

Kirby Canyon Recycling & Disposal Facility

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1. CI RECEIVED IN 01/27/2023 ENFORCEMENT:

January 25, 2023

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Attn: TRI and Air Section (ENF-2-1)

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SUBJECT: Combined Title V Semi-Annual and Partial 8-34 Annual Report 40 CFR 63

Subpart AAAA Semi-Annual Report

The Kirby Canyon Recycling & Disposal Facility 910 Coyote Creek Golf Drive, San Jose, CA 95037

Facility Number A1812

Dear Sir or Madam:

The Kirby Canyon Recycling & Disposal Facility (KCRDF) is pleased to submit the attached Combined Title V Semi-Annual and Partial 8-34 Annual Report for the period of July 1, 2022, through December 31, 2022, to the Bay Area Air Quality Management District (BAAQMD) and the United States Environmental Protection Agency (USEPA), Region IX. As required by 40 Code of Federal Regulations (CFR) Part 63 Subpart AAAA, the Semi-Annual Startup, Shutdown and Malfunction (SSM) Report is also enclosed. The Combined Title V Semi-Annual and Partial 8-34 Annual Report satisfies the requirements of the Title V Permit listed in 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

Enrique Perez

Responsible Official

Paul Enrique Perez

Attachments:

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

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

For the Kirby Canyon Recycling & Disposal Facility 910 Coyote Creek Golf Drive San Jose, California 95037 Facility Number A1812 July 1, 2022, through December 31, 2022

Submitted on: January 25, 2023

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
75 Hawthorne Street
San Francisco, CA 94105
Attn: Director Enforcement Division, TRI & Air Section (ENF-2-1)

Prepared by:



Kirby Canyon Recycling & Disposal Facility

TABLE OF CONTENTS

1		INTRODUCTION	3
	1.1	Purpose	3 3
	1.2	Record Keeping and Reporting	3
	1.3	Report Preparation	3
2		SEMI-ANNUAL MONITORING REPORT	4
	2.1	Collection System operation (BAAQMD 8-34-501.1 & §60.757(f)(4))	5
		.1 Collection System Downtime	5
	2.1	.2 Well Start-Up and Disconnection Log	5
	2.2	Emission Control Device Downtime (BAAQMD 8-34-501.2 & §60.757(f) (3	3))
			5
	2.2	.1 LFG Bypass Operations (§60.757(f)(2))	6
	2.2	.2 Key Emission Control Operating Parameters (BAAQMD 8-34-501.11 & 8-	
		34-509)	6
	2.3	Temperature Monitoring Results (BAAQMD 8-34-501.3, 8-34-507, &	
		§60.757(f)(1))	6
	2.4	Monthly Cover Integrity Monitoring (BAAQMD 8-34-510)	7
	2.5	Less than Continuous Operation (BAAQMD 8-34-501.5)	7
	2.6	Surface Emissions Monitoring (BAAQMD 8-34-501.6, 8-34-506, &	
		§60.757(f)(5))	7
	2.7	Component Leak Testing (BAAQMD 8-34-501.6 & 8-34-503)	8
	2.8	Solid Waste Placement Records (BAAQMD 8-34-501.7)	8
	2.9	Non-degradable Waste Acceptance Records (BAAQMD 8-34-501.8)	9
		Wellhead Monitoring Data (BAAQMD 8-34-501.4 & 8-34-505)	9
	2.1	0.1 Wellhead Deviations (BAAQMD 8-34-501.9 & §60.757(f)(1))	9
	2.11	Gas Flow Monitoring Results (BAAQMD 8-34-501.10, 8-34-508, &	
			10
	2.12		10
	2.13		11
	2.14	•	11
	2.15	•	11
	2.16	the state of the s	11
	2.17	Compliance with Title V Permit Cond. No. 25872	12
3			13
	3.1	A-12 Flare Performance Test Results (BAAQMD 8-34-412)	13

3.2	Compliance with §60.757(g)(1)	14
3.3	Compliance with §60.757(g)(2)	14
3.4	Compliance with §60.757(g)(3)	15
3.5	Compliance with §60.757(g)(4)	15
3.6	Compliance with §60.757(g)(5)	15
3.7	Compliance with §60.757(g)(6)	15
4	START-UP, SHUTDOWN, MALFUNCTION REPORT	17
4.1	SSM Report for the Collection and Control Systems at the KCRDF	17

LIST OF TABLES

- Table 2-1 Semi-Annual Report Requirements
- Table 2-2 Solid Waste Placement
- Table 2-3 Total LFG Flow A-12 Flare July 1, 2022, through December 31, 2022
- Table 2-4 Condensate Injection Rates
- Table 3-1 Performance Test Requirements
- Table 3-2 A-12 Flare Performance Test Results February 23, 2022

<u>list of APPENDICES</u>

APPENDIX A – Landfill Gas Collection System Site Map

APPENDIX B – Flare SSM Log and GCCS Downtime Report

APPENDIX C – Wellfield SSM Log

APPENDIX D – Flare Temperature Deviation/ Inoperative Monitor/ Missing Data Reports

APPENDIX E – Cover Integrity Monitoring Reports

APPENDIX F – Surface Emissions Monitoring Reports

APPENDIX G – Component Leak Check Reports

APPENDIX H – Monthly Solid Waste Placement Totals

APPENDIX I – Wellfield Monitoring Logs

APPENDIX J - BAAQMD Correspondence

APPENDIX K – Wellfield Deviation Log

APPENDIX L – Monthly Landfill Gas Flow Rates

APPENDIX M – Monthly Condensate Injection Logs

APPENDIX N – Gas Migration Monitoring Reports

APPENDIX O – A-12 Flare February 23,2022 Performance (Source) Test Summary

APPENDIX P – A-12 Flare 12- Month Sulfur Dioxide Emissions Log

1 INTRODUCTION

1.1 Purpose

This document is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report for the Kirby Canyon Recycling & Disposal Facility (KCRDF), pursuant to Title V Permit Standard Condition 1.F and Condition Number 1437 Part 16. This Combined Report satisfies the requirements of Regulation 8, Rule 34, Section 411 of the Bay Area Air Quality Management District (BAAQMD) and Title 40 Code of Federal Regulations (CFR) Part 60 Subpart CC, Emission Guidelines (EG) for municipal solid waste (MSW) landfills. This Combined Report meets the requirements of Title V Standard Condition 1.F, BAAQMD Regulation 8-34-411, and 40 CFR §60.757(f) and 40 CFR part 62, Subpart F and OOO and covers compliance activities conducted from July 1, 2022, through December 31, 2022. During the timeframe included in this report from July 1, 2022, through December 31, 2022, 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 23, 2022. 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 23, 2022, Performance Test Report results for the A-12 Flare are included in Appendix O of the Combined Report.

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

1.2 Record Keeping and Reporting

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

1.3 Report Preparation

This Combined Report has been prepared by the KCRDF.

2 SEMI-ANNUAL MONITORING REPORT

In accordance with the KCRDF Title V Permit Standard Condition 1.F; Condition 1437, Part 16; BAAQMD Regulation 8-34-411 and 40 CFR §60.757(f), this report is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report that is required to be submitted by the KCRDF. The report contains monitoring data for the operation of the landfill gas collection and control system (GCCS). The operational records have been reviewed and summarized. The timeframe included in this report is July 1, 2022, through December 31, 2022. 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
	All collection system downtime, including individual well shutdown times and the reason for the shutdown.	Section 2.1, Appendices B & C
900.757(1)(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
	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 remonitoring, and the re-monitored concentration in ppmv.	Section 2.6 & 2.7,
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
	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
	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.	
§60.757(f)(6)	The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), (c)(4) of §60.755.	Section 2.13
§60.10 (d)(5)(i)	Start-up, Shutdown, and Malfunction Events	Section 4, Appendices B & C
§63	Subpart AAAA	Section 2.10

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

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

2.1.1 Collection System Downtime

During the period covered in this report, the landfill GCCS was not shut down for more than five days on any one occasion. The total GCCS Downtime for the reporting period of July 1, 2022, through December 31, 2022, is 93.5 hours. The downtime for the 2022 calendar year is 146.8 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 was one (1) Well SSM event 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 2022 calendar year (January 1, 2022, through

December 31, 2022) is 146.8 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 reportable compliance activity (RCA) notifications for flare shutdown event caused by one unplanned utility power interruption caused by PG&E enhanced power line safety settings and one planned maintenance shutdown for bird nest removal on September 1, 2022. RCA numbers 08L39 and 08L40 were assigned by BAAQMD. KCRDF also submitted the Title V 10 and 30-day letter report and 30-day written follow-up report on September 7, 2022. 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 1,483°F on a three-hour average basis, while in operation during the other reporting periods, pursuant to the limits established during the February 23, 2022, Performance Tests.

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

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

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

- July 25, 2022
- August 1, 11, and 24, 2022
- September 2 and 13, 2022
- October 6 and 18, 2022
- November 9 and 11, 2022
- December 6, 7, and 21, 2022

During the monthly monitoring events for this reporting period, it was noted that there were locations with surface cracks, seeps, and exposed waste. Corrective actions and repairs were completed at all the locations within the same month, by adding soil and compacting. See Appendix E, Cover Integrity Monitoring Reports for repair details.

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

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

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

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

- Third Quarter 2022 August 3, 2022
- Fourth Quarter 2022 October 26 and December 20, 2022

A Thermo Scientific Toxic Vapor Analyzer 1000 (TVA1000) flame ionization detector (FID) was used to perform the SEM during the Third and Fourth Quarter 2022 events. The landfill surface was monitored along the path delineated on the SEM walking path map. Any areas suspected of having emission problems by visible observations were also monitored. Immediately prior to the Third and Fourth Quarter 2022 monitoring events, the monitoring equipment was calibrated using zero air and 500 parts per million by volume (ppmv) methane (CH₄) calibration gas.

The Third Quarter 2022 routine SEM was performed on August 3, 2022, and five (5) exceedances (FID readings greater than 500 ppm CH₄ above background measurements) were detected. The ten-day re-monitoring event was conducted on August 4, 2022, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on August 29, 2022, and no exceedances were detected.

The Fourth Quarter 2022 SEM was performed on October 26 and December 20, 2022, and three (3) exceedances (FID readings greater than 500 ppm CH₄ above background measurements) were detected on October 26, 2022. Corrective actions were completed. The ten-day re-monitoring event was conducted on October 27, 2022, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on November 21, 2022, and no exceedances were detected. The Third and Fourth Quarter 2022 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:

- Third Quarter 2022 August 3, 2022
- Fourth Quarter 2022 October 26, 2022

A Thermo Scientific TVA1000 FID was used to perform both the Third and Fourth Quarter 2022 component leak testing events. No exceedances of 1,000 ppm were identified during the Third and Fourth Quarter 2022 monitoring events.

Appendix G contains the Quarterly Component Leak Check Monitoring Reports.

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

The solid waste placement records were reviewed for the timeframe of July 1, 2022, through December 31, 2022. The current waste-in-place figure includes solid waste placed in the landfill through December 31, 2022. A table of monthly totals for the reporting period is provided in Appendix H. The total waste accepted and placed at the KCRDF landfill did not exceed the 2,600 ton-per-day limit during the reporting period, pursuant to Title V Permit Condition Number 1437, Part 1a. The current waste-in-place tonnage listed below did not exceed the 19.84 million tons limit as required in the Title V Permit Condition Number 1437, Part 1b. Table 2-2 summarizes the solid waste placement records for the reporting period.

Table 2-2 Solid Waste Placement

Waste Placement	Total Waste Landfilled Excluding Cover
July 1, 2022, through December 31, 2022	125,675 tons
Current Waste-In-Place as of December 31, 2022	Approximately 8.32 Million tons

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

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

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

Wellhead monitoring was performed on a monthly basis pursuant to BAAQMD Regulation 8-34-505. Effective September 27, 2021, the site began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. The well readings for July 1, 2022, through December 31, 2022, 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 (O₂) concentration in each wellhead shall be less than 5 percent (%) by volume.

The wellhead monitoring was performed on the following dates:

- July 1, 5, and 6, 2022
- August 1, 2, 3, 29, and 31, 2022
- September 2, 7, 8, and 9, 2022
- October 3, 4, and 5, 2022
- November 1, 2, 4, 7, and 17, 2022
- December 2, 5, 7, 9, and 12, 2022

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

Please refer to the Wellfield Deviation Log, included in Appendix K, for exceedance records for the reporting period of July 1, 2022, through December 31, 2022. 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 were 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 and calibrated pursuant to the manufacturer's recommendations. The flare flow meter meets the requirements of BAAQMD Regulation 8-34-508 by recording fuel flow at least every fifteen (15) minutes. Appendix D contains the specific details. The flow data for the flare are available for review at the KCRDF. Appendix L contains a summary of the monthly LFG flow rates and heat input for the flare.

Table 2-3 below is a summary of the LFG flow from July 1, 2022, through December 31, 2022, for the A-12 Flare. The A-12 Flare did not exceed the annual heat input rate of 1,087,700 million British Thermal Units (MMBTU), pursuant to Title V Permit A1812 Condition Number 1437, Part 8. The A-12 Flare did not exceed the permitted daily limit of 2,980 million British Thermal Units (BTU) for the duration of this event.

Table 2-3 Total LFG Flow A-12 Flare – July 1, 2022, through December 31, 2022

Emission Control Device	Average Flow (scfm)	Methane (%)	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Heat Input (MMBTU)
A-12 Flare	1,601	44.3	417,624,888	185,146,477	187,553

scfm = standard cubic feet per minute CH₄ = methane % = percent scf = standard cubic feet *Methane concentration from February 23, 2022, Source Test for the A-12 Flare.

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

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

Table 2-4 summarizes the condensate injection rate and 12-month (consecutive) throughput in gallons for July 1, 2022, through December 31, 2022. Per Title V Permit A1812 Condition Number 1437 Part 14, the 12-month rolling average is below the permitted condensate injection limit of 2.0 million gallons per year. The monthly condensate injection logs are included in Appendix M.

Table 2-4 Condensate Injection Rates

Month	Average Condensate Injection Rate (gpm)	Monthly Condensate Injection Throughput (gallons)	Condensate Injection Throughput 12-Month Total (gallons)
July 2022	2.4	55,526	810,481
August 2022	2.1	48,980	803,659

Month	Average Condensate Injection Rate (gpm)	Monthly Condensate Injection Throughput (gallons)	Condensate Injection Throughput 12-Month Total (gallons)
September 2022	2.0	56,711	800,529
October 2022	2.0	68,588	792,232
November 2022	1.9	70,331	782,931
December 2022	1.9	81,720	784,523

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 or started pursuant to Title V Permit Condition 1437 Part 6.

As of December 31, 2022, the GCCS system consists of 78 vertical wells, 0 horizontal collectors, and 3 leachate collection risers (LCRS).

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

A total of 11,097.4 tons of contaminated soil containing volatile organic compounds (VOCs) greater than 50 parts per million (ppm) was received during the reporting period. Low-VOC soil (containing less than 50 ppm of VOCs) was received during the reporting period. Required records of soil acceptance are available for review at the KCRDF.

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

Diesel Engine S-8 (the diesel engine for the portable compressor) is required to be operated less than 1,290 hours during any consecutive 12-month period. S-8 operated a total of 92 hours during the 12-month period, January 1, 2022, through December 31, 2022. S-8 operated a total of 43 hours during the 6-month reporting period, July 1, 2022, through December 31, 2022. S-8 used a total of approximately 165 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 SO₂ (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 February 23, 2022) TRS value was used to calculate the monthly SO₂ emissions in tons.

The SO₂ emission did not exceed limit during the reporting period. The SO₂ 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 23, 2022, pursuant to Title V Permit A1812 Condition Number 1437 Part 12. The Performance Test Report for the A-12 Flare indicates that the flare is in compliance with BAAQMD Regulation 8-34-301.3. As required by BAAQMD Regulation 8-34-301.3, the flare meets the non-methane organic compound (NMOC) emission rate of less than 30 ppmv. Pursuant to Title V Permit A1812 Condition Number 1437 Part 10, the A-12 Flare meets the oxides of nitrogen (NO_x) emission concentration limit of less than 0.06 pounds (lbs)/MMBTU. The A-12 Flare meets the carbon monoxide (CO) emission concentration limit of less than 0.3 lbs/MMBTU, pursuant to Title V Permit A1812 Condition Number 1437 Part 11. Table 3-2 shows the results of the A-12 Flare Performance Test, averaged from six test runs - three with condensate on, and three with condensate off.

The A-12 2022 Source Test Report was submitted to the BAAQMD on April 6, 2022, within 60 days of the test date. The source test results for the above control device is included in Appendix O.

Table 3-2 A-12 Flare Performance Test Results – February 23, 2022

Condition	Flare (Average Condensate ON	Results	8-34-301.3 limit	Compliance Status
NMOC (ppmv @ 3% O ₂ , as CH ₄)	3.84	4.17	30 ppmv	In Compliance
NO _x , lbs/MMBTU	0.0474	0.040	0.06	In Compliance
CO, lbs/MMBTU	0.0044	0.0061	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 1, 2022, of the landfill GCCS showing the positioning of vertical wells, horizontal collectors, and other LFG extraction devices is included in Appendix A.

3.3 Compliance with §60.757(g)(2)

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

The KCRDF GCCS has historically provided LFG wells and collectors spaced in accordance with standard industry practices. The A-12 flare, LFG extraction wells, and piping are more than adequate to move the current LFG flow rate. KCRDF will continue to add additional LFG control capacity as necessary with the approval of BAAQMD. The installed collector density appears more than adequate for controlling surface emissions, based on continuous compliance and operational experience.

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

Demonstrating Compliance with §60.757(g)(2)

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

Compliance with 40 CFR §60.757(g)(2) is maintained by performing quarterly SEM. Refer to Section 2.6, Surface Emissions Monitoring for information pertaining to the SEM results. These results show that the GCCS has sufficient coverage over the waste footprint. Combined LFG recovery for the reporting period was 1,601 scfm. The current A-12 flare system has the capacity to destroy ~ twice the actual recovery. Well monitoring data shows that adequate vacuum is available at all points in the wellfield, demonstrating that the piping network is sufficient to handle all extracted LFG.

3.4 Compliance with §60.757(g)(3)

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

There are no segregated areas or accumulations of asbestos material documented for the site in the GCCS Design Plan. Therefore, 40 CFR §60.757(g)(3) is not applicable.

3.5 Compliance with §60.757(g)(4)

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

Non-productive areas have not been excluded from the coverage of the GCCS. Therefore, 40 CFR §60.757(g)(4) is not applicable.

3.6 Compliance with §60.757(g)(5)

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

The A-12 Flare and blower system were installed in October and November 2007 and started up on December 3, 2007. The A-12 Flare and blower system is anticipated to be able to accommodate the expected LFG flow rate over the life of the landfill.

3.7 Compliance with §60.757(g)(6)

"The provisions for the control of off-site migration."

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

- Third Quarter 2022 September 21, 2022
- Fourth Quarter 2022 October 18, 2022

All probes were in compliance with no detections above the 5.0 percent methane limit during the Third and Fourth Quarter 2022 monitoring events. There were no LFG migration occurrences at the KCRDF, and no areas of concern were identified during the Third and Fourth Quarter 2022 monitoring events. The LFG migration monitoring and building monitoring results for both quarterly events are included in Appendix N.

Demonstrating Compliance with §60.757(g)(6)

"The provisions for the control of off-site migration."

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

4 START-UP, SHUTDOWN, MALFUNCTION REPORT

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

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

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

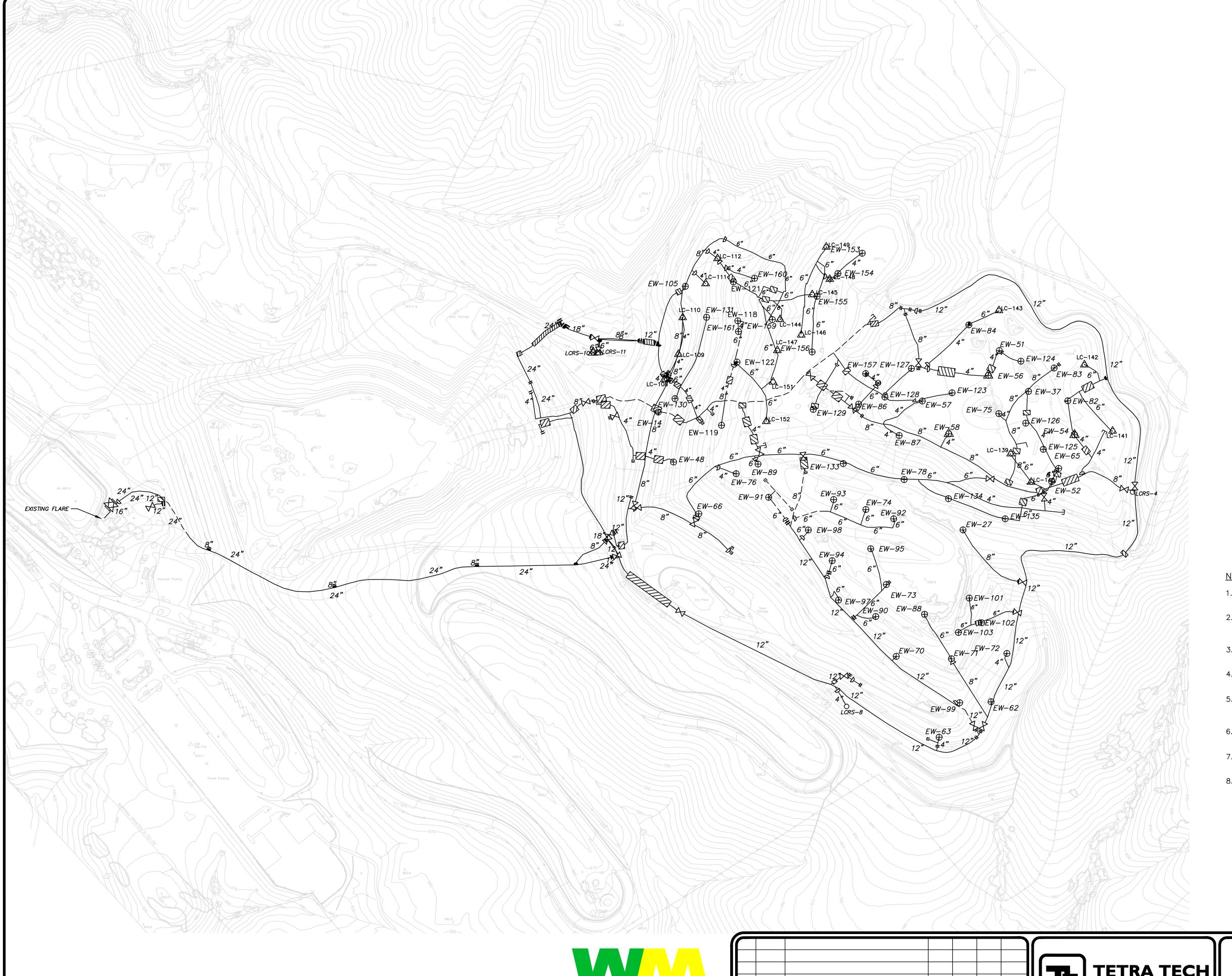
- During the reporting period, twenty (20) A-12 Flare SSM events occurred. The A-12 Flare shut down and restarted during the reporting period due to the reasons noted in the Flare SSM Log, located in Appendix B.
- During the reporting period, one (1) wellfield SSM event occurred. Details are included in the Wellfield SSM Log, located in Appendix C.
- During the reporting period, no monitoring/recorder equipment SSM events occurred.
- In all twenty-one (21) 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)).

1	certify	tho	fol		win	~
•	CCILIIY	uic	101	10	yy	y.

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

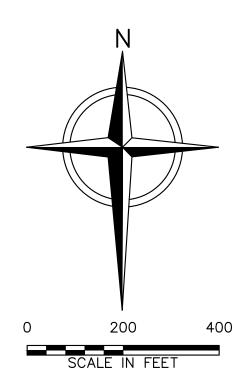
Paul Enrique Perez	01.25.2023
Signature of Responsible Official	Date
Enrique Perez	
Name of Responsible Official	

APPENDIX A LANDFILL GAS COLLECTION SYSTEM SITE MAP



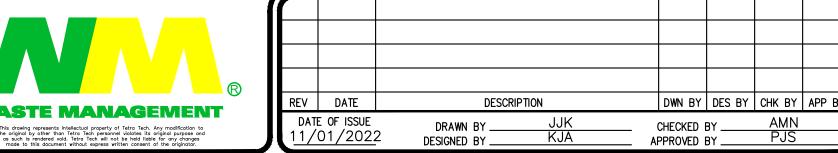
<u>LEGEND</u>

1400——	EXISTING	10' CONTOUR
12"	EXISTING	ABOVEGROUND PIPING
<u>12"</u>	EXISTING	BELOWGROUND PIPING
_ · _ · _ · _	EXISTING	HORIZONTAL COLLECTOR
⊕ <i>EW−3</i>	EXISTING	LFG EXTRACTION WELL
<u> </u>	EXISTING	LOCAL CONTROL WELL
\otimes	EXISTING	REMOTE WELLHEAD
O H6	EXISTING	HORIZONTAL COLLECTOR WELLHEAD
- ⋈-	EXISTING	CONTROL VALVE
—11	EXISTING	BLIND FLANGE
-11-	EXISTING	FLANGE CONNECTION
— D—	EXISTING	REDUCER FITTING
	EXISTING	ROAD CROSSING
O RISER	EXISTING	RISER
∃	EXISTING	CAP ON EXISTING PIPE



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

ISSUED FOR CONSTRUCTION





KIRBY CANYON RECYCLING AND DISPOSAL FACILITY SAN JOSE, CALIFORNIA 2022 GCCS IMPROVEMENTS

PROJECT NO. 220056

SHEET NO.

AS-BUILT SITE PLAN

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

Part	AFFECTED EQUIPMENT	T: A-12 Flare						Completed	By: F	Rajan Phadnis/Tino Robles							
Control of the Cont	KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA																
Control Cont	SSMP REPORT - From .	July 1 2022 through De	ecember 31, 2022														
Control Cont	Identify Flare & Check		(2) End of Event	(3) Duration	(4) Duration	(5) Cause or Reason	(6) Applicable 8-34 Evernation	(7) Date Form	1		(9) Procedures Used	10) Did Steps Taken Vary	(1	1) Did Event Cause Any	(12) Describe Emission Standard(s) Exceeded		
March Marc		,	Date and Time	of Event (Hours)	Shutdown (Hours)	(o) dado or redoor		Completed	((Startup and Shutdown Events Only)	(b) i rooddardo obed	From Section 9?	Em	ission Limit Exceedance	(12) Besonbe Emission etandard(e) Executed		
The control of the	Component: A-12 Flare								x	Manual (Go to Section 8)	Procedure	Yes (Go to Section 10)		Yes (Go to Section 11)	i l		
Control of the cont		7/07/22 08:42	7/07/22 08:46	0.07		<u> </u>		7/7/2022	\vdash						i		
Manufacture	Malfunction Event				3.1	Flare was shutdown to	118: Construction Activities			Automatic (Go to Section 10)		No (Stop)		No (Stop)	i		
March Marc	Component: A-12 Flare				3.1				х	Manual (Go to Section 8)		Yes (Go to Section 10)		Yes (Go to Section 11)			
March 1967 March 1967 March 1967 March 1968 Mar	x Startup Event	7/07/22 11:50	7/07/22 11:56	0.10				7/7/2022	\vdash				-		i l		
Property of the content of the con						 				Automatic (Go to Section 10)	1 10 4	(No (Stop)		No (Stop)	i l		
Property of the content of the con	Component: A-12 Flare						X 113: Inspection and Maintenance		v	Manual (Co to Section 9)		Voc (Co to Section 10)		Voc. (Co to Section 11)			
Marchan Care 1985	Startup Event	7/18/22 07:52	7/18/22 07:56	0.07			116: Well Raising	7/18/2022		inditidal (G0 to Section 6)		res (do to decitor 10)		res (do to decitor 11)	4		
Commany Comm	x Shutdown Event					Flare was shutdown to install -	117: Gas Collection			Automatic (Go to Section 10)	1 to 3	(No (Stop)		No (Stop)	i		
Teacher Process Proc					7.7	valve on main header. Flare			l								
March Marc	x Startup Event	7/40/00 45:00	7/40/00 45:40	0.40		was inspected and restarted.		7/40/2022	*	Manual (Go to Section 8)	Procedure	Yes (Go to Section 10)		Yes (Go to Section 11)	i		
Control Cont		7/18/22 15:30	7/18/22 15:42	0.10				//10/2022	П	Automatic (Go to Section 10)	1 to 4	(No (Stop)		No (Stop)	i l		
State Part									\vdash						<u> </u>		
Control Part Cont	Startup Event					 	116: Well Raising		X	Manual (Go to Section 8)	Procedure	Yes (Go to Section 10)		Yes (Go to Section 11)	i l		
Part	x Shutdown Event	7/21/22 08:20	7/21/22 08:24	0.07		F1		7/21/2022	\vdash	Automatic (Co to Section 10)	1 to 3	/ No (Stop)		No (Stop)	i		
Marchane Part Par					7.1		118: Construction Activities			Autorialic (Go to Section 10)		(No (Stop)		No (Stop)			
Part	Component: A-12 Flare						X 113: Inspection and Maintenance		x	Manual (Go to Section 8)	D	Yes (Go to Section 10)		Yes (Go to Section 11)	i		
Mathematic Paper 1/22/20 74	Shutdown Event	7/21/22 15:28	7/21/22 15:34	0.10				7/21/2022	\vdash				_		i		
Company Comp	Malfunction Event									Automatic (Go to Section 10)		(No (Stop)		No (Stop)	i l		
Part	Component: A-12 Flare						X 113: Inspection and Maintenance		x	Manual (Go to Section 8)		Yes (Go to Section 10)		Yes (Go to Section 11)			
Contact Service Contact Se		7/22/22 07:46	7/22/22 07:50	0.07		FI		7/22/2022	H					(1		
Companies Comp										Automatic (Go to Section 10)	1 to 3	(No (Stop)		No (Stop)	i l		
Section of the content of the cont	Component: A-12 Flare				8.5				- L			V (0 1 0 1 10)		1/ (0 / 0 / 1/)	i		
Machine Part	x Startup Event	7/22/22 16:16	7/22/22 16:22	0.10		and restarted.		7/22/2022		Manual (Go to Section 8)		Yes (Go to Section 10)		Yes (Go to Section 11)	i		
Composed 1.5 Time Processed 1.5 Time		17EEEE 10.10	77222 10:22	0.10			117: Gas Collection	17222022		Automatic (Go to Section 10)	1 to 4	(No (Stop)		No (Stop)	i		
Simple Server 172022 1734 17202 1736 1720222 1736 1720222 1736 1720222 1736 1720222 1736 1720222 1736 1720222 1736 1720222									-								
Part of the property of the	Startup Event			0.07		<u> </u>			x	Manual (Go to Section 8)	Procedure	Yes (Go to Section 10)		Yes (Go to Section 11)	i I		
Manufactor Service Manufac	x Shutdown Event	7/22/22 17:24	7/22/22 17:28	0.07		Flore was shutdown during	117: Gas Collection	7/22/2022	\vdash	Automatic (Go to Section 10)		(No (Stop)		No (Ston)	i		
Manual Column Manual Colum					0.4	test on the new blower. Flare			\vdash	Automatic (Co to occion 10)		(No (Glop)		no (otop)			
Composition Function Functio								7/22/2022	x	Manual (Go to Section 8)	Procedure	Yes (Go to Section 10)		Yes (Go to Section 11)	i		
Manufacture Event Conground: A Filter Street C		7/22/22 17:46	7/22/22 17:52	0.10		<u> </u>			\vdash					11 (0)	i		
Simple Field Manufaction Field Manufacti	Malfunction Event									Automatic (Go to Section 10)	'	No (Stop)		No (Stop)	i		
## Secretary Components (Part 1) Part 200 Part 200									x	Manual (Go to Section 8)		Yes (Go to Section 10)		Yes (Go to Section 11)			
Manufaction Event Strategy	Startup Event	8/15/22 07:30	8/15/22 07:34	0.07				8/15/2022	H						1		
Composed A 17 Filter Service	X Shutdown Event					Flare was shutdown to replace				Automatic (Go to Section 10)	1 to 3	(No (Stop)		No (Stop)	i		
Secretary Secr	Component: A-12 Flare				2.2		X 113: Inspection and Maintenance		V .	Manual (Co to Section 9)		Voc (Co to Section 10)		Voc. (Co to Section 11)			
Manual Class Section 19 10 4 15 10 4 15 10 4 15 10 4 15 10 10 10 10 10 10 10	x Startup Event	8/15/22 09:40	8/15/22 09:46	0.10		inspected and restarted.	116: Well Raising	8/15/2022		Maridal (Go to Section 6)		res (Go to Section 10)		res (Go to Section 11)	i		
Composed A 17 Flare Surface Composed A 17 Flare Composed A 17 Flare Surface Composed A 17 Flare Surface Composed A 17 Flare Surface Composed A 17 Flare Composed A 17 Flare Surface Composed A 17 Flare Surface Composed A 17 Flare Surface Composed A 17 Flare	Shutdown Event									Automatic (Go to Section 10)	1 to 4	(No (Stop)		No (Stop)	i l		
Starting Fevert Starting F	Component: A 12 Flore								\vdash				_				
## Secretary Component A.12 First Sharkform Event Component A.12 First Sharkform Even		0/45/00 00:54	0/45/00 00:50	0.07			ı P		9/15/2022		Manual (Go to Section 9)	Procedure No.	Yes (Go to Section 11)	'	Yes (Go to Section 12)	i l	
Second Composed Com		8/15/22 09:54	8/15/22 09:58	0.07		Flare shutdown during startup	Flare shutdown during startup			0/13/2022	×	Automatic (Go to Section 11)	1 to 3	No (Stop)	×	No (Ston)	i
Section Procedure No. Pr					0.2	sequence. Flare was inspected -			<u> ^</u>				^				
Shutdown Event Shut	Component: A-12 Flare					and restarted.			x	Manual (Go to Section 9)	Procedure No.	Yes (Go to Section 11)	1	Yes (Go to Section 12)	i l		
Martinectic Event Component A.12 Flave Startup Event S	Shutdown Event	8/15/22 10:04	8/15/22 10:10	0.10		<u> </u>		8/15/2022	\vdash	A. d tl - (O - t - O tl 44)	—	/ N- (O+)		N - (Ot)	i l		
Startup Event Malfunction Event Malfunct	Malfunction Event									Automatic (Go to Section 11)		No (Stop)		No (Stop)	i		
Startup Event Startup Even	Component: A-12 Flare						X 113: Inspection and Maintenance		П	Manual (Go to Section 9)	Donardon No	Yes (Go to Section 11)		Yes (Go to Section 12)			
Mailundon Event	Startup Event	8/15/22 10:08	8/15/22 10:12	0.07				8/15/2022	\vdash								
Component: A-12 Filter Surfus Perint Sur	Malfunction Event						117: Gas Collection 118: Construction Activities		X	Automatic (Go to Section 11)	1 10 3	No (Stop)	X	No (Stop)	i l		
X Struty Event Shuldown Event Malfunction Event Shuldown Event Malfunction Event Shuldown Event Malfunction Event Shuldown Event Struty Event Shuldown Eve	Component: A-12 Flare				0.1	sequence. Flare was inspected	X 113: Inspection and Maintenance		v	Manual (Go to Section 9)		Vac (Co to Section 11)		Vec (Co to Section 12)			
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Component: A-12 Flare Startup Event Star										Automatic (Go to Section 11)	1 to 4	(No (Stop)		No (Stop)	i		
Shutdown Event Shut			1	<u> </u>					+								
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Mathurction Event Sturtup	x Shutdown Event	8/25/22 07:08	8/25/22 07:12	0.07				0/23/2022	X	Automatic (Go to Section 11)	1 to 3	No (Stop)	X	No (Stop)	i l		
Shutdown Event Shut					0.6	temperature alarm. Louvers	118: Construction Activities						1				
Startup Event Maffunction Event Maffunct	Component: A-12 Flare								×	Manual (Go to Section 9)	Procedure No.	Yes (Go to Section 11)	1	Yes (Go to Section 12)	i		
Martinuction Event Component. A-12 Flare Shuffown during PGSE Shuffown Event Martinuction Event Component. A-12 Flare Martinuction Event Component. A-12 Flare Martinuction Event Shuffown Event Martinuction Event Component. A-12 Flare Martinuction Event Component. A-12 Flare Martinuction Event Shuffown Event Martinuction Event Shuffown Event Martinuction Event Component. A-12 Flare Martinuction Event Shuffown Event	Shutdown Event	8/25/22 07:42	8/25/22 07:48	0.10		moposida and restanted.		8/25/2022	\vdash	Automatic (Co to Section 11)	1 to 4	/ No (Sten)		No (Cton)	i l		
Struttop Event Struttop Event Struttop Event Struttop Event Multiruction Event Mu	Malfunction Event						118: Construction Activities			Automatic (Go to Section 11)		No (Stop)		No (Stop)			
Shutdown Event 9/01/22 08:24 9/01/22 08:28 9/01/22 08:						Flare shutdown during PG&F	X 113: Inspection and Maintenance		х	Manual (Go to Section 8)	December	Yes (Go to Section 10)		Yes (Go to Section 11)			
Maffunction Event Shutdown Event S		9/01/22 08:24	9/01/22 08:28	0.07				9/1/2022	\vdash		l				i		
Component: A-12 Flare Startup Event Shutdown Event 9/01/22 09:44 9/01/22 09:50 0.10 1.3 a Segleged RCA Number (01.59 Flare was connected to emergency generators. Flare was inspected and restarted. 1.5 sarcy (2.50 to Section 10) 1.5 sar										Automatic (Go to Section 10)	1 10 3	(No (Stop)		No (Stop)	i l		
X Strutp Event Struttown Event 9/01/22 09:44 9/01/22 09:50 0.10 Struttown Event 9/01/22 09:50 Struttown Event	Component: A-12 Flare			1	1.3		X 113: Inspection and Maintenance		v	Manual (Go to Section 8)		Yes (Go to Section 10)		Yes (Go to Section 11)			
Shildown Event Shil				1	1				\Box	manaa (oo ib deciion b)		100 (00 to 000001110)		(CO to obtain 11)			
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Stratup Event Shutdown Event Shutd			1		-				\vdash			1	\vdash				
X Shutdown Event 9/01/22 09-96 9/01/22 10:00 9/01/22							116: Well Raising		x	Manual (Go to Section 8)	Procedure	Yes (Go to Section 10)		Yes (Go to Section 11)	i I		
Midfunction Event		9/01/22 09:48	9/01/22 09:52	0.07				9/1/2022	\vdash	Automotic (Co. to Continue 10)		N= (0+=)		No (Care)	i l		
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		9/01/22 10:00	9/01/22 10:06	0.10		iiispected and restarted.		9/1/2022	\vdash	•		+ "	1		i I		
				1		<u> </u>			1 1	Automatic (Go to Section 10)	1 10 4	No (Stop)		No (Stop)	į l		
	,												•				

KCRDF July 1-Dec 31-2022 SAR

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

Completed By: Rajan Phadnis/Tino Robles

AFFECTED EQUIPM	IENT: A-12 Flare							Completed	Ву:	Rajan Phadnis/Tino Robles						
KIRBY CANYON RE	CYCLING & DISPOSAL FAC	CILITY, San Jose, CA														
	om July 1 2022 through De															
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	6) Applicable 8-34 Exemption	(7) Date Form Completed	1	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10	0) Did Steps Taken Vary From Section 9?) Did Event Cause Any ssion Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-12 Flare Startup Event	9/01/22 10:30	9/01/22 10:34	0.07				113: Inspection and Maintenance 116: Well Raising	9/1/2022	х	Manual (Go to Section 8)	Procedure		Yes (Go to Section 10)		Yes (Go to Section 11)	
x Shutdown Event Malfunction Event	5/01/22 10:00	0/01/22 10:04		0.4	Flare shutdown to switch back to utility power. Flare was	118: Construction Activities			Automatic (Go to Section 10)	1 to 3	х	No (Stop)		No (Stop)		
Component: A-12 Flare x Startup Event	9/01/22 10:52	9/01/22 10:58	0.10		inspected and restarted.		113: Inspection and Maintenance 116: Well Raising 117: Gas Collection	9/1/2022	×	Manual (Go to Section 8)	Procedure 1 to 4		Yes (Go to Section 10)	_	Yes (Go to Section 11)	
Shutdown Event Malfunction Event Component: A-12 Flare							118: Construction Activities 113: Inspection and Maintenance		╙	Automatic (Go to Section 10)	1 10 4	Х	No (Stop)	4	No (Stop)	
Startup Event x Shutdown Event	9/01/22 12:52	9/01/22 12:56	0.07		Flare shutdown during PG&E power line maintenance to	^	116: Well Raising 117: Gas Collection	9/1/2022	ļ.,	Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)		Yes (Go to Section 12)	
Malfunction Event Component: A-12 Flare				0.6	remove birds nest. RCA was filed and was assigned RCA	X	118: Construction Activities 113: Inspection and Maintenance		X	Automatic (Go to Section 11) Manual (Go to Section 9)			No (Stop) Yes (Go to Section 11)	Х	No (Stop) Yes (Go to Section 12)	
x Startup Event Shutdown Event	9/01/22 13:30	9/01/22 13:36	0.10		Number 08L40. Flare was inspected after restart.		116: Well Raising 117: Gas Collection	9/1/2022	ŀ	Automatic (Go to Section 9)	Procedure No. 1 to 4	×	No (Stop)		No (Stop)	
Malfunction Event Component: A-12 Flare						Х	118: Construction Activities 113: Inspection and Maintenance		-	Manual (Go to Section 9)		^	Yes (Go to Section 11)	-	Yes (Go to Section 12)	
x Shutdown Event	9/01/22 13:34	9/01/22 13:38	0.07		Flare shutdown during startup		116: Well Raising 117: Gas Collection	9/1/2022	×	Automatic (Go to Section 11)	Procedure No. 1 to 3		No (Stop)	х	No (Stop)	
Malfunction Event Component: A-12 Flare				0.2	sequence. Flare was inspected and restarted.	Х	118: Construction Activities 113: Inspection and Maintenance		×	Manual (Go to Section 9)	Procedure No.		Yes (Go to Section 11)	+	Yes (Go to Section 12)	
x Startup Event Shutdown Event Malfunction Event	9/01/22 13:44	9/01/22 13:50	0.10				116: Well Raising 117: Gas Collection 118: Construction Activities	9/1/2022		Automatic (Go to Section 11)	1 to 4	х	No (Stop)	+	No (Stop)	
Component: A-12 Flare Startup Event						Х	113: Inspection and Maintenance 116: Well Raising		х	Manual (Go to Section 8)	Procedure		Yes (Go to Section 10)		Yes (Go to Section 11)	
x Shutdown Event Malfunction Event	10/01/22 06:12	10/01/22 06:16	0.07	3.2	Flare was shutdown during louver inspection and		117: Gas Collection 118: Construction Activities	10/1/2022		Automatic (Go to Section 10)	1 to 3	х	No (Stop)		No (Stop)	
Component: A-12 Flare x Startup Event	10/01/22 09:26	10/01/22 09:32	0.10	3.2	adjustments. Flare was inspected and restarted.	X	113: Inspection and Maintenance 116: Well Raising	10/1/2022	х	Manual (Go to Section 8)	Procedure		Yes (Go to Section 10)		Yes (Go to Section 11)	
Shutdown Event Malfunction Event	10/0 //22 00:20	10/01/22 00:02	0.10				117: Gas Collection 118: Construction Activities	10/1/2022		Automatic (Go to Section 10)	1 to 4	х	No (Stop)		No (Stop)	
Component: A-12 Flare Startup Event	10/12/22 09:38	10/12/22 09:42	0.07				113: Inspection and Maintenance 116: Well Raising 117: Gas Collection	10/12/2022	х	Manual (Go to Section 8)	Procedure 1 to 3		Yes (Go to Section 10)		Yes (Go to Section 11)	
x Shutdown Event Malfunction Event Component: A-12 Flare				0.6	Flare was shutdown to clean air filter. Flare was inspected		118: Construction Activities 113: Inspection and Maintenance		╙	Automatic (Go to Section 10)	1 10 3	х	No (Stop)	_	No (Stop)	
x Startup Event Shutdown Event	10/12/22 10:12	10/12/22 10:18	0.10		and restarted.	_	116: Well Raising 117: Gas Collection	10/12/2022	×	Manual (Go to Section 8)	Procedure 1 to 4		Yes (Go to Section 10)	+	Yes (Go to Section 11)	
Malfunction Event Component: A-12 Flare							118: Construction Activities 113: Inspection and Maintenance		+	Automatic (Go to Section 10) Manual (Go to Section 8)		Χ.	No (Stop) Yes (Go to Section 10)	+	No (Stop) Yes (Go to Section 11)	
Startup Event x Shutdown Event	11/29/22 02:56	11/29/22 03:00	0.07		Flare shutdown during CPU failure. New CPU was ordered		116: Well Raising 117: Gas Collection	11/29/2022	Ĥ	Automatic (Go to Section 10)	Procedure 1 to 3	х	No (Stop)		No (Stop)	
Malfunction Event Component: A-12 Flare				56.2	and replaced. Maintenance was performed on louvers,	Х	118: Construction Activities 113: Inspection and Maintenance		×	Manual (Go to Section 8)		^	Yes (Go to Section 10)		Yes (Go to Section 11)	
x Startup Event Shutdown Event	12/01/22 11:08	12/01/22 11:14	0.10		KOP, air line and flowmeter. Flare was inspected and restarted.		116: Well Raising 117: Gas Collection	12/1/2022		Automatic (Go to Section 10)	Procedure 1 to 4	¥	No (Stop)		No (Stop)	
Malfunction Event Component: A-12 Flare					residited.		118: Construction Activities 113: Inspection and Maintenance	8/15/2022	_			^		4		
Startup Event x Shutdown Event	12/31/22 17:02	12/31/22 17:06	0.07				116: Well Raising 117: Gas Collection	37.02022	×	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)	
Malfunction Event Component: A-12 Flare			-	0.5	Flare shutdown due to low temperature alarm. Flare was inspected and restarted.	X	118: Construction Activities 113: Inspection and Maintenance	8/15/2022	×	Manual (Go to Section 11)			Yes (Go to Section 11)	^	Yes (Go to Section 12)	
x Startup Event Shutdown Event	12/31/22 17:30	12/31/22 17:36	0.10				116: Well Raising 117: Gas Collection		Ë	Automatic (Go to Section 11)	Procedure No. 1 to 4	х	No (Stop)	+	No (Stop)	
Malfunction Event Component: A-12 Flare						Х	118: Construction Activities 113: Inspection and Maintenance	8/15/2022	\vdash	Manual (Go to Section 9)	Dranadura Na	-	Yes (Go to Section 11)	+	Yes (Go to Section 12)	
x Shutdown Event Malfunction Event	12/31/22 17:34	12/31/22 17:38	0.07		Flare shutdown during startup		116: Well Raising 117: Gas Collection 118: Construction Activities		x	Automatic (Go to Section 11)	Procedure No. 1 to 3		No (Stop)	х	No (Stop)	
Component: A-12 Flare x Startup Event				0.3	sequence. Flare was inspected and restarted.		113: Inspection and Maintenance 116: Well Raising	8/15/2022	x	Manual (Go to Section 9)	Procedure No.		Yes (Go to Section 11)		Yes (Go to Section 12)	
Shutdown Event Malfunction Event	12/31/22 17:50	12/31/22 17:56	0.10				117: Gas Collection 118: Construction Activities			Automatic (Go to Section 11)	1 to 4	х	No (Stop)		No (Stop)	
Component: A-12 Flare Startup Event	12/31/22 17:54	12/31/22 17:58	0.07			Х	113: Inspection and Maintenance 116: Well Raising	8/15/2022		Manual (Go to Section 9)	Procedure No.		Yes (Go to Section 11)		Yes (Go to Section 12)	
x Shutdown Event Malfunction Event	12/3/1/22 17:34	12/3/122 17:30	0.07	0.2	Flare shutdown during startup sequence. Flare was		117: Gas Collection 118: Construction Activities		х	Automatic (Go to Section 11)	1 to 3		No (Stop)	х	No (Stop)	
Component: A-12 Flare x Startup Event	12/31/22 18:04	12/31/22 18:10	0.10	0.2	inspected and restarted.		113: Inspection and Maintenance 116: Well Raising	8/15/2022	х	Manual (Go to Section 9)	Procedure No.		Yes (Go to Section 11)		Yes (Go to Section 12)	
Shutdown Event Malfunction Event							117: Gas Collection 118: Construction Activities			Automatic (Go to Section 11)	1 to 4	Х	No (Stop)		No (Stop)	

TOTAL DOWNTIME From January 1 2022 through December 31, 2022 (HOURS):	
TOTAL DOWNTIME From July 1 2022 through December 31, 2022 (HOURS):	
TOTAL PERMITTED GCCS DOWNTIME FOR 1 YEAR (HOURS):	
TOTAL AVAILABLE RUNTIME From July 1 2022 through December 31, 2022 (HOURS):	
TOTAL RUNTIME From July 1 2022 through December 31, 2022 (HOURS):	4323.5
RUNTIME PERCENTAGE From July 1 2022 through December 31, 2022 (HOURS):	
SSM Counts :	20

KCRDF July 1-Dec 31-2022 SAR

(a) STANDARD OPERATING PROCEDURES

Shutdown

Procedure No. Procedure

Ensure that there are no unsafe conditions present, contact manager immediately 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.

<u>Procedure</u>
Ensure that there are no unsafe conditions present
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

Emergency step accession and date in section 1 of form above)

Observe that system achieves normal startup ranges for levels, pressures, and temperatures (Note time and date in Section 2 of form

Malfunction

3

EQUIPMENT	PURPOSE	MALFUNCTION	COMMON CALIEFE	PROCEDURE NOTYPICAL RESPONSE ACTIONS
EQUIPMENT	PURPOSE	EVENT	COMMON CAUSES	PROCEDURE NO1 YPICAL RESPONSE ACTIONS
LFG Collection and Control Sys	tem	LVENI		
Blower or Other Gas Mover	Applies vacuum to wellfield	Loss of LFG Flow/Blower	-Flame arrestor	Repair breakages in extraction piping
Equipment	to extract LFG and transport to control device	Malfunction	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	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)	Repair leaks or breaks in lines or wellheads Follow procedures for loss of LFG flowblower Repair blockages in collection piping 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, carthquake, 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	Check/repair temperature monitoring equipment Check/repair thermocouple Repair thermocouple Check/repair thermocouple Check/adjust air/fuel controls Check/adjust/repair flame sensor 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 chart recorder -Problems with thermocouple	Replace paper in chart recorder 40. Check/adjust/repair thermocouple

KCRDF Facility A1812 KCRDF July 1-Dec 31- 2022 SAR

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NOTYPICAL RESPONSE ACTIONS
LFG Collection and Control S	stem			
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 fue 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	50. Refill propane supply 51. Check/repair pilot sparking system

⁽b) For each permit limit exceedance complete an "SSM Plan Departure Form". Notify BAAQMD verbally or by fax within 2 working days after commencing the actions that an event inconsistent with the SSM Plan and which resulted in an exceedance of an applicable emission permit has occured. Follow up in writing to the agency within 7 working days after the end of the event.

KCRDF Facility A1812 KCRDF July 1-Dec 31- 2022 SAR

APPENDIX C WELLFIELD SSM LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: Rajan Phadnis/Tino Robles

	Kirby Canyon Recycling & Disposal Facility, San Jose, CA SMP REPORT - From July 1 2022 through December 31, 2022													
Identify Well & Check Applicable Event			(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	Form	(8	(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:LR08 Startup Event	10/10/22 12:05	10/19/22 13:07	0.03			113: Inspection and Maintenance 116: Well Raising	10/19/2022	х	Manual (Go to Section 9)	Procedure No.		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event Malfunction Event	10/19/22 13:03	10/19/22 13:07	0.00	23.0	Well offline for filling- as part of the new cell construction	X 117: Gas Collection 118: Construction Activities	10/13/2022		Automatic (Go to Section 11)	1 to 3	Х	No (Stop)	No (Stop)	
Well ID Number:LR08 X Startup Event	10/20/22 12:05	10/20/22 12:07	0.03	23.0		113: Inspection and Maintenance 116: Well Raising	10/20/2022	х	Manual (Go to Section 9)	Procedure No.		Yes (Go to Section 11)	Yes (Go to Section 12)	
Shutdown Event Malfunction Event	10/20/22 12:03	10/20/22 12:07	0.00			X 117: Gas Collection 118: Construction Activities	10/20/2022		Automatic (Go to Section 11)	1 to 4	х	No (Stop)	No (Stop)	

SSM Counts : 1

KCRDF Facility A1812

KCRDF Facility A1812

(a) STANDARD OPERATING PROCEDURES

Shutdown

<u>Shutdown</u>	
Procedure No.	<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	
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

Observe that system achieves normal startup ranges for levels, pressures, and temperatures (Note time and date in Section 2 of form above)

Initiate start sequence (Note time and date in section 1 of form above)

Malfunction

3

EQUIPMENT	PURPOSE	MALFUNCTION	COMMON CAUSES	PROCEDURE NOTYPICAL RESPONSE ACTIONS
		EVENT		
LFG Collection and Control Syst	tem		•	
Electron and Control Sysi 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)	Repair leaks or breaks in lines or wellheads Repair blockages in collection piping Repair settlement in collection piping Repair settlement in collection 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, carthquake, etc.) -Area-wide or local blackout or brown-out -Interruption in service (e.g. blown service fuse) -Electrical line failure -Breaker trip -Transformer 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

KCRDF Facility A1812 KCRDF July 1-Dec 31- 2022 SAR

EQUIPMENT	PURPOSE MALFUNCTION COMMON CAUS EVENT COMMON CAUS		COMMON CAUSES	PROCEDURE NOTYPICAL RESPONSE ACTIONS
LFG Collection and Control Sy	ystem			
LFG Control Device	Combusts LFG	Loss of Flame	-Problems/failure of thermocouple -Loss/change of LFG flow -Loss/change of LFG quality -Problems with air/fuel controls -Problems/failure of flame sensor -Problems with temperature monitoring equipment	31. Check/repair temperature monitoring equipment 32. Check/repair thermocouple 33. Follow procedures for loss of flow/blower malfunction 34. Check/adjust air/fuel controls 35. Check/adjust/repair flame sensor 36. Check/adjust LFG collectors
Flow Monitoring/ Recording Device	Measures and records gas flow from collection system to control	Malfunctions of Flow Monitoring/Recording Device	-Problems with orifice plate, pitot tube, or other in-line flow measuring device -Problems with device controls and/or wiring -Problems with chart recorder	37. Check/adjust/repair flow measuring device and/or wiring 38. Check/repair chart recorder 39. Replace paper in chart recorder
Temperature Monitoring/ Recording Device	Monitors and records combustion temperature of enclosed combustion device	Malfunctions of Temperature Monitoring/Recording Device	-Problems with thermocouple -Problems with device controls and/or wiring -Problems with chart recorder	40. Check/adjust/repair thermocouple 41. Check/adjust/repair controller and/or wiring 42. Check/adjust/repair electrical panel components 43. Check/repair chart recorder 44. Replace paper in chart recorder
Control Device	Combusts LFG	Other Control Device Malfunctions	-Control device smoking (i.e. visible emissions) -Problems with flare insulation -Problems with pilot light system -Problems with air louvers -Problems with air/fuel controllers -Problems with thermocouple -Problems with burners -Problems with flame arrester -Alarmed malfunction conditions not covered above -Unalarmed conditions discovered during inspection not covered above	45. Site-specific diagnosis procedures 46. Site-specific responses actions based on diagnosis 47. Open manual louvers 48. Clean pitot orifice 49. Clean/drain flame arrestor 50. Refill propane supply 51. Check/repair pilot sparking system

⁽b) For each permit limit exceedance complete an "SSM Plan Departure Form". Notify BAAQMD verbally or by fax within 2 working days after commencing the actions that an event inconsistent with the SSM Plan and which resulted in an exceedance of an applicable emission permit has occured. Follow up in writing to the agency within 7 working days after the end of the event.

KCRDF Facility A1812 KCRDF July 1-Dec 31- 2022 SAR

APPENDIX D

FLARE TEMPERATURE DEVIATION/ INOPERATIVE MONITOR REPORTS

KIRBY CANYON	KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA BAAQMD Rule 34, Section 501										
TEMPERATURE DEVIATION/ INOPERATIVE MONITOR REPORT From July 1 2022 through December 31, 2022											
AFFECTED EQUIPMENT: A-12 Flare											
REPORT PREPA TEMPERATURE		ICE:	Rajan Phadnis Thermocouple	DATE: MODEL:							
START DATE & TIME	END DATE & TIME	DURATION (hours)	TEMP (°F) / FLOW (SCFM)	CAUSE	EXPLANATION	ACTION TAKEN					
			N	lo deviations during July 2022							
			No	deviations during August 202	2						
			No d	eviations during September 20	022						
			No	deviations during October 202	22						
			No d	leviations during November 20)22						
			No d	leviations during December 20)22						
Note:	<u> </u>										

KCRDF Plant No. 1812 KCRDF July 1-Dec 31- 2022 SAR

APPENDIX E COVER INTEGRITY MONITORING REPORTS

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility

INSPECTION DATE: July 25, 2022
REPORT DATE: July 25, 2022
TECHNICIAN: Tino Robles

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

REPAIR AREAS:

Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)
Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4		

KCRDF Facility A1812 KCRDF July 1-Dec 31- 2022 SAR

LOCATION: Kirby Canyon Recycling and Disposal Facility

INSPECTION DATE: August 1, 11, and 24, 2022

REPORT DATE: August 30, 2022 TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		Х	
Dead vegetation		Х	
Erosion on cap system		Х	
Erosion on side slopes		Х	
Ponding of water on cap	Х		Near Well 122
Surface cracking	Х		Near Wells 127 and 135
Acceptable vegetation	Х		
Exposed waste	Х		Near Well 135

REPAIR AREAS:

on of Repair (add soil, water)
on or Repair (add son, water)
pacted

LOCATION: Kirby Canyon Recycling and Disposal Facility

INSPECTION DATE: September 2 and 13, 2022
REPORT DATE: September 23, 2022

TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		Х	
Dead vegetation		Х	
Erosion on cap system		Х	
Erosion on side slopes		Х	
Ponding of water on cap		Х	
Surface cracking	Х		Near Wells 71, 151 and 152
Acceptable vegetation	Х		
Exposed waste		Х	

REPAIR AREAS:

Location Description	Data of Bonoir	Description of Repair (add soil, water			
Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)			
Surface cracks near Well 71	9.13.2022	Added soil and compacted			
Surface cracks near Well 151	9.13.2022	Added soil and compacted			
Surface cracks near Well 152	9.13.2022	Added soil and compacted			

LOCATION: Kirby Canyon Recycling and Disposal Facility

INSPECTION DATE: October 6 and 18, 2022
REPORT DATE: October 20, 2022
TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		Х	
Dead vegetation		Х	
Erosion on cap system		Х	
Erosion on side slopes		Х	
Ponding of water on cap		Х	
Surface cracking		Х	
Acceptable vegetation	X		
Exposed waste	X		Near Wells 127 and 128

REPAIR AREAS:

Location Description	Date of Repair	Description of Repair (add soil, water)		
Note cell and near-by wells	Date of Repair	Description of Repair (add son, water)		
Exposed waste by pigs near well 128	10.18.2022	Added soil and compacted		
Exposed waste by pigs near well 127	10.18.2022	Added soil and compacted		
		+		

LOCATION: Kirby Canyon Recycling and Disposal Facility

INSPECTION DATE: November 9 and 11, 2022 **REPORT DATE:** November 23, 2022

TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		Х	
Dead vegetation		Х	
Erosion on cap system		Х	
Erosion on side slopes		Х	
Ponding of water on cap		Х	
Surface cracking	Х		Near Well 70
Acceptable vegetation	Х		
Exposed waste		Х	

REPAIR AREAS:

Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)
Surface cracks near Well 70	11.11.2022	Added soil
Monthly cover integrity monitoring is perfore		

LOCATION: Kirby Canyon Recycling and Disposal Facility

INSPECTION DATE: December 6, 7, and 21, 2022

REPORT DATE: December 23, 2022

TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		Х	
Dead vegetation		Х	
Erosion on cap system		Х	
Erosion on side slopes		Х	
Ponding of water on cap	X		Near Well 151
Surface cracking	X		Near Well 87
Acceptable vegetation	X		
Exposed waste	X		Near Well 87
REPAIR AREAS:			
Location Description	Date of Repair	Dos	cription of Repair (add soil, water)

Location Description Note cell and near-by wells Surface cracks near Well 87 Leachate seep near Well 151 Leachate

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

January 3, 2023

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

Re: Fourth Quarter 2022 Surface Emissions and Component Leak Monitoring Report for the Kirby Canyon Recycling and Disposal Facility

Dear Ms. Azevedo:

This monitoring report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Fourth Quarter 2022 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 walking pattern as depicted the 2011 KCRDF AB-32 SEM Plan, which traverses each monitoring grid. Additionally, in accordance with the provisions of 40 CFR 60.753(d) and 60.755(c)(1-3), the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was calibrated to 500 parts per million by volume (ppm_v) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a) and NSPS. The FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d) and CCR Title 17 §95471(c)(2).

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

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

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

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

Integrated Surface Emissions Monitoring

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm_v for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 3 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(2).

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

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

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

Component Leak Monitoring Procedures

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

- Leaks between 500 and 999 ppm_v must be corrected and re-monitored within 10 days of the initial exceedance.
- Leaks at or above 1000 ppm_v must be corrected and re-monitored within 7 days of the initial exceedance.

FOURTH QUARTER 2022 SEM AND COMPONENT LEAK RESULTS

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

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on October 26, 2022, and December 20, 2022, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppm_v

There were 3 exceedances of 500 ppm_v as methane detected on October 26, 2022. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on October 27, 2022).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on October 26, 2022. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on November 21, 2022. All locations were observed at less than 500 ppm_v.

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

There were no readings between 200 ppm_v and 499 ppm_v as methane detected during the initial monitoring event on October 26, 2022. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm_v but below 500 ppm_v are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on October 27, 2022, in accordance with the ACO and requirements outlined in CCR Title 17 §95469.

Initial Monitoring Event Exceedances of 25 ppm_y

There were no grids with exceedances of 25 ppm_v as methane detected during the initial monitoring event on October 27, 2022.

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

Component Leak Monitoring Results

Component leak monitoring was conducted per the applicable requirements on October 26, 2022. No leaks greater than 500 ppm_v were identified. Please see Attachment C, for details.

WEATHER CONDITIONS

Wind Speed Conductions during the Surface Emission Monitoring Events

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

Precipitation Requirements

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

EQUIPMENT CALIBRATION

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

Ms. Becky Azevedo Page 6

of 25 ppm_v in air for integrated sample analyses and 500 ppm_v in air for instantaneous monitoring to comply with the requirements.

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

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

Thank you, Waste Management

Rajan Phadnis

Environmental Protection Specialist

Attachment A – Instantaneous Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment C – Component Leak Monitoring Event Records

Component Leak Exceedances and Monitoring Logs

Attachment D - Weather Station Data

• Strip Chart Data

Attachment E – Calibration Records

• Instrument and Gas Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

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

2022 QUARTER: 4

PERFORMED BY: RES/WM

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
1	82	10/26/2022	2,200	57
2	73	10/26/2022	7,000	127
3	87	10/26/2022	1,300	152

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

2022 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES/WM

FOLLOW-UP MONITORING PERFORMED BY: Carlos Cruz/Tino Robles
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Initial M	Initial Monitoring Event			Corrective action within 5 days			v-Up	1st 3	0-day Follov	v-Up	
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	1
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	Comments-Well locations
1	10/26/2022	2,200	10/27/2022	Added soil and compacted	10/27/2022	43.1		11/21/2022	17		57
2	10/26/2022	7,000	10/27/2022	Added soil and compacted	10/27/2022	31.2		11/21/2022	22		127
3	10/26/2022	1,300	10/27/2022	Added soil and compacted	10/27/2022	26.1		11/21/2022	28		152

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

2022 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES/WM

FOLLOW-UP MONITORING PERFORMED BY: Carlos Cruz

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Initial N	Initial Monitoring Event				10 Days	2nd Re-mon Event - 10 Days			
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	Comments-Well locations
82	10/26/2022	2,200	10/27/2022	43.1	-	-	1	-	57
73	10/26/2022	7,000	10/27/2022	31.2	-	-	•	-	127
87	10/26/2022	1,300	10/27/2022	26.1	-	-	•	-	152

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

2022 QUARTER: 4

INITIAL MONITORING PERFORMED BY: NA

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

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

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

FOLLOW-UP MONITORING PERFORMED BY: CAR LOS (PUZ 2022 QUARTER QY
INITIAL MONITORING PERFORMED BY:

LANDFILL NAME: KIRBY

Wind Direction: △✓✓
Wind Speed: ✓⋝

Wind Direction: Wind Speed:

					AAIIId obeed.	r. U		will apeed:	eq:		
Initial	Initial Monitoring Event	g Event	Corrective	Corrective action within 5 days	1st 1	1st 10-day Follow-Up	-Up	1st 30-	1st 30-day Follow-Up	w-Up	Comments
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring No Exced.	No Exced.	Exced.	
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	_	>500 ppm	WELL
نا	10.26.22	1300	10.77.27	PACE DIRI/CORPACT	10.54.55	261					425
7	10.26.22	2200	10.27.22	12+SE DIET/COMPACT	10:27:22	43.1					<u>۲</u>
W	10 26.22	7000	10.27.22		10-27-22	31.2					ラギ
				The state of the s							

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

2022 QUARTER: Q4

Tino Robles INITIAL MONITORING PERFORMED BY:

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles LANDFILL NAME: Kirby Canyon

Wind Direction:E Wind Speed: 5

Wind Direction: Wind Speed:

1		_	_	_		_		_	_		 	 _	_	_	_		 		_	_	
	Comments		WELL	PW-1	PW-2C	PW-4A	PW5B	PW-6	PW-7	PW-8											
	w-Up	Exced.	>500 ppm					a.							3	·					
eea.	1st 30-day Follow-Up	No Exced.	<500 ppm	,	· 100 100 100 100 100 100 100 100 100 10		7	mace or share		27.92	 1	ij	40 A	*	te conse	11.00					
villa opea.	1st 30	Monitoring	Date		37.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,															
	Uр	Exced.	>500 ppm		- 1	.x	- 1														
u. o	1st 10-day Follow-Up	No Exced.	<500 ppm	64	72	52	39	27	18	12,											
will obect. o	1st 1(Monitoring	Date	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022											
	Corrective action within 5 days	Action taken to repair	Exceedance	Added fresh Soil & pack it	Added fresh Soil & pack it	Added fresh Soil & pack it	Added fresh Soil & pack it	Added fresh Soil & pack it	Added fresh Soil & pack it	Added fresh Soil & pack it							" " " " " " " " " " " " " " " " " " " "				
	Corrective	Repair	Date	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022											
	y Event	Field	Reading	260	412	451	392	289	310	467											
	Initial Monitoring Event	Monitoring	Date	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022											
	Initial	Flag	Number	1	7	3	4	9	9	7											

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

2022 QUARTER: Q4 INITIAL MONITORING PERFORMED BY:

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: Kirby Canyon

Wind Direction: Wind Speed:

Wind Direction: S Wind Speed: 10

_														 							
	Comments		WELL	57	127	152												-			
	w-Up	Exced.	>500 ppm																		
ea. 10	1st 30-day Follow-Up		<500 ppm	17	22	28															
VIIII Opeca. 10	1st 30-	Monitoring No Exced.	Date	11/21/2022	11/21/2022	11/21/2022															
	dn-	Exced.	>500 ppm																		
•	1st 10-day Follow-Up	No Exced.	<500 ppm																		
willa speed.	1st 10	Monitoring	Date																		
	Corrective action within 5 days	Action taken to repair	Exceedance																		
	Corrective	Repair	Date		Special manufactures of the control				THE RESIDENCE OF THE PARTY OF T												
	g Event	Field	Reading		A CONTRACTOR OF THE CONTRACTOR	1996 T 1997 1996 F 175 MONTHUM CONTRACTOR CONTRACTO					The state of the s	The second secon									
	Initial Monitoring Event	Monitoring	Date		of Controlled Controll	Commence of the control of the contr	Disappose and the Control of the Con	The second secon		TO CONTRACT AND ADDRESS OF THE PARTY OF THE	TO SECURE A										
	Initial	Flag	Number		Applications of the special and the special an	The second secon		MARKET AND A SECOND ASSESSMENT AS		A CONTRACTOR OF THE PARTY OF TH	A CONTRACTOR OF THE CONTRACTOR	The second of th	AND COMMENT OF THE PROPERTY OF	And the second s	Name of the last o						

Personnei: Longhuber Colvin ortiz Dwight Annonson	Chris Hashus GOOLGE STROUP	
Date: 10-26-22 Instrument Use	ed: LVA1000 Gri	Cal. Gas Exp. Date: 7-10-29 d Spacing: 2//
Temperature: 7/ Precip:	P Upwind BG: 2.2	Downwind RC 2.6

GRID ID	STAFF	START	STOP	тос	WII	ND INFOR	MATION	25141216
	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
36	LW	1230	1245	45	2	3	10	
37	CO	1230	1245	116	2	3	10	
38	DA	1230	1245	95	2	3	10	
41	ch	1230	1245	58	2	3	10	
42	65	1233	1245	89	2	3		
43	LV	1245	1300	111	2	4	10	11
44	0	1245	1300	41	2	4	10	11 = -
47	DA	1245	1300	74	2	4	10	
48	4	1245	1360	70	2	4	10	
49	65	1245	1300	127	2	4	lo	
52	LW	1300	1315	77		3	13	
53	CO	13.0	131	38		3	13	
54	DA	1300	1315	7/	1	3	13	
55	- 64	13.0	1315	62		3	13	
57	65	1300	1315	11	1	3	13	
18	Lw	1315	1330	60	2	2	12	
59	63	1315	1330	72	2	2	12	
60	PA	1315	1330	59	2	2	12	
61	Cl	131	1330	76	2,	2	12	
64	65	1315	1330	15	2	2	12	
65	LW	1330	1345	44		2	10	
66	CO	1330	134	108		2	10	
67	DA	1330	1345	122	1	2	(0)	
68	C4	1330	134	52	1	2	10	
70	65	1330	1345	14		2	10	
7/	LW	1345	1400	35		1	4	1
72		134	1450	5)	1	1	G	
73		1345	1400	7,000	i	(É	WEIL 127
74		134	1400	45		1	Q	
75	65	1345	1400	31		1	1	

Attach Calibration Sheet

Attach site map showing grid ID

Page _____ of __3___

Date: 74 Precip: O Upwind BG: 2-2 Downwind BG: 2-6

Attach Calibration Sheet

Attach site map showing grid ID

Page Z of 3

Personnel LUIS WARK CKLVIN OPLIZ	class Hagles George stroup	
pwy by Andonion		Cal Gas Exp. Data: 7-10-2
Date /0-26-22 Instrument Us	ed: _ LVA 1010 Grid	d Spacings 251
Temperature: 7 4 Precip:	Upwind BG: 2.2	Downwind BG: 2,6

	TRITTETALO	START	STOP	TOC	AATI	ND INFOR	MATION	DEMARKS
	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
126	LW	1535	1545	18	2	4	12	
127	CO	1530	1545	20	2	4	12	
128	DA	1530	1545	29	2	4	12	
132	CH	1530	1545	51	2	4	12	
133	65	1530	1545	47	2	4	12	
134	4~	1545	1600	21	2	2	1.2	
135	CO	1545	1600	36	2	2	12	
136	DA	1545	1600	25	2	2_	12	
137	64	1545	1410	21	2	2	12	
138	65	1545	1600	46	2	2	12	
139	LW	1800	1615	28	2	2	10	
140	CO	1800	1611	22	2	2	10	
14/	DA	1600	1615	34	2	2	10	
142	- 614	1600	1615	26	2	2	10	
143	65	1600	1615	31	2	2	10	
144	Lw	1615	1630	46	2	4	12	
145	20	1615	1670	18	2	4	12	
	OA	1615	1630	24	2	4	12	
147	C14	1615	1630	20	2	4	12	
148	65	1615	1630	16	2	4	12	
150	12	1630	1645	24		3	10	
130	C D	1630	1645	19		3	ID	
-								
				200				

Attach Calibration Sheet

Attach site map showing grid ID

Page <u>3</u> of <u>3</u>

	Cal Gas				-	_		
	d Spacing!	Grid		1	nent Used	_ Instruc	5-26-22	1
	Downwi							
	IATION	D INFORM	WIN	тос	STOP	START	STAFF	[D
REM	DIRECTION 16 POINT	MAX. SPEED	AVG SPEED	PPM	TIME	TIME	INITIALS	
Activo-								
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	,		-					
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								-
								+
								+
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			-					
								+

Attach Calibration Sheet

Attach site map showing grid ID

Page 1 of 3

							Cal Gas E	on Date:
/								
ate: /	0 26-60	_ Instru	ment Used	1;		Gri	d Spacing: _	
emperat	ure:	Pre	cip;	Up	wind BG:		Downwin	d BG:
GRID ID	STAFF					ID INFORT		
	INITIALS	START TIME	STOP TIME	TOC PPM	AVG	MAX,	DIRECTION	REMARKS
19					SPEED	SPEED	16 POINT	
20								
2/								
22								
23								
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9								

Attach Calibration Sheet

85

Attach site map showing grid ID

Page Z_{of} 3

						_	Cal Gas E	kp. Date
:e <u>/</u> /)-26-22	Instru	ment Used	11:		Gri	d Spacing: _	
nperal	ture:	Pre	clp:	Up	wind BG	3	Downwin	d BG:
ID ID	STAFF	START	STOP	тос	Win	ND INFORM	MATION	REMARKS
	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX, SPEED	DIRECTION 16 POINT	KERAKKS
0				7				
8								
5								
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3							-	
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1						-		1
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	-							
	+							
			-					
		- 5					-	
		= 1						
-								

Attach Calibration Sheet Attach site map showing grid ID

Page 3 of 3

Orange Flag Landfill Surface Emissions Monitoring Exceedances and Monitoring Log

ELRBY

	18134 UMDE	30											2
Instrument:	tot too	O											
Calibration Standard:	landard: SeeppA	*											
	iitial Monitoring Event		First Re-A	First Re-Monitoring Event - 10 Days	- 10 Days	Second Re-	Second Re-Monitoring Event - 10 Days	nt - 10 Days	30-Day	30-Day Follow-up Monitoring	nitoring	Comments	
	id Field Reading	Date	Date	No Excd.	Excd.	Date	No Excd.	Excd.	Date	No Excd.	Excd.		
	ber (ppm)	Monitored	Monitored	<500 ppm	>500 ppm	Monitored	<500 ppm	>500 ppm	Monitored	<500 ppm	>500 ppm		
	2022 7	10-26-22										W81/57	
6.2 73	-												
0-3 87	2 1300	4										751 1120	
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10-56-22

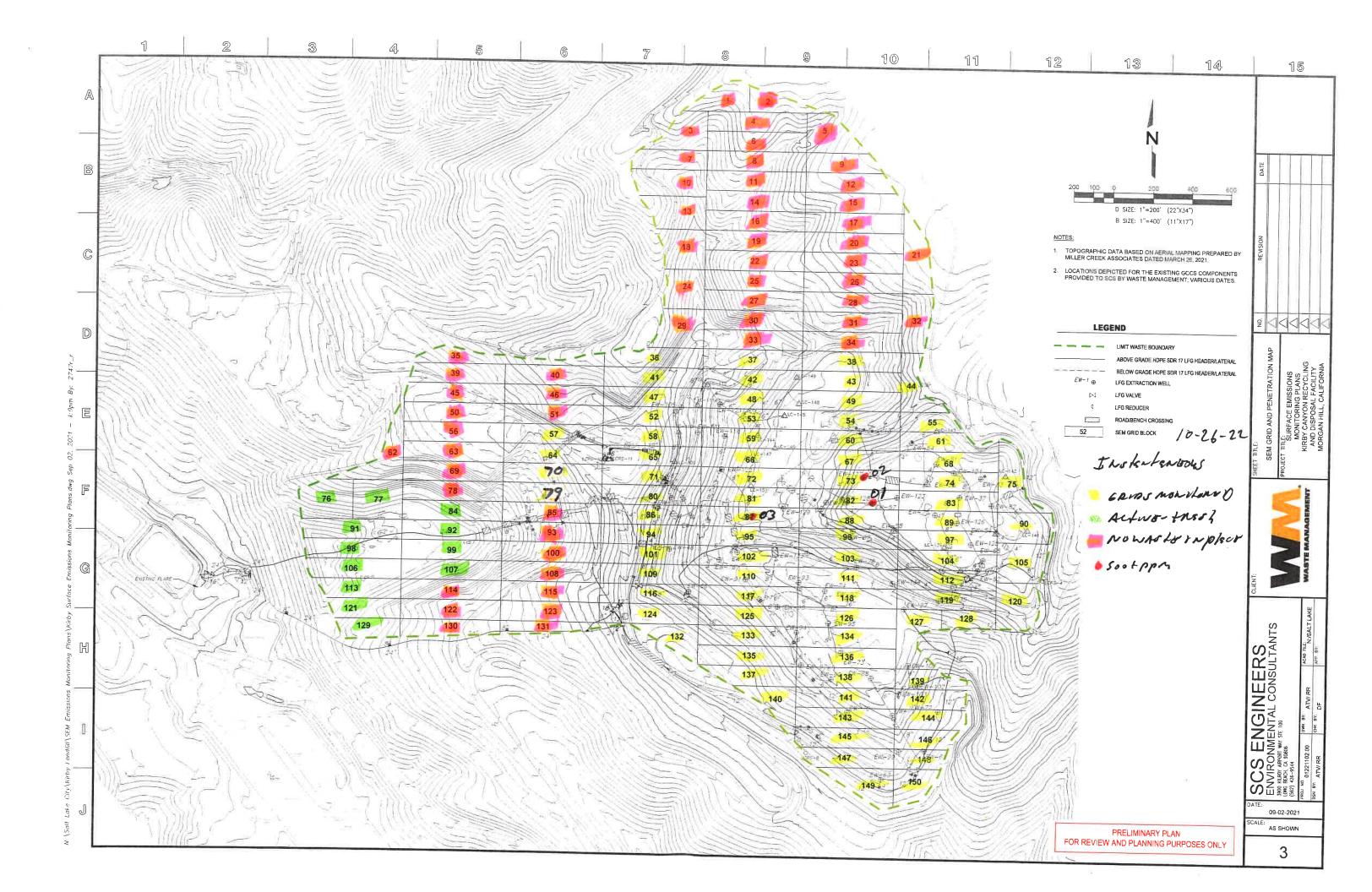
KIRBY LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 10-28-2021

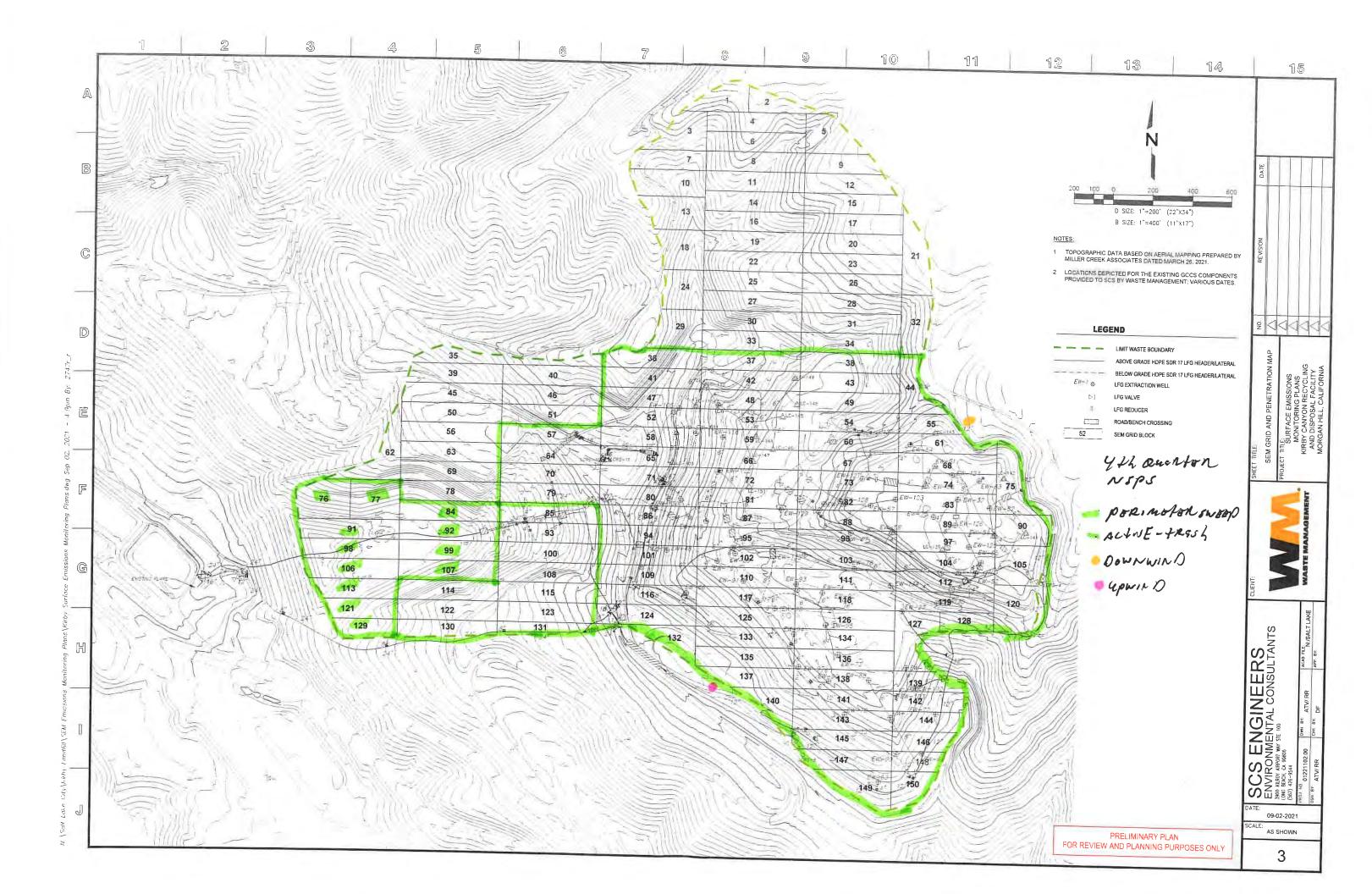
READING 300 (PPIM) 2260 201 60 3 6% びら つり 6 35 24 20 20 202 フレ 3 17 7 24 77 7 Ĺ 2 9 DATE BLOCK NO. SEM GRID 65 58 47 42 97 112 90 75 55 53 99 42 72 5 87 127 148 104 116 143 98 101 89 74 96 143 144 118 102 97 82 88 103 63 75 75 65 63 LONGITUDE -121.6712074 -121.6713388 121.6712086 -121.6708234 -121.6706235 121.6662637 -121,6652963 -121.6661685 -121,6664707 -121,6693456 -121.6697507 -121.6690856 -121.6699511 -121.6654991 -121.6697709-121.6712309 -121.6667349 121.6674273 -121.6715554 -121.6672322 -121.6660124-121.6678545 -121.6675554 -121.668656 121,669166 121,6668334 -121.6667604 -121.6658706 -121.6709201 -121.6684259 -121.6666446 -121.6680346-121.669257 -121.669906 121.670388 -121,6674111 -121,668561 121.665918 121,6680954 121.6665381 -121.668981 -121.670208 -121.670374 LATITUDE 37,1861615 37,1858544 37.1865715 37.1869514 37.1871774 37.1851745 37.1861606 37.1851287 37.1852798 37.1860808 37,1862571 37.1869271 37.1872639 37.1858384 37.1854474 37.1841969 37.1849125 37,1861862 37,1854746 37.1859008 37.1856143 37.187298 37.185945 37.1854822 37.1853507 37.1822912 37.1818317 37,1848434 37.1843777 37.1846682 37.187069 37,186831 37.186235 37.185941 37.186525 37.187048 37.186387 37.1827215 37.1828801 37.1844741 37.1855639 37.1847177 LFG Collector - Standard POINT TYPE DESCRIPTION LC-110 / LC-109 LC-111 LC-143 / LC-139 LC-108 LC-112 LC-155 / EW-58 EW+74 LC-153 LC-159 (EW-76 LC-140 LC-141 LC-145 LC-147 LC-149 LC-161 EW-27 EW-70 ~ LC-142 LC-156 LC-151 LC-152 LC-154 LC-158 LC-160 EW-14 EW-48 EW-54 EW-56 EW-63 / EW-66 LC-157 EW-51 EW-57 EW-62 EW-65 EW-71 EW-72 Point ID 49178 49180 60315 60316 49175 49176 60319 60326 49181 60318 60322 65783 60317 60328 60332 65785 68789 22773 60331 65781 65784 65786 65787 65788 22752 22756 65782 33389 33387 33390 33391 33395 33336 33398 39441 39445 39446 39449 39447 39450 39451 39453 K10 K15 X12 K13 K14 K16 K18 K19 K20 K22 Z 2 3 7 5 **K**6 ∇ 8 8 8 K11 **K17** K21 K23 K24 K26 K27 K28 K29 K30 K32 K34 K36 K38 K25 K40 K31 K33 K35 K37 K39 K42 K43 K41

BRID H NOTES Chever READING (PPM) 7,000 375 76 77 77 26 9 77 22 36 74 24 7 36 9 5 J 7 2 DATE BLOCK NO. SEM GRID 138 136 138 16 133 83 19 82 96 102 118 111 126 125 148 127 139 142 72 82 80 111 47 59 87 48 80 104 74 147 97 73 82 65 01 LONGITUDE 121.6671679 -121,6686558 -121,6699698 -121.6686993-121,6658484-121.6681567-121,6700714 -121.6681463 -121.6690086 -121,6690093 -121,6685091 -121,6689421 -121.6711534 121,6661443 -121.667728 -121.6691791 -121.6670075 121,6672975 -121,6704025 121.6706102 -121.6704699-121,6704487 -121,6663665 -121.6669166 -121.6679479 -121.6688906 -121,6665942 -121,6690703 -121.6715854 -121.6673885 -121.6713393 -121.6708386 -121,6653886 -121.667186 -121,6683291 -121,6673614 -121.6693602 -121.667054 LATITUDE 37.1858616 37.1831824 37.1852233 37.1848945 37.1834937 37,1842745 37.1846024 37.1837826 37.1855907 37.1845284 37.1834011 37,1822657 37.1841664 37.1834129 37,1830105 37.1833032 37,1865144 37.1853394 37.1869645 37.1860822 37,1861053 37.1850526 37,1854463 37.1859883 37.1856942 37.1823056 37.183988 37.1855239 37.1843228 37.1847276 37.1859682 37.1856391 37.1865955 37,1844936 37.186772 37.185714 37.18491 Leachate Riser or Sump (LR) Leachate Riser or Sump (LR) LFG Collector - Standard Leachate Riser or Sump (LR) LFG Collector - Standard DOINT TYPE DESCRIPTION EW-102 C EW-121 -EW-126 EW-127 / EW-129 ~ EW-131 EW-97 EW-130 ← LCRS-11 EW-86. EW-90 EW-94 EW-99 EW-101' EW-105 EW-119 0 EW-135-EW-84 EW-88 LCRS-8 EW-87 EW-89 EW-122 EW-124 EW-133 EW-91 EW-92 EW-128 EW-93 EW-95 EW-98 EW-103 EW-118 EW-123 EW-125 EW-134 LCRS-4 Point ID 41796 41798 39457 39459 39461 39462 41799 43786 43788 41794 41795 41797 43784 48252 55176 55182 41800 46300 46301 46302 51853 51854 51856 51857 55175 55178 55179 55180 43787 55183 55185 55186 42098 55177 55187 46305 55181 7772 K45 K46 K48 K44 **K**49 K56 K58 K47 K50 K64 99X **K**51 **K**52 K53 K54 55 K57 K59 K60 K61 **K62** K63 K65 K67 K70 K74 K75 K76 K69 K72 K78 K79 K81 K81 K71 K73 K77

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Attachment B

Integrated Surface Emission Monitoring Event Records

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

2022 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES FOLLOW-UP MONITORING PERFORMED BY: N/A

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

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

KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISLWADK	Chris Higher Stromp	
DWISH AMBENSA	19801-09 Aviet N	Cal. Gas Exp. Date: 7-10-24
Date: <u>/ クー27ー22</u> Instrument Us	sed: <u> </u>	d Spacing: 25'
Temperature: 47 Precip:	Upwind BG: 2.2	Downwind BG: 21-6

GRID	STAFF	START	STOP	тос	WIND INFORMATION			REMARKS
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KEMAKKO
36	LW	0615	0640	10.91	D	J.	12	
37	CO	OKLS	0640	14.66	0	1	12	
38	OA	0615	0640	12.85	0		12	
41	64	0615	0640	9.70	٥	1	12	
42	65	0615	0640	13.52	٥	(12	
43	L~	0640	0705	18.97	Ī	2	10	
44	60	0640	2010	12.62	1	2	.10	
47	04	0880	aro	13.95		2	10	
48	CH	0640	מ דם	10.60		2	10	
49	65	0640	2050	14.58	1	2	10	
52	W	0761	0730	9-66	2	4	10	
53	CO	0705	0500	17.24	2	4	10	
54	DA	0705	0730	19.08	2	et	10	
55	cs	0705	6730	8.75	2	4	lo	
57	65	070	0730	7-11	2	4	10	
58	LV	0736	0755	9.22	2	2	10	
59	60	0730	0)85	20.71	2	2	10	
60	PA	0730	0785	23.60	2	2	10	
6/	Ch	0730	0785	9.39	2	2	10	
64	65	07.70	2260	7.15	2	2	10	
65	LV	0755	0820	9.30	2	4	9	
66	CD	2260	0820	15.41	2	4	9	
67	02	2250	0820	20.35	2	4	9	
68	C3	0)8	0820	8.36	2	4	9	
70	65	2850	0820	6.49	2	4	9	
7/	w	08m	0845	8.30		3	12	
72	CO	0820	0848	11.71		3	12	
73	DA	5823	0845	13.05		3	12	
74	C4	0820	84V	7.62		3	12	
75	85	0820	0845	6.40		3	12	

Attach Calibration Sheet

Attach site map showing grid ID

Page ______ of ______

KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIS LUNDE Chaus Hus Lus

Lalvin ontin

DWISH ANDONSIN Chans Hus has

Cal. Gas Exp. Date: 7-10-29

Date: 10-27-22 Instrument Used: 1041000 Grid Spacing: 251

Temperature: 62 Precip: 0 Upwind BG: 22 Downwind BG: 2-6

GRID	STAFF	START	STOP	тос	WIND INFORMATION			REMARKS
ID	INITIALS	INITIALS TIME		PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KENAKO
79	LV	0845	0510	6.15	3	5	10	
80	CO	0845	0910	8.32	3	5	10	
81	OA	0825	0910	11.75	3	5	10	
82	cH	UP 95	0910	9.67	3	5	10	
83	65	0860	0510	7.4/	3	5	10	
86	W	0912	0935	8.20	2	5	10	
87	co	0260	0931	11.41	2		.10	
88	DA	0510	1831	13.65	2	5	10	
89	C4	0510	0935	7-13	2	9	10	
90	65	0918	0935	6-22	2	5	10	
94	W	6935	1000	7.14	3	5	10	
95	CD	0535	1600	10.30	3	5	10	
96	DA	4535	1010	9.52	3	5	10	
97	C 4	052	1010	7.20	3	5	10	
101	65	2530	1000	7.03	3	5	10	
102	W	1000	1025	10.45	4	6	10	
103	00	1800	1025	9-10	af	6	10	
104	OD	1000	1024	6.47	4	6	10	
105	03	1000	1025	5.38	4	6	10	
109	65	1010	1025	7.21	4	6	10	
110	w	1020	1050	16.99	af	7	10	
111	CD	2025	1000	8.57	4	7	10	
112	DA	1020	1050	7.62	4	1	10	
116	ch	2020	1050	7.45	4	7	10	
117	GS.	1025	1050	8-13	4	7	10	
118	W	1050	1115	7.22	4	6	8	
118	CD	2050	1115	6.49	1	6	8	
120	PA	1050	1365	6.28	4	6	8	
124	ch	2050	HIN	6.11	4	6	8	
125	65	1080	IIN	5-72	4	6	4	

Attach Calibration Sheet

Attach site map showing grid ID

Page Z of 3

KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Ley Lumb Clais Higher

Colvin until Gronder strong

Owight Anomin Cal. Gas Exp. Date: 7-10-24

Date: 10-27-22 Instrument Used: 4UA 1000 Grid Spacing: 25'

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

	STAFF	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
	INITIALS				AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KLMAKKS
126	W	1115	1140	5.14	4	7	10	
127	60	1115	1140	4.76	1	7	10	
128	DA	1115	1140	5.45	4	7	10	
132	Ch	1115	1140	6.07	ef	7	10	
133	65	1115	1140	5.34	4	7	10	
134	1	1210	1231	5.07	4	6	10	
135	CD	1210	1231	6.52	4	6	. 10	
136	DA	1210	1231	6.11	u	6	10	
137	C17	1210	1231	5.79	4	6	10	
138	65	1210	1235	5.40	4	6	10	
139	1	1235	1300	4.19	5	6	10	
140	< S	1231	1300	5.75	5	6	10	
141	DA	1221	1300	4.89	5	5	10	
142	ch	1221	1300	5.27	5	8	10	
143	65	1235	1300	5.39	5	X	10	
184	LW	1360	1325	6.10	4	4	10	
145	20	1300	1321	5.84	4	4	10	
146	pA	13.0	1325	5.97	4	9	10	
147	c4	1300	132	4.65	4	8	10	
148	65	1300	1325		4	8	10	
149	LW	1325	1350	5.82	4	(10	
150	00	13.25	1350	4.94	4	4	10	
						l T		
			/					

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

-							Cal. Gas Ex		
ate: <u>/</u> 6	,-27-22	Instrume	nt Used: _			Grid S	Spacing: _		
emperati	ure:	Precip	:	_ Upwind	BG:		Downwin	d BG:	
GRID	STAFF	START	STOP	тос	WIN	ND INFOR	RMATION		REMARKS
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT		KLMAKKS
76								Act	·vo-frs
フン									1
84									
9/								2	
92									
98									
99							3		
106									
(8)									
113									
121									
125								A	
i								NOW	ASFring
2									1
3									
4									
5									
5									
								-	
8								-	
9									
10					-			-	
11									-
12	1				-				
13	-				-				1
14					-				1
15									
16	1								

Attach Calibration Sheet Attach site map showing grid ID

KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

-						_	Cal. Gas Exp.	Date:
ate:/	0-27-12	Instrume	nt Used: _			_Grid S	pacing:	
emperat	ure:	Precip	:	_ Upwind	BG:	-	Downwind E	3G:
GRID	STAFF	START	STOP	тос	WIN	ID INFOR	MATION	DEMARKS
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
19								
20								
21								
22								
23								
24								
25							i x	
26								
27								
28								
25								
30								
31								
32								
73								
34								
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46								
50								
51								
56 62 63								
62								
63								

Attach Calibration Sheet Attach site map showing grid ID

93

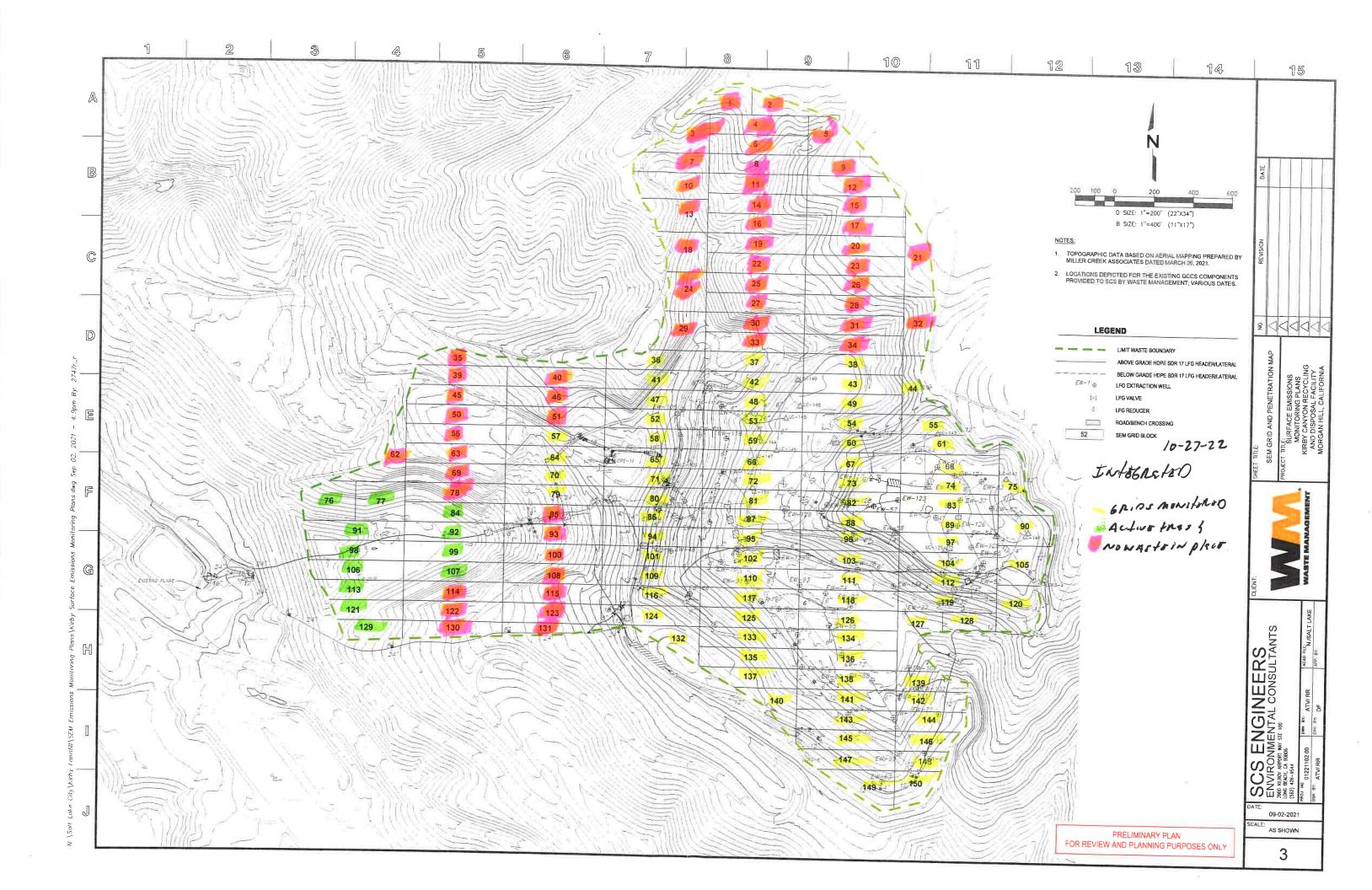
Page Z of 3

KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

								. Date:
ate: / p	-27-22	Instrume	nt Used: _			_ Grid S	Spacing:	
mperat	ure:	Precip	:	_ Upwind	BG:		Downwind	BG:
GRID	STAFF	START	STOP	тос	WIN	ND INFOR	RMATION	REMARK!
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KLIIAKK.
100								1
108	1							
114	100							
115								
22								N
23	-							V -
30	-	-					*	
3/	-				+			
					1			
					1			
			1					
			h					

Attach Calibration Sheet Attach site map showing grid ID

Page $\underline{\mathcal{S}}$ of $\underline{\mathcal{S}}$



Attachment C

Component Leak Monitoring Event Records

Table C.1

AB-32 Component Leak Monitoring

Summary of Component Leaks Greater than 500 ppmv

2022 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	lı	nitial Monitorin	ng	Correc	10-Day Remonitoring			
Location	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	10/26/22	ND	Leigh wade	=	-	-	-	-

ND= No Exceedances

Table C.2

BAAQMD Component Leak Monitoring Summary of Component Leaks Greater than 1,000 ppmv

2022 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	In	itial Monitoring	9	Correc	tive Action	7-Day Remonitoring		
Location	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	10/26/22	ND	Leigh wade	-	-	-	-	=

ND= No Exceedances

BAAQMD Component Leak Field Data Sheet Template 06052014

LANDFILL NAME: $/ \zeta \, ^{\prime} h^{\prime} \gamma^{\prime}$ QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID MAKE: Thermo Environr MODEL: TVA 1000 S/N: /b3134773

DATE OF SAMPLING: 16~26~20 TECHNICIAN: 68156 NAP

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE- MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NOEXCECTORIES							

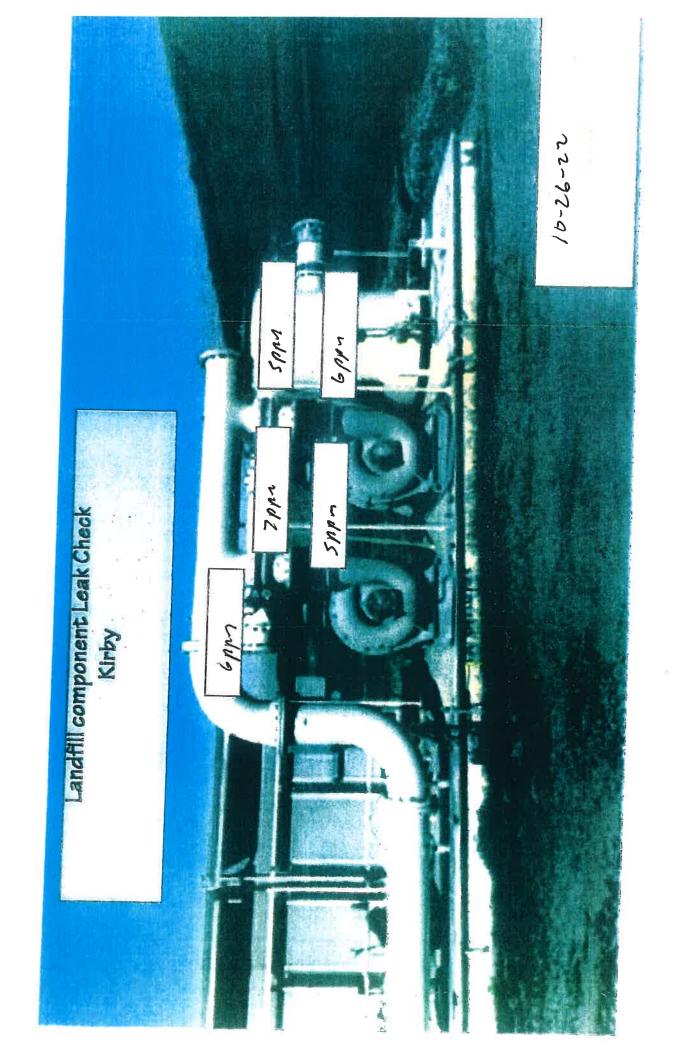
In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.

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

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



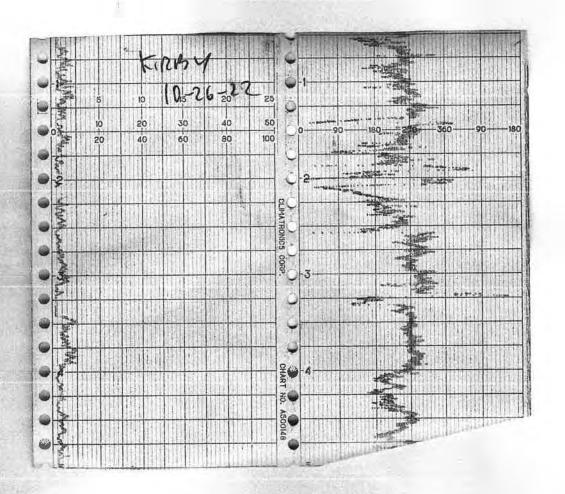
X. c



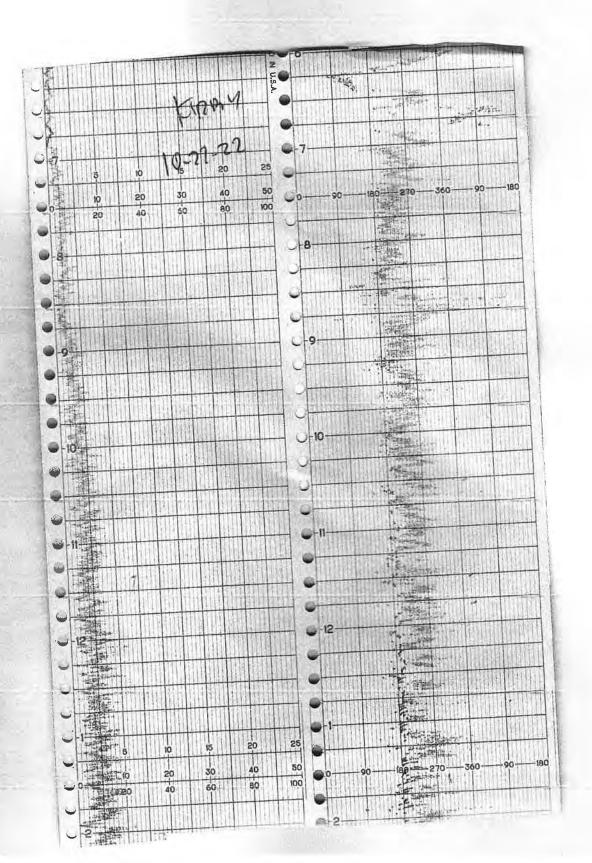
Attachment D

Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL





	16-POINT V	VIND DIRECTION	INDEX	
NO	DIRECTION		DEGREES	
		FROM	CENTER	TO
16	NORTH (N)	348.8	369.0	t v1.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056,3	067.5	078.8
4	EAST (E)	078.8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
5	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
3	SOUTH (S)	168.8	180.0	191.3
	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
Ü	SOUTHWEST (SW)	213.8	225.0	430.5
1	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
2	WEST (W)	258.8	270.0	281.3
3	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
4	NORTHWEST (NW)	302.8	315.0	326,3
5	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

Attachment E

Calibration Records



LANDFILL NAME: 121	rby	INSTRUMEN	T MAKE \mathcal{L}	Honno
MODEL: LUA 1000	EQUIPMENT #:	10		1036346773
MONITORING DATE	10-26-22	TIME:	1220	

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
Zc Z ppm	Zc6 ppm	2,4 ppm

Background Value = 2-9 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabil Reading	ized	Time to Reach Stabilized Read switching from Calibration Gas	ing after Zero Air to
#1	487 ppm	445	ppm	フ	
#2	SUZ ppm	452	ppm	フ	
#3	5 00 ppm	450	ppm	フ	
	Calculate Response Time (+2+3) 3		7 Must be less tha	#DIV/0! n 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Ze	ero Air (A)	Meter Reading Calibration Gas		Calculate Precision	[STD – (B)]
#1	0,13	ppm	495	ppm	5	
#2	0.09	ppm	502	ppm	2	
#3	0.07	ppm	500	ppm	0	
Calculate Precision	on [STD-B1] + [S	TD-B2] + [3 3	STD-B3] X <u>1</u> X 500	<u>100</u> 1	O-44 Must be less tha	#DIV/0!

Performed Bv:	LOIShWNOU	Date/Time: 10-26-22	1220



LANDFILL NAME 1CIRBY	INSTRUMENT MAKE: + HORAN
MODEL: +UA 1000 EQUIPMENT #	1/ SERIAL #: 1036346774
MONITORING DATE: 10-26-27	TIME /220

Calibration Procedure:

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

Background Determination Procedure

Upwind Backg Reading: (Highest in 30 se		Downwind Background Reading: (Highest in 30 seconds)		Background Val	/
2.2	ppm	2.6	ppm	2.4	ppm

Background Value = 2-4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Calibration Gas	90% of the Stabili Reading	zed	Time to Reach 9 Stabilized Readi switching from 2 Calibration Gas	ng after	
#1	507	ppm	457	ppm	6	
#2	500	ppm	410	ppm	6	
#3	500	ppm	400	ppm	6	
	6	#DIV/0!				
					Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zer			for s (B)	Calculate Precision [STD -	
#1	0-11	ppm	507	ppm	>	
#2	0.06	ppm	500	ppm	0	
#3	0.04	ppm	ل د ک	ppm	8	
Calculate Precision	on [STD-B1] + [ST	TD-B2] + [5 3	STD-B3] X <u>1</u> X 500	100 1	0.46 Must be less than	#DIV/0!

Performed By: LELVIN OR FIZ

Date/Time: 10-26-22 -122c



LANDFILL NAME /CINO	y	INSTRU	IMENT MAKE +	funo
MODEL LVA1000	EQUIPMENT #: _	12	SERIAL #:	1036246741
MONITORING DATE: /b	-26-22	TIME	=: /270	

Calibration Procedure:

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

Background Determination Procedure

Upwind Backgr Reading: (Highest in 30 sec		Downwind Back Reading: (Highest in 30 seco		Background Value: (Upwind + Downwind) 2	
2,2	ppm	206	ppm	2.4	ppm

Background Value = 2 / ppm

INSTRUMENT RESPONSE TIME RECORD

Stabilized Reading Using Calibration Gas		90% of the Stabil Reading	1264	switching from	ling after Zero Air to
485	ppm	439	ppm	6	
501	ppm	451	ppm	6	
500	ppm	450	ppm	6	
Calculate Response	Γime (<u>1</u> -	+2+3)		4	#DIV/0!
	485 501	USS ppm SUS ppm	785 ppm 437 501 ppm 451 505 ppm 450	U85 ppm U37 ppm So5 ppm US ppm	switching from Calibration Gas 485 ppm 439 ppm 6 505 ppm 439 ppm 6

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zer			for s (B)	Calculate Precision [STD -	
#1	0-07	ppm	485	ppm	11	
#2	0.04	ppm	501	ppm	1	
#3	0-03	ppm	506	ppm	D	
Calculate Precisio	n [STD-B1] + [ST	D-B2] + [5 3	STD-B3] X <u>1</u> X 500	100 1	O - 80 Must be less that	#DIV/0!

Performed By DWISh ANDONSIN Date/Time: 10-26-22 1720



LANDFILL NAME /CIRB	4	IN	STRUMENT	MAKE +H	lors
MODEL: LUA 1000	EQUIPMENT #:	13			1102746775
MONITORING DATE: 10-1	6-22		TIME	1220	

Calibration Procedure:

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

Background Determination Procedure

Upwind Backg Reading: (Highest in 30 se		Downwind Backg Reading: (Highest in 30 seco		Background Value: (Upwind + Downwine 2	
2-2	ppm	2-6	ppm	2.4	ppm

Background Value = 2-4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Calibration Gas	90% of the Stabilized Reading		Time to Reach Stabilized Read switching from Calibration Gas	ling after Zero Air to	
#1	5.5	ppm	485	ppm	>	
#2	455	ppm	449	ppm	7	
#3	510	ppm	450	ppm	2	
	Calculate Response T	ime (<u>1-</u> 3	+2+3)		7 Must be less tha	#DIV/0! n 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	• • • • • • • • • • • • • • • • • • • •		Meter Reading for Calibration Gas (B)		Calculate Precision [STD – (B)]
#1	0-15	ppm	505	ppm	5	
#2	0-11	ppm	455	ppm	1	
#3	0-09	ppm	210	ppm	۵	
Calculate Precision	[STD-B1] + [ST	TD-B2] + [5 3	STD-B3] X <u>1</u> X 500	1 100 1	O -4 b Must be less than	#DIV/0!

Performed By:	CHRIS Hashës	Date/Time: 10-26-22	1220



LANDFILL NAME /LINB	1	INSTRUME	ENT MAKE: _ /	Honro
MODEL: LUA 1000	EQUIPMENT #:	16	SERIAL #:	1102746776
MONITORING DATE:	26-22	TIME _	1220	

Calibration Procedure:

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

Background Determination Procedure

Upwind Backg Reading: (Highest in 30 se		Downwind Back Reading: (Highest in 30 sec	- 1	Background Va (Upwind + Do 2	
2-2	ppm	2.6	ppm	2.4	ppm

Background Value = 2 - 4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using 90% of the Stabilized Reading						zed	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas	
#1	503	ppm	413	ppm	4				
#2	500	ppm	450	ppm	4				
#3	500	ppm	455	ppm	4				
	Calculate Response Ti	me (<u>1</u> -	<u>+2+3</u>)		9 #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)		· ·				* * * * * * * * * * * * * * * * * * * *		TD – (B)]
#1	0-11	ppm	507	ppm	3						
#2	0-07	ppm	000	ppm	0						
#3	0-05	ppm	500	ppm	0						
Calculate Precision	[STD-B1] + [S	3 (STD-B2)	STD-B3] X <u>1</u> X 500	100	O 2 O Must be less than	#DIV/0!					

Performed By: 680N68 STN04P Date/

Date/Time: 15-26-17 1770



LANDFILL NAME /CIRBY	INSTRUMENT MAKE _ f.Honw			
MODEL LVALVU EQUIPMENT#	10	SERIAL#	1036746773	
MONITORING DATE /6-27-22	TIME	0610		

Calibration Procedure:

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

Background Determination Procedure

Upwind Backg Reading: (Highest in 30 se		Downwind Back Reading: (Highest in 30 sec		Background Val	
2,2	ppm	2.6	ppm	2-4	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 Stabilized Reading switching from 2 Calibration Gas	ng after
#1	2.3 ppm	20.7	ppm	5	
#2	25 ppm	22.5	ppm	5	
#3	25 ppm	22.5	ppm	5	
	Calculate Response Time (1+2+3) 3		5	#DIV/0
				Must be less than	30 seconds

CALIBRATION PRECISION RECORD

		ment # Meter Reading for Zero Air (A) Meter Reading for Calibration Gas (B)		Calculate Precision	[STD - (B)]	
#1	0.14	ppm	23	ppm	2	
#2	0-11	ppm	25	ppm	0	
#3	0.07	ppm	25	ppm	٥	
Calculate Precisio	n [STD-B1] + [S	3 + [S	STD-B3] X <u>1</u> X 25	1 100 1	2.6	#DIV/0
					Must be less that	n 10%

Performed By	Loughward	Date/Time: / 6	-27-22	0610	
· ·	0	Cate/Time. 70			_



LANDFILL NAME:/	Kirby	INSTRUMENT MAKE + Horns
MODEL _ LUA!	EQUIPMENT #:	1/ SERIAL #: 1036746772
MONITORING DATE _	10-27-22	TIME OGLO

Calibration Procedure:

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

Background Determination Procedure

Upwind Backgr Reading: (Highest in 30 se		Downwind Back Reading: (Highest in 30 seco		Background Val	
2.2	ppm	2.6	ppm	2.4	ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Calibration Gas	90% of the Stabiliz Reading	% of the Stabilized eading		0% of ng after Zero Air to	
#1	24	ppm	21.6	ppm	6	
#2	25	ppm	225	ppm	6	
#3	23	ppm	22.5	ppm	6	
	Calculate Response T	ime (<u>1</u> -	+2+3)		6	#DIV/0!
					Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Ze	ro Air (A)	Meter Reading Calibration Gas		Calculate Precision	[STD - (B)]
#1	0.09	ppm	24	ppm	/	
#2	0-6-6	ppm	2.5	ppm	0	
#3	0-05	ppm	25	ppm	δ	
Calculate Precision	on [STD-B1] + [S	TD-B2] + [5 3	STD-B3] X <u>1</u> X 25	100 1	1.3	#DIV/0
					Must be less tha	an 10%

Performed By	- Calvin	orter	Date/Time: / 0 - 27 - 22 - 06	510



LANDFILL NAME:////	czy	INSTRUMEN	TMAKE +HAND	
MODEL LUBION	EQUIPMENT #:		SERIAL #: 1036	
MONITORING DATE: 1	1-27-22	TIME:	0610	

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 Backgi Reading: (Highest in 30 se		Downwind Backg Reading: (Highest in 30 seco		Background Val	
2.2	ppm	2,6	ppm	2.9	ppm

Background Value = 2.9 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Calibration Gas	90% of the Stabilized Reading		Time to Reach 9 Stabilized Readi switching from 2 Calibration Gas	ng after	
#1	23	ppm	20.7	ppm	Ь	
#2	24	ppm	21.6	ppm	6	
#3	25	ppm	22.5	ppm	6	
	Calculate Response T	ime (<u>1</u> -	+2+3)		6 Must be less than	#DIV/0!

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Ze	ro Air (A)	Meter Reading Calibration Ga	-	Calculate Precision [STD – (B)]
#1	0.13	ppm	2.7	ppm	2	
#2	0.08	ppm	24	ppm	,	
#3	0.04	ppm	25	ppm	Ø	
Calculate Precision	STD-B1] + [ST	D-B2] + [S	STD-B3] X <u>1</u> X 25	1 <u>100</u> 1	4-0	#DIV/0!
					Must be less than	1 10%

Performed By:	DNISHL ANDONIN	Date/Time:	10-27-22-	0610
		Outoffillo.	1 - 1 - 1	



LANDFILL NAME /CINBY	INSTRUMENT MAKE: HONN
MODEL: LUBOR EQUIPMENT #: 13	
MONITORING DATE: 10-27-22	TIME: OBS

Calibration Procedure:

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

Background Determination Procedure

Upwind Backgro Reading: (Highest in 30 sec	- 4	Downwind Back Reading: (Highest in 30 sec		Background Value (Upwind + Dow 2	
2-2	ppm	2-6	ppm	2-4	ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas		Reading States		Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24	pm	21.6	ppm	5
#2	25 P	pm	225	ppm	5
#3	25 P	pm	225	ppm	5
	Calculate Response Time	(<u>1</u>	+2+3)		J #DIV/0
					Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)		o Air (A) Meter Reading for Calibration Gas (B)				Calculate Precision	[STD - (B)]
#1	0-1/	ppm	24	ppm	/			
#2	0.08	ppm	25	ppm	D			
#3	0-84	ppm	25	ppm	J			
Calculate Precision	on [STD-B1] + [ST	D-B2] + [5	STD-B3] X <u>1</u> X 25	<u>100</u> 1	1.3	#DIV/0!		
					Must be less that	n 10%		

Performed By: _	Chris	Hughes	Date/Time: _/ ひーこうーこつ	-0610
			12.12.	



LANDFILL NAME / LIKBY	INSTRUMENT MAKE: + HEN A D	
MODEL: 40 A-1000 EQUIPMENT #	4 4	
MONITORING DATE: 16-27-22	TIME: 0610	

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 Backg Reading: (Highest in 30 se		Reading:		Background Valo	
22	ppm	2.6	ppm	2.4	ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabiliz Reading	zed	Time to Reach 9 Stabilized Readi switching from 2 Calibration Gas	ng after
#1	2.3 ppm	20-7	ppm	6	
#2	25 ppm	225	ppm	6	
#3	ZJ ppm	222	ppm	4	
	Calculate Response Time (1+2+3) 3		-6	#DIV/0!
				Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A) Meter Reading for Calibration Gas (B)		Calculate Precision [STD – (B)]			
#1	0.09	ppm	23	ppm	2	
#2	0-07	ppm	25	ppm	0	
#3	0-05	ppm	25	ppm	O	
Calculate Precision [STD-B1] + [STD-B2] + 3		3 3	STD-B3] X <u>1</u> X 25	100	Z - 6 Must be less tha	#DIV/0

Performed By	GAUNGE	Stroup	Date/Time:	10-27-22	-0610
	0 0 0 0	0 1 100-10	Date/Time:	10 01 00	

CALIBRATION PRECISION TEST RECORD

Date: 10/6/22
Expiration Date (3 months): $1/(e/23)$
Time: 625 AM PM
Instrument Make: Thermo Model: TVA-1007 S/N: 0928538411
Measurement #1:
Meter Reading for Zero Air: ppm (a)
Meter Reading for Calibration Gas: 504 ppm (b)
Measurement #2:
Meter Reading for Zero Air: ppm (c)
Meter Reading for Calibration Gas: 502 ppm (d)
Measurement #3:
Meter Reading for Zero Air: ppm (e)
Meter Reading for Calibration Gas: 502 ppm (f)
Calculate Precision:
$\frac{\{ (500) - (b) + (500) - (d) + (500) - (f) \}}{3} \times \frac{1}{500} \times 100$
% (must be < than 10%)
Porformed Par Pol 18

RESPONSE TIME TEST RECORD

Time: 625 AM PM			
Instrument Make: Wermo Model: TVA	-1000B	S/N: 092	285384
Measurement #1:			
Stabilized Reading Using Calibra 90% of the Stabilized	Reading:	501	_ ppm _ ppm
Time to Reach 90% of Stabilized Reac switching from Zero Air to Calibra	ding after tion Gas: _	_ 7	_ seconds
Measurement #2:			
Stabilized Reading Using Calibrate 90% of the Stabilized	Reading:	502	_ ppm _ ppm
Time to Reach 90% of Stabilized Read switching from Zero Air to Calibrat		4	_seconds
Measurement #3:			
Stabilized Reading Using Calibrat 90% of the Stabilized I	Reading:	502	_ ppm _ ppm
Time to Reach 90% of Stabilized Read switching from Zero Air to Calibrat	ling after tion Gas:	_ 5	_ seconds
Calculate Response Time:			1
$\frac{(a)+(b)+(c)}{3} = {}$ seconds (must be le	ess than 30 se	conds)	

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: KIRBY Date: 10 17- 2022 Time: AM 2:00 PM Instrument Make: III ORNO Model: IA 1000 S/N: 092853841/
Calibration Procedure
1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.
Stable Reading = 505 ppm
3. Adjust meter to read 500 ppm.
Background Determination Procedure 1. Upwind Reading (highest in 30 seconds): 2. Downwind Reading (highest in 30 seconds): 1. ppm (b)
Calculate Background Value: (a) + (b) Background = 4.5 ppm 2
Performed By: Ar bs Cruz

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

2	
laub sn	v:0928538411
troducing zero	air.
	ppm (a)
2	ppm (b)
	ntroducing zero

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

1 1

Landfill Name: Kirby Date: 12 20 22
Time: OF AMPM
Instrument Make: THERMO Model: TUA WOOB S/N: 09140
Calibration Proxidure
1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.
Stable Reading = 50 2 ppm
3. Adjust meter to read 500 ppm.
Background Determination Procedure
1. Upwind Reading (highest in 30 seconds). 2 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)
Calculate Background Vanue:
$\frac{(a) + (b)}{2} \qquad \text{Background} = \underbrace{1} \text{ppm}$

CALIBRATION PRECISION TEST RECORD

Date: 10-13-20
Expiration Date (3 months):
Time: AM
Instrument Make: TVA 1000 Model: THERMO S/N: 09/4635775
Measurement #1:
Meter Reading for Zero Air: ppm (a)
Meter Reading for Calibration Gas:ppm (b)
Measurement #2:
Meter Reading for Zero Air: ppm (c)
Meter Reading for Calibration Gas: 504 ppm (d)
Measurement #3:
Meter Reading for Zero Air: ppm (e)
Meter Reading for Calibration Gas: ppm (f)
Calculate Precision:
$\frac{\{ (500) - (b) + (500) - (d) + (500) - (f) \}}{3} \times \frac{1}{500} \times 100$
(must be < than 10%)
Performed By:

RESPONSE TIME TEST RECORD

Control of the Control of Control		
Date: 10-13-20	;	
Expiration Date (3 months):/ • /3 2023		
Time:AM /.'@ PM	•	
Instrument Make: TVA-1000 Model: THERMO	S/N: 09	1463577
Measurement #1:		
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:	500 498 4	_ ppm _ ppm _ seconds (a)
Measurement #2:		
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:	501 501 1	_ ppm _ ppm _ seconds (b)
Measurement #3:	•	
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:	194 2	_ ppm _ ppm _ seconds (c)
Calculate Response Time:		•
$\frac{(a) + (b) + (c)}{3} = \frac{\text{seconds (must be less than 30)}}{3}$ Performed By:	seconds)	·



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site:				
Purpose:				
Operator:	Mu n	1		
Date: 10-1-22		Time:	0800	
Model # TVA 1000				
Serial # # 10 10363	46773			
INSTRUMENT INTEGRITY CHECKLIST INSTRUMENT CALIBRATION		ATION		
Datta	-0		ALIBRATION CHEC	
Battery test	Pass / Fail	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Reading following ignition	ppm	-		Accuracy
Leak test	Rass / Fail / NA	500	500	100
	_		RESPONSE TIME	
Clean system check (check valve chatter)	Pass / Fail / NA	Calibration Gas, p		500
(Check valve Chatter)	<i>A</i>	90% of Calibration		450
H₂ supply pressure gauge	Pass / Fail / NA	IA Time required to attain 90% of Cal Gas ppm		
(acceptable range 9.5 - 12)	Tarant Art	1.	2	
Date of last factory calibration	10-1-27	2	5	
Footon, colibertion and			50	
Factory calibration record w/instrument within 3 months		Equal to or less th		(Ý) N
		1	ited to Clfy	



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site:	
Purpose:	
Operator: M My	
Date:	Time:0815
Model # TVA 1000	
Serial # # /1 1036346779	
INSTRUMENT INTEGRITY CHECKLIST INSTRUMENT CALIBRAT	
Battery test Pass / Fail	CALIBRATION CHECK Calibration Actual % Gas (ppm) (ppm) Accuracy
Reading following ignition ppm	
Leak test Pass / Fail / NA	500 SOO 1004
Clean system check (check valve chatter)	RESPONSE TIME Calibration Gas, ppm
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	90% of Calibration Gas, ppm <u>U50</u> Time required to attain 90% of Cal Gas ppm 1.
Date of last factory calibration	2. <u>\$</u> 3. <u>\$</u>
Factory calibration record Fass / Fail w/instrument within 3 months	Average 5.0 Equal to or less than 30 seconds? (2) Instrument calibrated to Chy gas.
Comments:	



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site:					
Purpose:	- O				
Operator:	My				
Date:		Time:	0830		
Model # 12 10362	46741				
INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION			
Battery test	Pass / Fail	Calibration	ALIBRATION CHE	%	
Reading following ignition	_21(_ppm	Gas (ppm)	(ppm) ————	Accuracy	
Leak test Clean system check (check valve chatter)	Pass / Fail / NA Pass / Fail / NA	Calibration Gas, p		Soo	
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	Pass / Fail / NA	1(attain 90% of Cal C	Gas ppm	
Date of last factory calibration	10-1-27	100	<u> </u>		
Factory calibration record w/instrument within 3 months	Pass / Fail	Average © Equal to or less the Instrument calibra			
Comments:					



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Date:		Time:	0845	
Model #	46775			
INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
		CALIBRATION CHECK		
Battery test	Pass / Fail	Calibration	Actual	%
Reading following ignition		Gas (ppm)	(ppm)	Accuracy
		500	500	100%.
eak test	Pass / Fail / NA		DECDONOR TO 45	_
Clean system check	Pass / Fail / NA	RESPONSE TIME		
check valve chatter)	G37.1 3 / W/	Calibration Gas, p		500
de cumple processes access	60,500	90% of Calibration		450
d₂ supply pressure gauge acceptable range 9.5 - 12)	Pass / Fail / NA	The required to attain 50 % of Gai Gas ppin		
	1005.26	1. 2.	5	
Date of last factory calibration	10-1-22	3.		
actory calibration record	Pass / Fail		3.3	
/instrument within 3 months	Equal to or less than 30 seconds?			
		Instrument calibra	ited to CHY	_gas.



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site:				
Purpose:				
Operator:	()M			
Date: 10-1-27		Time:	0930	
Model # TVA 1000)			
Serial # #16 11027	146776			
INSTRUMENT INTEGRITY	CHECKLIST	INST	RUMENT CALIBRA	TION
Battery test	Pass / Fail	CA Calibration Gas (ppm)	ALIBRATION CHEC Actual (ppm)	K % Accuracy
Reading following ignition		500	500	100%
Leak test	Hass / Fail / NA		RESPONSE TIME	
Clean system check (check valve chatter)	Pass / Fail / NA	Calibration Gas, p	opm <u>S</u>	00
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	Fass / Fail / NA	90% of Calibration Time required to a 1.	attain 90% of Cal G	SO as ppm
Date of last factory calibration	10-1-27	2. 3.	5	
Factory calibration record w/instrument within 3 months	Pass / Fail	Average	an 30 seconds?	Ø N gas.
Comments:				

Environmental Inc. TVA1000B CALIBRATION VERIFICATION

CUSTOMER: NES WATE #	- (0
SERIAL NUMBER:	73
TECHNICIAN:	DATE:

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	[0,003	+/- 2500
< 1	ZERO GAS	0.69	< 3
	PII	D	
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

CUSTOMER: RES VAI	X#11	
SERIAL NUMBER:	174	
TECHNICIAN: My	DATE; _	10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	Fi	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
<1	ZERO GAS	0.60	< 3
	PII	0	
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

CUSTOMER:	RES CO	vit #12	_
SERIAL NUMBER:	(0362)	46741	
TECHNICIAN:	4 My	DATE: /	10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
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	0,51	< 3
	PII	D	
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

CUSTOMER:	MES C	1a 1 # 1	3
SERIAL NUMBER:	11027	46775	
TECHNICIAN:	4 M	DATE:	10-1-27

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.61	< 3
	Pil	0	
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS_(ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	1	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

CUSTOMER:	ES Vact #16	
SERIAL NUMBER:	1102746776	
TECHNICIAN: My	M DATE	:: _ 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	(0,000	+/- 2500
< 1	ZERO GAS	0,61	< 3
	PII	D	
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



Intermountain Specialty Gases

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



"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

Composition Certification Analytical Accuracy (+/-)

Oxygen

20.9 %

2%

Nitrogen

Balance UHP

Lot# 20-7421

Mfg. Date:

5/20/2020

Expiration Date:

Transfill Date:

see cylinder

Parent Cylinder ID NY02268

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:

5/20/2020

rioSupply Service Concentration (Mole%)

Accuracy

-20.9% Oxygen - Bal. Nitrogen

ats 3.6fts @ 70°F and 1,000 PSIG

Lot#: 20-7421

P/N:01-100

103 L

M Kaiser Avenue, Irvine, CA 92614 57-0353 or (800) 201-8150 Fax (949) 757-0363

103-01-100



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CERTIFICATE OF ANALYSIS

Composition

Certification

Analytical Accuracy

Methane

25 ppm

 $\pm 5\%$

Air

Balance

Lot#

17-6074

Mfg. Date:

10/16/2017

Parent Cylinder ID

17161

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By: Tony Janquart Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017





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CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

 $\pm 5\%$

Lot #

17-6074

Mfg. Date:

10/16/2017

Parent Cylinder ID

17161

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

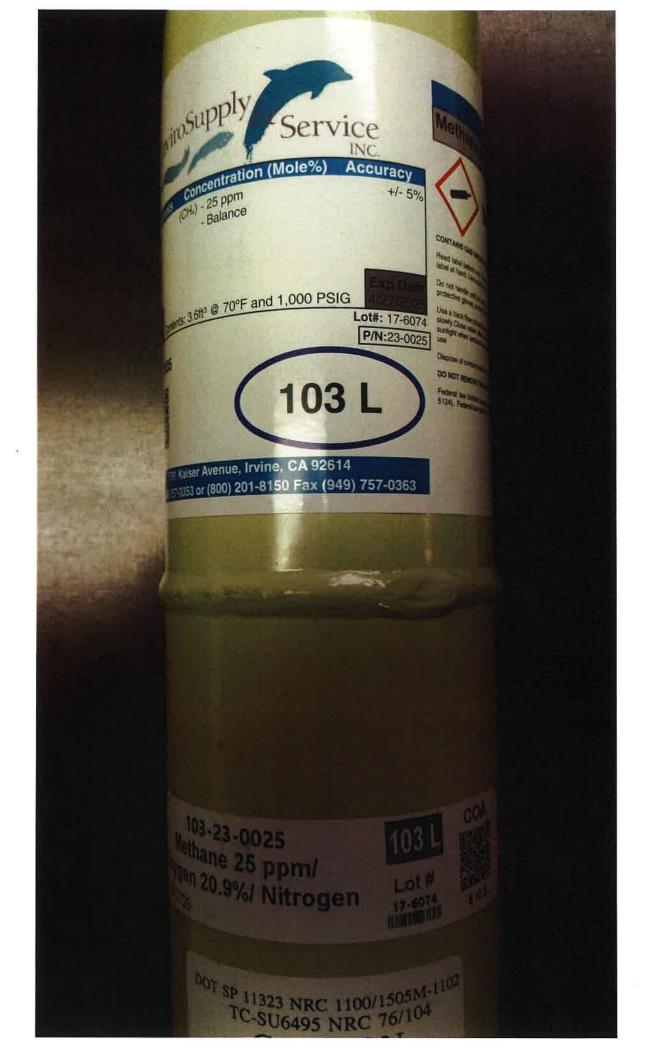
Method of Analysis:

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

Analysis By: Tony Janquart Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017



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CERTIFICATE OF ANALYSIS

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

Lot# 20-7497

Mfg. Date: 7/10/2020

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID 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

Methane (0.0 Service INC. nitration (Mole%) Accuracy +/- 2% and ppm adunce CONTAINS GAS UNDER PRESENT Road label before use respective label at hand. Use expect at hand Do not handle until at part properties gloves, protective gloves, prot 1,000 PSIG Use a back flow proverties bears slowly Close valve after cot as a sumlight when anxiety access Lot#: 20-7497 P/N:23-0500 Dispose of content and y or DO NOT REMOVE THE PRODU 103 Foderal law forbids have 5124). Federal law process wkenue, Irvine, CA 92614 201-8150 Fax (949) 757-0363 103 L To all ppm/ Lot# Nitrogen



INTERMOUNTAIN SPECIALTY GASES

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CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

500 ppm

Balance

Analytical Accuracy

 $\pm 2\%$

Lot#

19-6955

Mfg. Date:

7/24/2019

Parent Cylinder ID

001763

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By: Tony Janquart Quality Assurance Manager

800-552-5003

Certificate Date: 7/24/2019



Intermountain Specialty Gases

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



"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

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

Lot# 18-6641

Mfg. Date: 12/18/2018

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID 001763

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

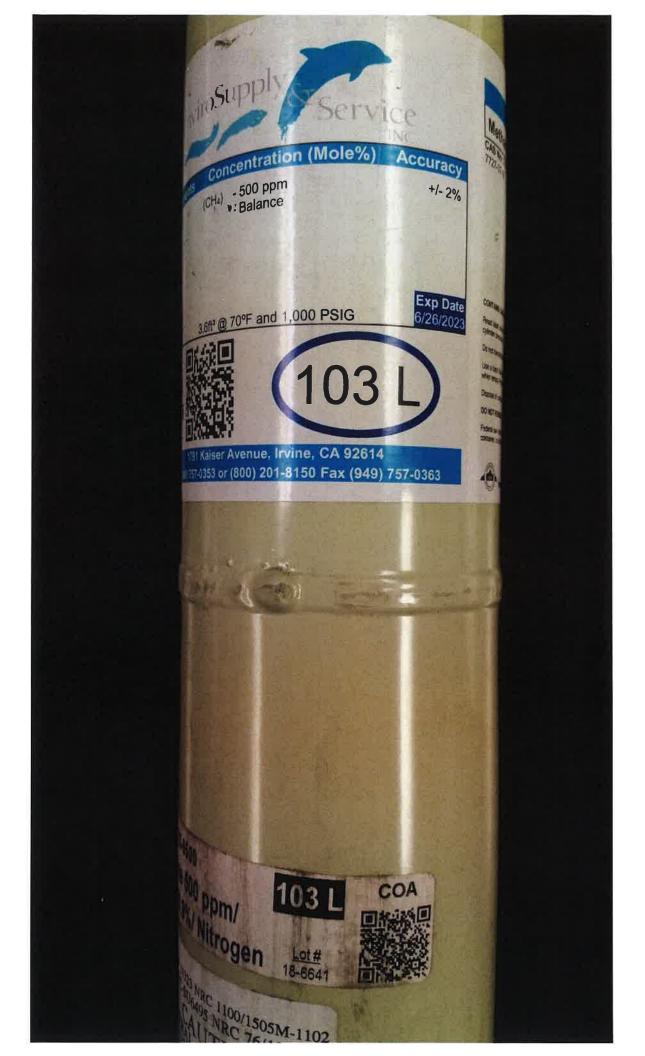
Analysis By:

Title:

Tony Janquart Quality Assurance Manager

Certificate Date:

12/18/2018





· Calibration Gases & Equipment .

CERTIFICATE OF ANALYSIS

Premier Safety & Service

46400 Continental Drivve Chesterfield ,MI 48047 Cust Number 07152 Order Number 62891146 PO Number 04548169

Lot Number Norlab Part# 9-326-80 J1971500PA

Cylinder Size

103 Liter

Number of Cyl

1 1

Customer Part# N/A

Date on Manufacture

12/31/2019

Expires

12/2022

Analytical Accuracy

+/- 2 %

Component
Methane
Air

Reported Concentration

500 ppm Balance Requested

Concentration

500 ppm Balance

Storage:

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

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

NIST Traceable Numbers 20180519 and 20180224

-proved:

David Reed

Date Signed

12/31/2019

Lab Technician



\$10.962.7837 com

46400 Continents Chesterfield, MI as

mponents

Sant

Concentration (Mole

500 ppm Balance

0 135-81

+2%

19971500PA

M3Liters-3.6Cu.Ft.,-1000psig

MFG Date:

Exp. Date:

11/11/2020

11/2023

CALIBRATION GAS



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

Reported
Concentration
Zero Grade
20.9 %
< 1.0 ppm
Balance

Requested
Concentration
Zero Grade
20.9 %
< 1.0 ppm
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 son premiers afety.com

33596 Starling Halls

Components

prygen TH.C. (as Methane)

Concentration (Mr.

Zero Grade 20.9 % < 1.0 ppm Balance

2-154-85

Certified

J1002

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

MFG Date:

Exp. Date:

6/13/2022

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 69671309 PO Number 08361523

Lot Number Norlab Part#

2-108-80 J1971500PA

Cylinder Size

Number of Cyl 1

103 Liter

Date on Manufacture **Expires**

6/10/2022 06/2025

Analytical Accuracy

+/- 2 %

Customer Part# N/A

Component Methane Air

Reported Concentration 500 ppm Balance

Requested Concentration 500 ppm 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:

eles Lab Technician

Date Signed:

6/10/2022



800.962.7837 sur-premiers afety.com 33596 Sterling Parks Sterling Heights in

Components

Methane

Concentration (Mole

500 ppm Balance

2-108-80

Accuracy: +/- 2 %

J1971500PA

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

MFG Date:

5/5/2022

Exp. Date:

05/2025

CALIBRATION GAS



APPENDIX F

SURFACE EMISSIONS MONITORING REPORTS- CONTINUED



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

September 21, 2022

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

Re: Third Quarter 2022 Surface Emissions and Component Leak Monitoring Report for the Kirby Canyon Recycling and Disposal Facility

Dear Ms. Azevedo:

This monitoring report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Third Quarter 2022 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 walking pattern as depicted the 2011 KCRDF AB-32 SEM Plan, which traverses each monitoring grid. Additionally, in accordance with the provisions of 40 CFR 60.753(d) and 60.755(c)(1-3), the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was calibrated to 500 parts per million by volume (ppm_v) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a) and NSPS. The FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d) and CCR Title 17 §95471(c)(2).

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

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

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

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

Integrated Surface Emissions Monitoring

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm_v for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 3 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(2).

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

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

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

Component Leak Monitoring Procedures

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

- Leaks between 500 and 999 ppm_v must be corrected and re-monitored within 10 days of the initial exceedance.
- Leaks at or above 1000 ppm_v must be corrected and re-monitored within 7 days of the initial exceedance.

THIRD QUARTER 2022 SEM AND COMPONENT LEAK RESULTS

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

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on August 3, 2022, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppm_v

There were 5 exceedances of 500 ppm_v as methane detected on August 3, 2022. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on August 4, 2022).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on August 4, 2022. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on August 29, 2022. All locations were observed at less than 500 ppm_v.

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

There were no readings between 200 ppm_v and 499 ppm_v as methane detected during the initial monitoring event on August 3, 2022. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm_v but below 500 ppm_v are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on August 4, 2022, in accordance with the ACO and requirements outlined in CCR Title 17 §95469.

Initial Monitoring Event Exceedances of 25 ppm_v

There were no grids with exceedances of 25 ppm_v as methane detected during the initial monitoring event on August 4, 2022.

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

Component Leak Monitoring Results

Component leak monitoring was conducted per the applicable requirements on August 3, 2022. No leaks greater than 500 ppm_v were identified. Please see Attachment C, for details.

WEATHER CONDITIONS

Wind Speed Conductions during the Surface Emission Monitoring Events

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

Precipitation Requirements

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

EQUIPMENT CALIBRATION

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

Ms. Becky Azevedo Page 6

of 25 ppm_v in air for integrated sample analyses and 500 ppm_v in air for instantaneous monitoring to comply with the requirements.

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

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

Thank you, Waste Management

Rajan Phadnis

Environmental Protection Specialist

Attachment A – Instantaneous Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment C – Component Leak Monitoring Event Records

• Component Leak Exceedances and Monitoring Logs

Attachment D - Weather Station Data

• Strip Chart Data

Attachment E - Calibration Records

• Instrument and Gas Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

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

2022 QUARTER: 3

PERFORMED BY: RES/WM

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
31	119	8/3/2022	11,000	135
11	101	8/3/2022	776	48
1	143	8/3/2022	600	70
2	59	8/3/2022	1,800	118
3	52	8/3/2022	10,000	160

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES/WM

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Initial Monitoring Event				1st 10-day Follow-Up			1st 30-day Follow-Up				
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	Comments-Well locations
31	8/3/2022	11,000	8/4/2022	Becs increase to fully open/added water & pack soil	8/4/2022	15		8/29/2022	9		135
11	8/3/2022	776	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	12		8/29/2022	7		48
1	8/3/2022	600	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	13		8/29/2022	11		70
2	8/3/2022	1,800	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	17		8/29/2022	19		118
3	8/3/2022	10,000	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	30		8/29/2022	22		160

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES/WM

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Initial M	Initial Monitoring Event				1st Re-mon Event - 10 Days			· 10 Days	
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	Comments-Well locations
119	8/3/2022	11,000	8/4/2022	15	-	-	-	-	135
101	8/3/2022	776	8/4/2022	12	-	-	-	-	48
143	8/3/2022	600	8/4/2022	13	-	-	-	-	70
59	8/3/2022	1,800	8/4/2022	17	-	-	-	-	118
52	8/3/2022	10,000	8/4/2022	30	-	-	-	-	160
								-	

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

2022 QUARTER: 3

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

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

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

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

2022 QUARTER: Q3

INITIAL MONITORING PERFORMED BY RES

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: KCRDF Wind Direction: NE Wind Direction: S Wind Speed: 10 Wind Speed: 5

Initial	Monitorin	g Event	O	Corrective action within 5 days	1st 1	0-day Follow	/-Up	1st 30	-day Follo	ow-Up	Comments
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	WELL
31	8/3/2022	11000ppm	8/4/2022	Becs increase to fully open/added water & pack soil	8/4/2022	15		8/29/2022	9		135
11	8/3/2022	776ppm	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	12		8/29/2022	7		48
1	8/3/2022	600ppm	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	13		8/29/2022	11		70
2	8/3/2022	1800ppm	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	17		8/29/2022	19		118
3	8/3/2022	10000ppm	8/4/2022	Becs increase to fully open/added & pack soil	8/4/2022	30		8/29/2022	22		160
	·				•						
	·	·			·						

KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIS A NADE JOS & REZO

CSLVIN ORFIZ

ARRENDO MERFINEZ

Cal. Gas Exp. Date: 69-23

Date: 8-3-22 Instrument Used: +VA1000 Grid Spacing: 251

Temperature: 65 Precip: 0 Upwind BG: 2-4 Downwind BG: 2-8

GRID ID	STAFF	START	STOP	тос	WIN	ID INFORM	MATION	REMARKS
	INITIALS	TIME	TIME	РРМ	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
37	LW	0930	09 \$5	85	2	3	14	
41	CO	6930	0945	27	2	3	14	
42	ND	0930	0945	120	2	3	14	
43	yn	0830	0845	85	2	3	14	
44	An	0970	0945	36	2	3	14	
47	LW	0941	1060	74	2	3	14	
48	20	0945	1860	163	2	3	14	
49	ND	0945	1000	74	2	3	14	
52	yn	0945	1000	10,000	2	3	14	WELL. 160
53	AM	0945	1000	134	2	3	14	
54	LW	1000	1015	60	2	2	14	
55	Co	1000	1665	40	2	2	14	
57	NO	1000	1015	14	2	2	14	
58	- In	1000	1015	107	2	2	14	
59	Am	1000	1015	1,800	2	2	14	WELL 118
60	LW	1011	1030	94	2	3	14	
61	CD	1015	1030	40	2	3	14	
64	NB	1015	1000	16	2	3	14	
65	yn	1015	1030	51	2	3	14	
6-6	AM	1015	1030	94	2	3	14	
67	LW	1030	1045	120	2	3	14	
68	20	1020	1045	115	2	3	14	
70	NB	1030	1045	13	2	3	14	
7/	Ja	1030	1645	46	2	3	14	
72	AS	1030	1045	58	2	3	14	T
73	LW	1045	1100	65	3	4	14	
74	CO	1045	1100	50	3	4	14	
75	ND	1645	1100	32	3	4	14	
79	SA	1045	1100	15	3	4	14	
80	19-3	1045	1180	45	3	H	14	

Attach Calibration Sheet

Attach site map showing grid ID

Page __/_ of _____

KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnei: LEIGHWADE JOSH RAZO

CECUIN ORT. 2

ARMONDO MONTINEZ

NICK OSNICI Cal. Gas Exp. Date: 6-8-23

Date: 8-3-22 Instrument Used: 4V41060 Grid Spacing: 25/

Temperature: 68 Precip: D Upwind BG: 2-4 Downwind BG: 2.8

GRID ID	STAFF	START	STOP	тос	MIN	ND INFORM	MATION	REMARKS
	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
8/	LW	1100	1115	97	3	4	14	
82	20	1100	1115	64	3	4	14	
83	NB	1100	1115	25	3	4	14	
86	m	1100	1115	29	3	4	14	
87	AM	1100	1115	75	3	4	14 .	
88	LW	1115	1130	60		3	14	
89	CO	145	1/20	31	i	3	14	
90	ND	1115	1130	15		3	14	
94	32	1115	1130	2 >	1	3	14	0 =
95	An	1115	1130	40		3	14	
96	LW	1200	1215	41	2	4	14	
97	co	1200	1215	18	2	4	14	
101	ND	1200	1211	776	2	4	14	WE1148
182	·yn	1200	1211	76	2	4	14	
103	12	1200	1215	36	2	4	jet	
104	LW	1215	1230	30	3	5	14	
105	CO	1215	1230	20	3	6	14	
109	NO	1215	1230	18	3	5	14	
110	pn	1215	1200	62	3	5	14	
111	An	1215	1230	40	3	5	14	
122	LV	1270	1245	26	3	5	14	
116	20	1230	1245	19	3	5	14	
117	NA	1230	1245	31	3	5	14	
118	on	1200	1245	15	3	5	14	
119	An	1230	1245	11,000	3	5	14	WEIL 135
120	LW	1245	1300	19	3	5	14	13
124	CD	1245	1310	16	3	5	14	
125	NO	1245	1300	1)	3	5	14	
124	on	1245	1300	1)	3	S	14,	
2>	AM	1245	1300	2)	3	5	14	

Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: 1 Eighwark CELVIN ONLIZ	Josh RETO Annon mention	-
NILIC Benjes		Cal. Gas Exp. Date: 69-23
Date: 8-3-22 Instrument U		id Spacing: 25
Temperature: Precip:	D Upwind BG: Z. 4	Downwind BG: Z. 8

GRID ID	STAFF	START	STOP	тос	WIN	ND INFORM	NOITAN	REMARKS
	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KLMAKKS
128	LW	1300	1315	16	3	5	13	in .
132	00	1300	1315	25	3	5	13	
133	NB	1300	1315	16	3	5	13	
134	JN	1300	1315	28	3	5	13	
135	AM	1300	1315	16	3	5	13	
136	LW	1315	1330	22	5	6	14	
137	Co	1315	1330	11	5	6	14	
138	NB	1325	1330	21	5	6	14	
139	on	1315	1330	14	5	V	14	
190	AM	1315	1330	12	5	6	14	
141	LW	1330	1395		5	6	14	
142	CO	1335	1345	27	5	6	14	
143	ND	1335	124	600	5	6	14	WE1170
144	JA	1330	1345	25	55	6	14	
145	AM	1330	1345	18		6	14	
147		1745	1400	16	5	6	14	
148	0	1345	1400	22	5	6	14	
149	NB	1341	-	26	5	4	14	
150	AM	1345	1400	27	5	6	14	
100		1010	1400	18	5	6	IH	
			-					

Attach Calibration Sheet Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

	2 2 2								Date:
emperat	ture:	Pre	cip:	Up	wind BG:		Down	wind B	G:
GRID ID	STAFF	START	STOP	тос	WIN	ID INFOR	MATION		REMARKS
	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT		REMARKS
76		START S						Act	ve-tase
77									1
84								1	
91									
58									
99									
106									
10>									
113									
121									
29								-	V
1					1			NOW.	Astringi
Z 3		-							1
4									
5									-
6					0				
7									
9)							
					-				
10									
12									
13									
14									
15									
									-
16									
18						-		_	1

Attach Calibration Sheet Attach site map showing grid ID

Page _____ of ____3__

KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:	LEIShw.	10E				
					Cal. Gas	Exp. Date:
Date: 🧣	3-22	Instru	ment Used	d:	Grid Spacing:	
Temperat	ure:	Pre	cip:	Uри	rind BG: Downw	vind BG:
GRID ID	STAFF	START	STOP	тос	WIND INFORMATION	REMARKS

GRID ID	STAFF	START	STOP	тос	WIN	ID INFOR	MATION	REMARKS
	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KLITAKKS
19								
20								
21								
22								
23								
24								
25			1	-				
26							1	
27								
28								
29								
30								
3/								
32	327-11							
33							1	
34								
20								
36								
36								
39		- I						
80								
45								
46					1			
58								
51								
56								
62								
63								
69								
78								V

Attach Calibration Sheet Attach site map showing grid ID

Page $\frac{2}{2}$ of $\frac{3}{2}$

KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

17								Exp. Date:
ate: <u>8</u>	-3-22	Instrur	ment Used	d:		Gri	d Spacing:	
								ind BG:
GRID ID	STAFF	START	STOP	тос	WIN	ID INFORM	MATION	REMARKS
	INITIALS	TIME	TIME	РРМ	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KLMAKKS
85								1
93								
100						1		
108								
114								
122								
123							10.5	
30								
31								1
	7							
		10						

Attach Calibration Sheet Attach site map showing grid ID

Page 3 of 3

Orange Flag Landfill Surface Emissions Monitoring Exceedances and Monitoring Log

KIRBY

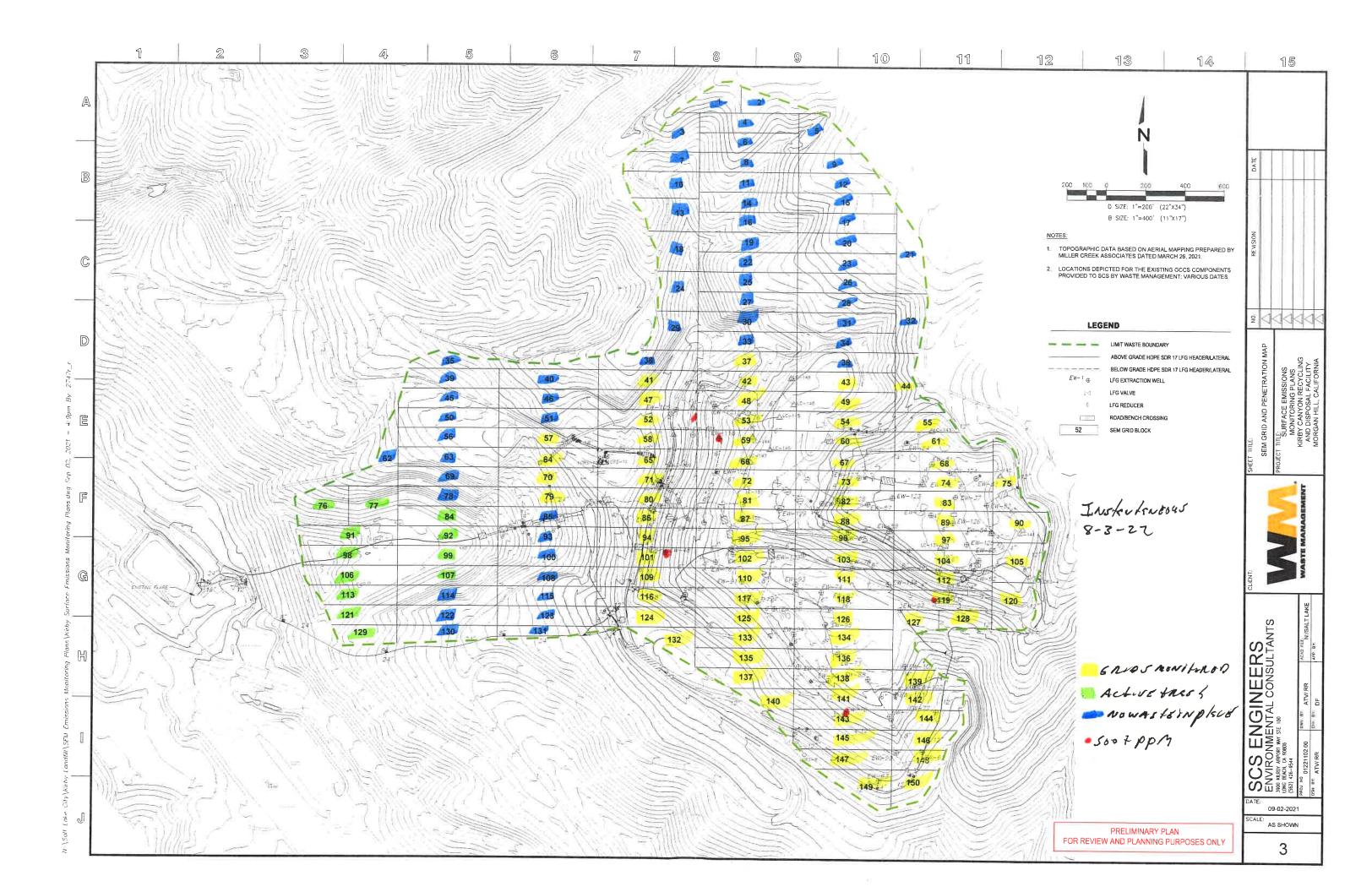
		61											Page of	Pages
Technician:		1 4 PM 2	NAOK											
Instrument:		47410	0001											
Calibration Standard:	standard:	ndard: Soop	by w											
	Initial M	onitoring Event		First Re-M	First Re-Monitoring Event - 10 Days	- 10 Days	Second Re-	Second Re-Monitoring Event - 10 Days	nt - 10 Days	30-Day	30-Day Follow-up Monitoring	nitoring	Comments	
Flag	Grid	Field Reading	Date	Date	No Excd.	Excd.	Date	No Excd.	Excd.	Date	No Excd.	Excd.		
Jer -	Number .	(mdd)	Monitored	Monitored	<500 ppm	>500 ppm	Monitored	<500 ppm	>500 ppm	Monitored	<500 ppm	>500 ppm		
3	119	11,000	8-3-27										WE11 135	
11	101	776											8 % Iram	
	143	900											WE1170	
7-0	59	1800											W#11 118	
	25	10,000	>										W#11/160	
			•										1	
0														
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0-														
														1

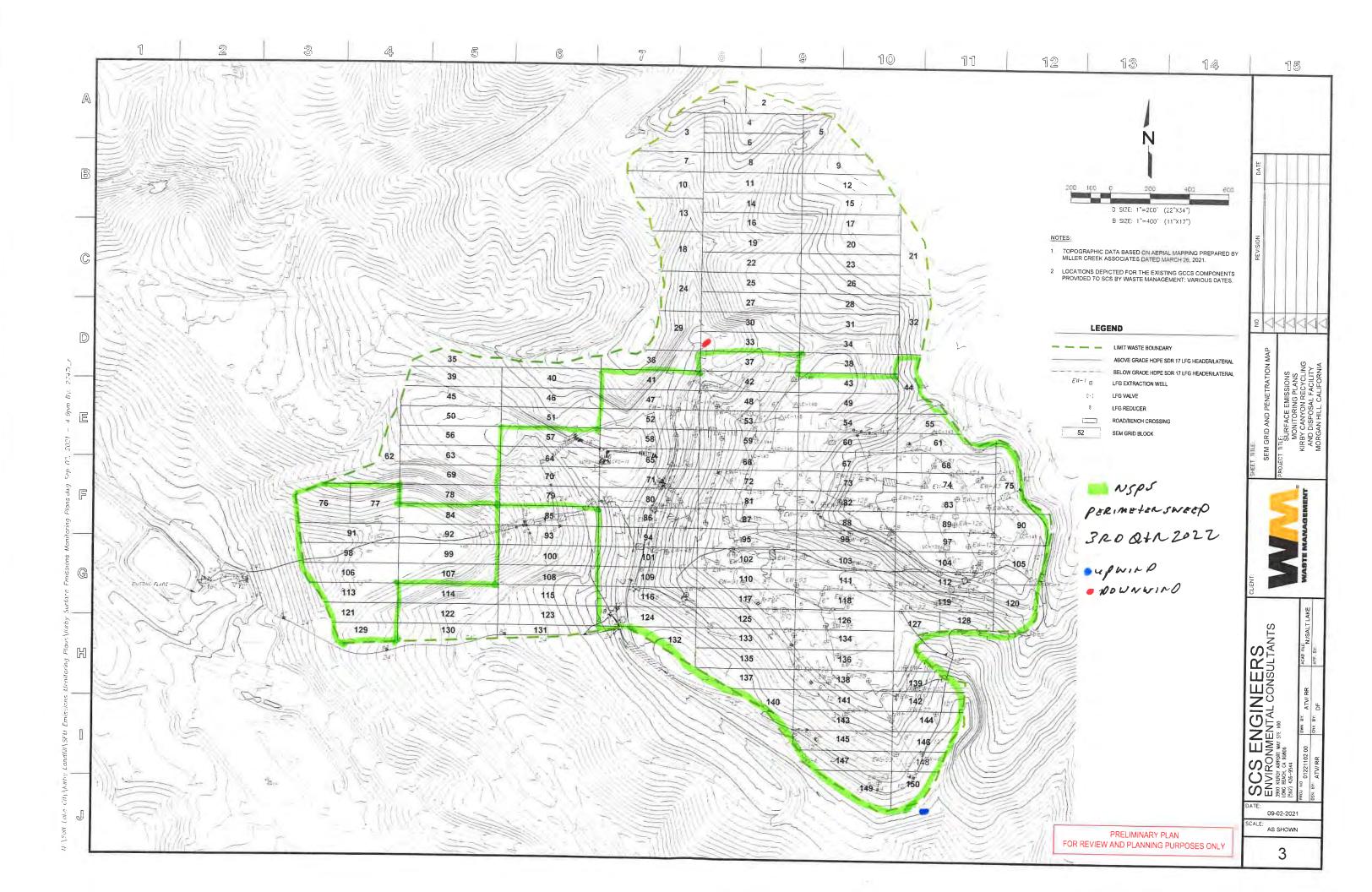
KIRBY LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 10-28-2021

NOTES																		77																									
READING (PPM)	75	60	707	20	120	200	26	1.5	35	05	134	76	36	45	75	26	5%	11	09	1 74	70	65	090'01	62	2.9	11	776	115	4/	50	64	39	71	2.7	30	1 61	009	3/	2.5	17	3/	25	2/
DATE	72-8-8																																				7					-	2
BLOCK NO.	71	65	58	47	42	97	112	06	75	55	53	99	42	72	87	5,7	7. 20	6.9	24	ورم	6.3	2,5	5.5	25	98	127	101	89	97	74	82	96	148	149	104	116	143	143	144	118	89	102	.00
LONGITUDE	-121,6713388	-121.6712074	-121,6712086	-121.6708234	-121.6706235	-121.6662637	-121,6661685	-121,6652963	-121.6654991	-121.6664707	-121.6693456	-121.6697507	-121,6690856	-121.6699511	-121.6697709	-121.668656	-121.668981	-121,669257	-121,669166	-121.668561	-121.665918	-121.669906	-121.670208	-121.670388	-121.6715554	.121.6672322	-121.6712309	121,6667349	-121,6660124	-121,6668334	-121,6678545	-121.6675554	-121.6667604	-121.6674273	-121.6658706	-121.6709201	-121.6680954	-121.6674111	-121.6665381	-121,6684259	-121.6666446	-121.670374	
LATITUDE	37.1858544	37.1861615	37.1865715	37.1869514	37.1871774	37.1851287	37.1851745	37.1852798	37.1860808	37.1862571		37.1861606	37.1872639	37:1858384	37.1854474	37.187298	37.187069		37.186235	37.185945						37.1841969	37.1849125									37.1843777		37.1828801 -1		37,1844741 -1	37,1855639 -1	37.1847177 -1	Ì
POINT TYPE	LFG Collector - Standard		15				1				-										-				LFG Collector - Standard 3					_		-	LFG Collector - Standard 3	LFG Collector - Standard 3.	LFG Collector - Standard 3.	3	İ						
DESCRIPTION	LC-108 /	LC-109 🗸	LC-110 🖊	LC-111 C	LC-112 /	LC-139 ~	LC-140 🖊	-	LC-142 🗸	LC-143 🖊	LC-145 —	LC-147 —	1	LC-151	LC-152 /	LC-153 🖊	LC-154 🖊	LC-155 🦯	LC-156 ✓	LC-157	11	LC-159 🗸	\			EW-27	EW-48			EW-56		EW-58 €	EW-62	EW-63 /	EW-65	∠ 99-M∃	EW-70 ~	EW-71.	EW-72 C	EW-74	EW-75 ~	EW-76 C	
Foint ID	49175	49176	49178	491.80	49181	60315	60316	60317	60318	60319	60322	60326	60328	60331	60332	65781	65782	65783	65784	65785	65786	65787	65788	68789	22752	22756	22773	27238	33387	33389	33390	33391	33395	33396	33398	39441	39445	39446	39447	39449	39450	39451	
¥]	Z	2	K3	좌	5	K6	7	8 8	63	K10	K11	K12	K13	K14	K15	K16	K17	K18	K19	K20	K21	K22	K23	K24	K25	K26	K27	K28	K29	K30	K31	K32	K33	K34	K35	K36	K37	K38	K39	K40	K41	K42	

KIRBY LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 10-28-2021

TE READING NOTES	22 25	ah	25	15	12	76	7.)	29	h!	1.5	1 91	1.1	11	11	77	02	14	7.7	7.7	2081	50	63	55	90	4.5	62	ah	31	29	53	24	35/	. 54 :	Qh	11,000	
DATE	8-3-3	-			/	-		0					2	- 7																						
SEM GRID BLOCK NO.	83	61	82	96	138	102	138	all B	118	111	133	126	136	125	148	127	139	142	47	59	87	48	72	82	82	74	65	88	73	82	80	80	103	111	119	400
LONGITUDE	-121,6658484	-121.6671679	-121.6686993	-121,6681567	-1.21,667728	-121.6700714	-121,6686558	-121,6699698	-121.6681463	-121.6690086	-121,6690093	-121.6685091	-121,6689421	-121.6691791	-121.667186	-121.667054	-121.6670075	-121.6672975	-121,6711534	-121,6704025	-121.6706102	-121.6704699	-121,6704487	-121,6673885	-121,6663665	-121.6661443	-121.6669166	-121.6679479	-121,6683291	-121.6693602	-121,6713393	-121.6708386	-121.6688906	-121.6673614	-121,6665942	00000000
LATITUDE	37.1858616	37.1864778	37,1855907	37.1852233	37,1831824	37.1848945	37.1834937	37,1845284	37,1842745	37.1846024	37,1837826	37.183988	37,1834011	37.1841664	37.1822657	37.1834129	37.1833032	37.1830105	37.186772	37,1865144	37 1853394	37.1869645	37.1860822	37.185714	37.1861053	37.1850526	37,185,4463	37,1859883	37,1856942	37.1855239	37.1856391	37.1865955	37.18491.	37.1844936	37.1843228	000000000000000000000000000000000000000
POINT TYPE					7-53				LFG Collector - Standard		100					Ţ		LFG Collector - Standard	LFG Collector - Standard	_	LFG Collector - Standard					LFG Collector - Standard										
DESCRIPTION	EW:82 ~	►W-84 ✓	€W-86 ✓	EW-87	EW-88	EW-89 🗸	EW-90	EW-91	EW-92	EW-93	EW-9#: /	EW-95	EW-97	EW-98	EW-99	EW-101	EW+102	EW-103	EW-105	EW-118	EW-119	EW-121 /	EW-122	EW-123	EW-124	EW-125 ~	EW-126	EW-127 ~	EW-128 ~	EW-129 ~	EW-130	EW-131 ~	EW-133	EW-134 ~	EW-135	
Point ID	39457	39459	39461	39462	41:794	41795	41796	41797	41798	41799	41800	43784	43786	43787	43788	46300	46301:	46302	48252	51853	51854	51856	51857.	55175	55176	55177	55178	55179	55180	55181	55182	55183	55185	55186	55187.	
¥	K44	K45	K46	K47	K48	K49	K50	K51	K52	K53	K54	K55	K56	K57	K58	K59	K60	K61	K62	K63	K64	K65	99X	K67	K68	K69	K70	K71	K72	K73	K74	K75	K76	K77	K78	





Attachment B

Integrated Surface Emission Monitoring Event Records

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES FOLLOW-UP MONITORING PERFORMED BY: N/A

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Initial Mor	nitoring Ev	ent	1st Re-mo			
Exceedance	Monitoring	Field	Monitoring	No Exced.	No Exced.	_
Grid ID No.	Date	Reading	Date	<25 ppm	>25 ppm	Comments
None						

Personnel LEIGH WADE

CALVIN ORFIR

NICK BENKS

TOS & REZO

ANDONDO MERTINEZ Cal. Gas Exp. Date: 6-9-23

Date: 8-4-22 Instrument Used: +VA 1000 Grid Spacing: 25/

Temperature: 60 Precip: 0 Upwind BG: 2-4 Downwind BG: 2-8

GRID	STAFF	START	STOP	TOC	WIN	ID INFOR	MATION	DEMARKS
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
37	LW	0530	0555	11-65	V	8	14	
41	60	0530	8851	13.51	4	8	14	
42	NB	0830	0555	16.82	6	6	14	
43	7h	0530	3855	14-57	6	6	14	
44	AM	0530	0885	10.21	6	6	14	
47	12	0555	0620	12.60	6		14	
48	w	0555	0620	17-56	6	G	14	
49	ND	0555	0620	15.02	6	6	14	
52	on	0885	0620	14.98	6	C	14	
53	An	0555	0820	17.26	6	8	1-4	
54	LW	0620	0645	15.55	5	7	14	
55	CD	0620	0645	9-70	5	7	14	
5>	NB	0620	0645	5.80	-5	7	14	
58	-on	0620	0645	10.24	5	7	14	
59	An	0820	0845	12-60	5	7	14	
60	LU	0645	0710	19.57	5	7	14	
61	CO	0645	0710	8-50	5	7	14	
64	ND	0641	0710	6-10	5	7	14	
65	3n	0645	0710	7.21	5	7	14	
66	An	0645	0)10	9-13	5	7	14	
67	LW	0710	0735	14.60	5	7	14	
68	CO	0710	0725	8-22	5	7	14	
70	NB	0710	0735	5-23	5	7	14	
21	JN	0710	073	7-45	5	7	14	
72	AS	6718	0735	13.60	5	7	14	
73	LW	0735	0800	16.42	5	7	14	
74	CO	2550	0800	8.11	5	7	14	-
75	NO	0725	0800	6.21	5	7	14	
79	in	0725	0800	6.14	5	7	14	
83	An	5735	0800	6-33	5	7	14	

Attach Calibration Sheet

Attach site map showing grid ID

Page __/_ of __3

Personnel LOIS & WAOE	Josh R420	
NICK BANKS	ARMONDO MORTINE	
Date: 8-4-27 Instrumen	t Used: _fuAloo Gri	Cal. Gas Exp. Date: <u>6-9-20</u> d Spacing: 25'
Temperature: <u>69</u> Precip:	Upwind BG: 24	Downwind BG: Z4 8

GRID	STAFF	START	STOP	тос	WIN	ND INFOR	MATION	DEMARKS
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 15 POINT	REMARKS
81	14	0800	0825	9.40	4	5	14	
87	60	0800	0825	11.7/	4	5	14	
83	ND	0800	0825	6.54	4	5	14	
86	on	0800	0825	6-37	4	5	14	
87	AM	0800	0825	11.40	4	5	14	
88	LW	0825	0850	16-27	3	5	14	
89	60	0825	0850	8.14	3	5	14	
90	NB	0825	0850	6.86	3	5	14	
94	on	0825	0850	7-11	3	5	14	
95	An	0825	0850	6.92	3	5	14	
96	LW	0850	0915	7.45	3	5	14	
97	CD	0850	0915	6.21	3	5 5	14	
101	NB	0810	0515	8.13	-3	5	14	
102	-01	0850	8515	7.74	3	9	14	
103	An	0850	0915	6.14	3	5	14	
104	LW	0915	0940	5.22	3	5	15	
105	co	090	0840	5-39	3	5	15	
109	NA	095	0940	7.60	3	5	15	
110	on	0911	0940	6-81	3		15	
111	AM	0245	0940	6.03	3	5	15	4
112	LW	0940	1005	6.47	2	4	15	
116	20	0940	1005	5-11	2	4	15	
117	NO	0940	1005	5-74	2	4	15	
118	on	0940	100	6-01	2	4	15	
119	AN	0940	1000	5-13	2	4	15	
120	LW	2005	1030	5.81	2.	4	Jef	
124	20	1065	10.70	474	2	4	14	
120	no gn Ars	1005	1030	5.10	2	4	14	
126	gn	1005	1035	8-81	2	4	14	
12>	AM	1005	1030	4.68	2	4	14	

Attach Calibration Sheet

Attach site map showing grid ID

Page Z_{of}

Personnel LEISLWADT CILVIN 0.121.	Josh REZO ARMONDO MENTINEZ	
Date: 8-4-22 Instrument	Used: \(\sum_{1000} \) Gri	Cal. Gas Exp. Date: <u>6-9-22</u> d Spacing: <u>25</u> /
Temperature: 75 Precip: _	D Upwind BG: 2.9	Downwind BG: 2.8

GRID	STAFF	START	STOP	тос	WIN	ID INFOR	MATION	DEMARKS
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
128	LW	1030	1055	4.18	0	0	15	
132	C0	1030	1014	3.74	0	0	15	
133	ND	1000	1855	4.58	0	0	15	
134	on	1030	1055	4.21	0	0	15	
135	Am	1033	1865	5.77	0	J	15	
136	LW	1055	1120	4.23	b	D	16	
133	6	1055	1120	4,60	0	0	ib	
138	NB	1055	1120	5.10	0	0	16	
139	on	1055	1120	4.09	0	0	No.	
140	AM	1055	1120	3.17	0	0	110	
141	LW	1120	1145	3.81	0	0	16	
142	LO	1120	1145	4,25	0	0	16	
143	NB	1120	1145	5.11	0	0	16	
144	-on	1120	1145	3.22	0	0	16	
145	AM	1120	1145	4.85	0	U	10	
146	LW	1145	1210	4.60	0	0	12	
147	CO	1145	12/0	5113	0	0	12	
148	ND	1145	1210	6-12	0	0	12	
145	Th	1145	1210	5.99	0	0	12	
150	AM	1145	1210	5.30	0	U	12	
	ration She		/					

Attach Calibration Sheet Attach site map showing grid ID

Page 3 of 3

-							Cal. Gas Ex			
ate: <u></u> 8	-4-22	_ Instrume	nt Used: _			_ Grid S	Spacing: _			
emperat	ure:	Precip		_ Upwind	1 BG:		Downwin	d BG:		
GRID	STAFF	START	STOP	тос	ııw	ND INFOR	RMATION	250	MARKS	
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	KEI	MAKKS	
76								Activ	e-fassi	
84										
7/										
72										
7						-				
9								1 = 19		
06										
13										
21										
29								+		
1				N. T.				NOWAS	FEINDE	
2	-								/	
4					-				/	
5					-					
6										
>										
8			-,							
9									1	
1			-						-	
2										
13										
4										
5										
6										
5										

Attach Calibration Sheet Attach site map showing grid ID

Page ____ of ____

-							Cal. Gas Exp.	
ate: 5	-4-22	Instrume	ent Used: _			Grid S	pacing:	
emperat	ure:	Precip);	_ Upwind	1 BG:		Downwind I	BG:
GRID	STAFF	START	STOP	тос	WIN	ND INFOR	MATION	REMARKS
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
19								
20								
21								
22								
23						1		
24							- 2	
25					0	7		
26								
てフ								
28								
25								
38					1	1		
3/								
32	-							
30								
33 34 35	-			-				
36								
28	1							
29								
70			,					
15								
46								
- U								
1						-		
-6								
12								
3								

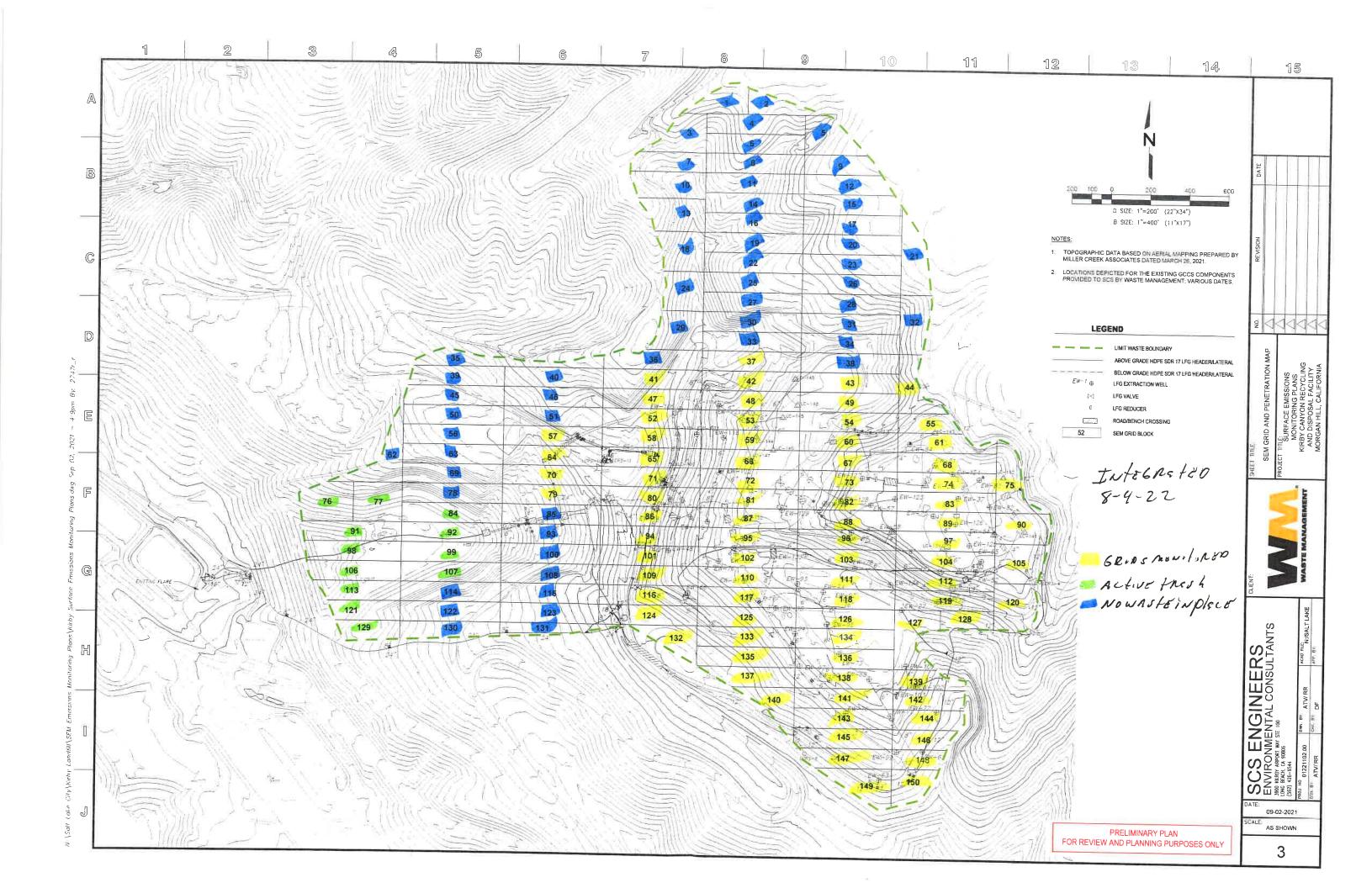
Attach Calibration Sheet Attach site map showing grid ID

Page ____ of ____

•							Cal. Gas Exp.	
ate: 8	-4-22	Instrume	nt Used: _			Grid S	Spacing:	
							Downwind I	
GRID	STAFF	START	STOP	тос	WIF	ND INFOR	MATION	DEMADES
ID	INITIALS	TIME	TIME	PPM	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
28								
93								
108								
14								
115								
22								To the second
23								
30								
3/								
	† †					1-3-1		
	-					1. 7. 5		
							-	
			,					

Attach Calibration Sheet Attach site map showing grid ID

Page 3 of 3



Attachment C

Component Leak Monitoring Event Records

Table C.1

AB-32 Component Leak Monitoring

Summary of Component Leaks Greater than 500 ppmv

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	I	nitial Monitorin	ng	Correc	tive Action	10-Day Remonitoring			
Location	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech	
Flare Station	08/03/22	ND	Leigh wade	=	=	-	-	-	

ND= No Exceedances

Table C.2

BAAQMD Component Leak Monitoring Summary of Component Leaks Greater than 1,000 ppmv

2022 QUARTER:

INITIAL MONITORING PERFORMED BY: RES FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	In	itial Monitoring	g	Correct	tive Action	7-Day Remonitoring				
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech		
Flare Station	08/03/22	ND	Leigh wade	-	-	-	-	=		

ND= No Exceedances

LANDFILL NAME: \mathcal{K} , $\mathcal{B}\mathcal{Y}$ QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID MAKE: Thermo Environr MODEL: TVA 1000 S/N: 103634273

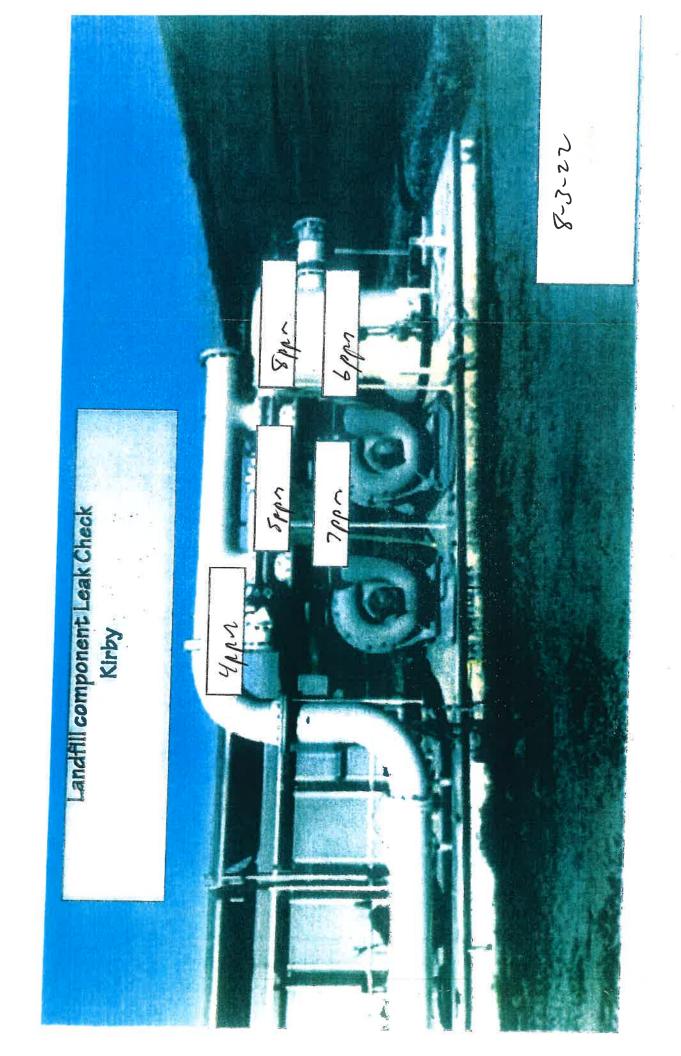
DATE OF SAMPLING: 8-3-22 TECHNICIAN: LEYSH NAOE

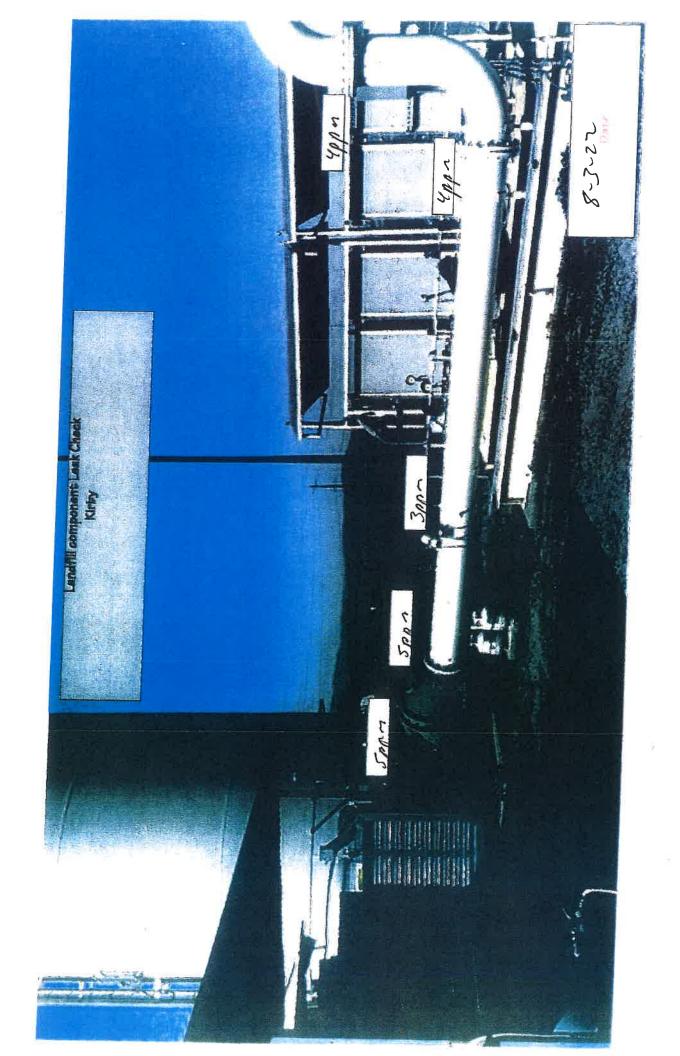
LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE- MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO FRCEBOALCE							
					7		
common challent annual or broken short of money because on the following		11-11-1		Complemental collision of the most of the collision of th	1 1 2 2 2 2 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5		

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

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

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

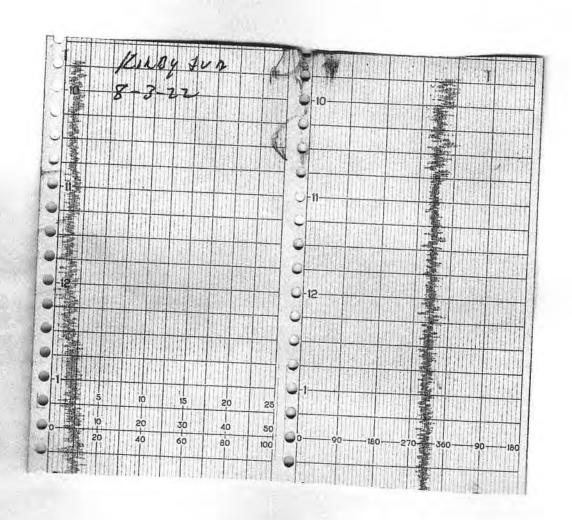




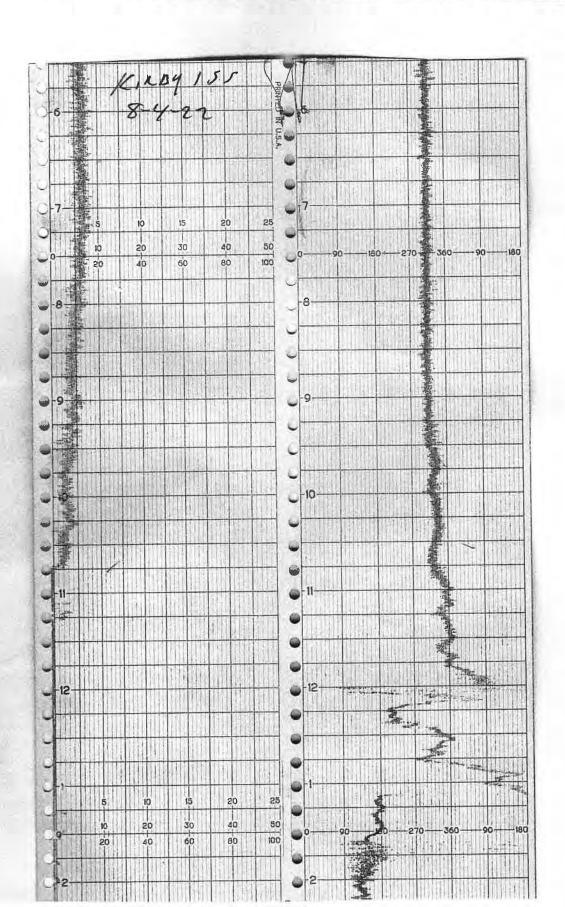
Attachment D

Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL





	Ib-POINT V	VIND DIRECTION	INDEX	
NO	DIRECTION		DEGREES	
		FROM	CENTER	TO
16	NORTH (N)	348.8	369.0	t v1.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056,3	067.5	078.8
4	EAST (E)	078,8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
5	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
3	SOUTH (S)	168.8	180.0	191.3
	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
Ü	SOUTHWEST (SW)	213.8	225.0	430.5
1	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
2	WEST (W)	258.8	270.0	281.3
3	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
4	NORTHWEST (NW)	302.8	315.0	326,3
5	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

Attachment E

Calibration Records



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Purpose:	Misias			_
Date: 8-6-22	70 7112	Time:	0800	
Model #)			
Serial # <u>#10 103639</u>	6713			
INSTRUMENT INTEGRIT	Y CHECKLIST	INST	RUMENT CALIBRA	TION
Battery test Reading following ignition	Pass / Fail	CAlibration Gas (ppm)	ALIBRATION CHEC Actual (ppm)	CK % Accuracy
eak test	ppm Fase / Fail / NA	500	500 RESPONSE TIME	100
Clean system check check valve chatter)	Pass / Fail / NA	Calibration Gas, p	ppm	500
1 ₂ supply pressure gauge acceptable range 9.5 - 12)	90% of Calibration Time required to a 1.	n Gas, ppm <u> </u>	as ppm	
Date of last factory calibration	7-9-27	2. 3.	b 	
actory calibration record //instrument within 3 months	Pass/Fail	Equal to or less th	.১ nan 30 seconds? nted to _ C++	
Comments:				



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Operator:	1 Mipol	-5		
Date: 8-6-27		Time:	0815	
Model #	(16 274			
INSTRUMENT INTEGRITY	CHECKLIST	INSTR	RUMENT CALIBRA	TION
Battery test	Fass / Fail	Calibration	ALIBRATION CHEC	CK %
leading following ignition		Gas (ppm)	(ppm)	Accuracy
eak test	Pass / Fail / NA			
lean system check check valve chatter)	Pass / Fail / NA	Calibration Gas, p	PIII	300
l ₂ supply pressure gauge acceptable range 9.5 - 12)	Pass / Fail / NA	90% of Calibration Time required to a 1.	n Gas, ppm attain 90% of Cal G	4SO as ppm
ate of last factory calibration	9-9-22	2. <u>8</u>		
actory calibration record /instrument within 3 months	Pass/Fail	Average		



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Purpose:	MBrAS			-		
Date: 8-6.27		Time:	0870			
Model #_ TVA 1000	-					
Serial # 12 10362	16741					
INSTRUMENT INTEGRITY	CHECKLIST	INST	RUMENT CALIBRA	ATION		
Battery test	Pass / Fail	C/ Calibration Gas (ppm)	ALIBRATION CHEC Actual (ppm)	CK % Accuracy		
Reading following ignition		\$60	<u> </u>			
Leak test	Ráss / Fail / NA	300		100		
Clean system check check valve chatter)	Pass / Fail / NA	Calibration Gas, p		500		
H ₂ supply pressure gauge acceptable range 9.5 - 12)	Pass / Fail / NA	90% of Calibration Gas, ppm Time required to attain 90% of Cal Gas ppm 1.				
Date of last factory calibration	7-9-22	2	5			
Factory calibration record v/instrument within 3 months	Pass / Fail	Equal to or less th	nan 30 seconds?	Ø N		



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Date: \$-6-27		Time:	0847	
Model # + 13 1102741				
INSTRUMENT INTEGRI	TY CHECKLIST	INSTR	RUMENT CALIBRA	ATION
Battery test	Pass / Fail	CA Calibration	ALIBRATION CHE	CK %
Reading following ignition	2.7 ppm	Gas (ppm)	(ppm)	Accuracy
Leak test	Pass / Fail / NA	560	500	100
Clean system check (check valve chatter)	Pass / Fail / NA	Calibration Gas, p	RESPONSE TIME	5 <i>00</i>
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	Fass / Fail / NA	90% of Calibration		450
Date of last factory calibration	29-22	2. 3.	5	÷
Factory calibration record w/instrument within 3 months	rass / Fail	Average 5 Equal to or less the linstrument calibration		Ø N gas.



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Purpose:	VIII Mai	at C		_
Date: <u>8-6-</u> 22		Time:	0930	
Model #				
Serial # #/6 /102746	<u> </u>			
INSTRUMENT INTEGRITY	CHECKLIST	INSTR	RUMENT CALIBRA	ATION
Battery test	Pass/ Fail	Calibration Gas (ppm)	ALIBRATION CHE Actual (ppm)	CK % Accuracy
Reading following ignition	2(7) ppm	500	\$ 00	(00)
Leak test Clean system check (check valve chatter)	Fass / Fail / NA	Calibration Gas, p	RESPONSE TIME	500
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	Pass / Fail / NA	90% of Calibration Time required to a 1.		Gas ppm
Date of last factory calibration	7-9-27	2. 3.		
Factory calibration record w/instrument within 3 months	Pass Fail	Equal to or less th	nan 30 seconds?	∅ N gas.

CUSTOMER:	MES UN + #10	
SERIAL NUMBER:	1056346773	
TECHNICIAN:	ABUTS DATE:	7-9-27

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	(00)	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0,69	< 3
	PII	0	
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

CUSTOMER:	MAS vat	#11	
SERIAL NUMBER:	103634677	4	
TECHNICIAN:	Aug	DATE: _	7-9-27

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
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	0,52	< 3
	Pil	D	
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS.(ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	1	+/- 12.5
100	100		+/- 25
500	500		+/- 125
<1	ZERO GAS	/	< 3

CUSTOMER:	MES Va U # 12	
		_

SERIAL NUMBER: 1036246741

TECHNICIAN: My MORTS DATE: 9-9-17

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	503	+/- 125
10000	10000	60,000	+/- 2500
< 1	ZERO GAS	0,46	< 3
	Pil)	
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS.(ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	1	+/- 12.5
100	100		+/- 25
500	500		+/- 125
<1	ZERO GAS	/	< 3

CUSTOMER:	DEC WAIT #13
	THE CHILL THE
	11

TECHNICIAN: Myself DATE: 7-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FII	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	09	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	059	< 3
1	PII	0	
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS_(ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	1	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS	/	< 3

TECHNICIAN: Myster DATE: 7-9-27

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	1000	+/- 25
500	500	501	+/- 125
10000	10000	10,021	+/- 2500
< 1	ZERO GAS	0,69	< 3
	PII)	
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS_(ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	0	+/- 12.5
100	100	/	+/- 25
500	500		+/- 125
< 1	ZERO GAS	-/	< 3



LANDFILL NAME: K.NBY		INSTRUMENT MAKE FIFER NO	
MODEL: FUA 1000	/ EQUIPMENT #:	10	SERIAL #: 1036346773
MONITORING DATE: 8-3-	22	TIME:	0925

Calibration Procedure:

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

3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Backg Reading: (Highest in 30 se		Downwind Background Reading: (Highest in 30 seconds)		Background Valu (Upwind + Down 2	
2.4	ppm	2.8	ppm	2.6	ppm

Background Value = 2,6

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using 90% of the Stabilized Reading		zed	Time to Reach 9 Stabilized Readi switching from 2 Calibration Gas	ng after	
#1	507 pp	m	457	ppm	5	
#2	495 pp	m	445	ppm	5	
#3	50/ pp	m	451	ppm	5	
	Calculate Response Time	(<u>1</u> -	-2+3)		5	#DIV/0!
					Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #			Meter Reading Calibration Gas		Calculate Precision [STD – (B)]		
#1	0.1/	ppm	507	ppm	>		
#2	1.09	ppm	455	ppm	5		
#3	0-06	ppm	561	ppm	1		
Calculate Precision	on [STD-B1] + [ST	D-B2] + [\$	STD-B3] X 1 X 500	<u>100</u> 1	0 - 8 6 Must be less than	#DIV/0	

) -			_			00 0
Performed By:	LEISHNADL	Date/Time:	8-	-3-	22	-0	723



CALIBRATION	PROCEDURE	AND BA	CKGROUND	REPORT -	INSTANTANE	OUS
OLITICIA IOLA	INCOLDUITE	MINU DA	CHOCKED	ILLI OILL	INDIANIAN	

LANDFILL NAME: KIRY	INSTRUMENT MAKE + Herro
MODEL: 4UA 1000 EQUIPMENT #:	11 SERIAL #: 1036346774
MONITORING DATE: 8-3-22	TIME: 0925

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.

3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Backgr Reading: (Highest in 30 se		Downwind Back Reading: (Highest in 30 sec		Background Value: (Upwind + Downwing 2	
2.4	ppm	2-8	ppm	2.6	ppm

Background Value = 2-6 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	rement # Stabilized Reading Using 90% of the Stabilized Reading Reading			Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	50/ ppm	45/	ppm	4
#2	452 ppm	442	ppm	4
#3	500 ppm	450	ppm	4
	Calculate Response Time (1	+2+3)		4 #DIV/0!
				Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zer	o Air (A)	Meter Reading 1 Calibration Gas		Calculate Precision [S	STD – (B)]
#1	0.09	ppm	501	ppm	1	
#2	0.04	ppm	492	ppm	8	
#3	0-04	ppm	500	ppm	٥	
Calculate Precision	[STD-B1] + [ST	D-B2] + [9 3	STD-B3] X <u>1</u> X 500	100 1	0.60	#DIV/0!
					Must be less than	10%

Performed By:	calvin ontiz	Date/Time: 8-3-22-0925
Periorinea By:	Citto	Date/Time:



LANDFILL NAME: 1CIA	LBY	INSTRUMENT MAKE: + Henro			
MODEL: JUA 1000	EQUIPMENT #:	12	SERIAL #: 103624674/	/	
MONITORING DATE:	8-3-22	TIME	0925		

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 Backg Reading: (Highest in 30 se		Downwind Back Reading: (Highest in 30 seco		Background Value: (Upwind + Downwind) 2	
2-4	ppm	2.8	ppm	2-6	ppm

Background Value = 2, 6 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading		Time to Reach 9 Stabilized Readi switching from 2 Calibration Gas	ng after
#1	489 ppm	439	ppm	7	
#2	500 ppm	450	ppm	7	
#3	500 ppm	450	ppm	7	
	7	#DIV/0!			
				Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zer	ro Air (A)	Meter Reading Calibration Gas		Calculate Precision	STD - (B)]
#1	0-15	ppm	485	ppm	11	
#2	0-10	ppm	500	ppm	0	
#3	0.08	ppm	500	ppm	0	
Calculate Precision	on [STD-B1] + [S1	D-B2] + [3	STD-B3] X <u>1</u> X 500	100 1	0.73	#DIV/0!
					Must be less tha	п 10%

Performed By	NICL BENKS	Date/Time:	8-3-22	0925
orioninoa by		Date/ HITC		



LANDFILL NAME: (CINBY		IN:	STRUMEN	T MAKE.	Hermo
MODEL: LVA 1000	EQUIPMENT #:_	13		SERIAL #	1102746775
MONITORING DATE: 8-3	-22		TIME:	0225	V ()

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.

2. Introduce calibration gas into the probe. Stabilized reading = _______ ppm

3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Backgr Reading: (Highest in 30 se		Downwind Backg Reading: (Highest in 30 seco		Background Value (Upwind + Dow 2	
2.4	ppm	2.8	ppm	2.6	ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	Calibration Gas Reading		Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	506 ppm	456	ppm	4
#2	Soo ppm	450	ppm	4
#3	508 ppm	450	ppm	4
	Calculate Response Time (1+2+3) 3		#DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zer	o Air (A)	Meter Reading Calibration Gas		Calculate Precision [STD – (B)]
#1	0.14	ppm	506	ppm	6	
#2	0.10	ppm	500	ppm	D	
#3	0.06	ppm	500	ppm	0	
Calculate Precisio	n [STD-B1] + [ST	D-B2] + [5 3	STD-B3] X <u>1</u> X 500	100 1	O-4D Must be less that	#DIV/0!

Performed By Jos & REZD

Date/Time: 8-3-22-0925



LANDFILL NAME KINBY	INSTRUMENT MAKE +HERMO	
MODEL: LVA 1000 EQUIPMEN	11.524.15	76
MONITORING DATE: 8-3-22	TIME 0925	

Calibration Procedure:

1 Allow instrument to zero itself while introducing air.

2. Introduce calibration gas into the probe Stabilized reading = 50 b ppm

3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Backg Reading: (Highest in 30 se		Downwind Backg Reading: (Highest in 30 seco		Background Valo (Upwind + Dow 2	
2.04	ppm	2.8	ppm	2.6	ppm

Background Value = 2.6 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas		Calibration Gas Reading		Time to Reach 9 Stabilized Readi switching from 2 Calibration Gas	ng after
#1	503	ppm	483	ppm	5	
#2	487	ppm	447	ppm	5	
#3	560	ppm	450	ppm	5	
Calculate Response Time (<u>1+2+3</u>) 3					5	#DIV/0!
					Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero	Air (A)	Meter Reading f Calibration Gas		Calculate Precision [S	STD – (B)]
#1	0.09	ppm	500	ppm	7	
#2	0.87	ppm	497	ppm	3	
#3	20.0	ppm	500	ppm	0	
Calculate Precision	on [STD-B1] + [STD- 3	-B2] + [S	STD-B3] X <u>1</u> X 500	100 1	0~40 Must be less than	#DIV/09

Performed By Annound Manhine Date/Time 8-3-22-0925



LANDFILL NAME /CIRBY		INSTRUMENT MAKE +HERTO		
MODEL: LUAIDO	EQUIPMENT #:	10	SERIAL #: /696346773	
MONITORING DATE:	8-4-22	TIME:	0525	

Calibration Procedure:

1 Allow instrument to zero itself while introducing air.

Introduce calibration gas into the probe. Stabilized reading = ______ppm

3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
2-4 ppm	2-8 ppm	2.6 ppm

Background Value = 2.6 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Calibration Gas	90% of the Stabilized Reading		Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas	
#1	24	ppm	21.6	ppm	4
#2	25	ppm	22-5	ppm	4
#3	20	ppm	22.5	ppm	4
	#DIV/0! Must be less than 30 seconds				

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Ze	ro Air (A)	Meter Reading Calibration Ga		Calculate Precision	[STD - (B)]
#1	0-14	ppm	24	ppm	/	
#2	0-09	ppm	21	ppm	0	
#3	0-07	ppm	20	ppm	0	
Calculate Precisio	n [STD-B1] + [S1	D-B2] + [5	STD-B3] X <u>1</u> X 25	<u>100</u> 1	2-3	#DIV/0!
					Must be less tha	n 10%

Performed By LEISh WAOK	Date/Time: 1-4-22	0525
-------------------------	-------------------	------



LANDFILL NAME/L.	NDY	10	ISTRUMENT	MAKE HHORNO
MODEL: LUH1000	EQUIPMENT #: _	_//		SERIAL #: 1036346774
MONITORING DATE:	8-4-22		TIME:	0525

Calibration Procedure:

1. Allow instrument to zero itself while introducing air Introduce calibration gas into the probe. Stabilized reading = _______ppm

3 Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Backgr Reading: (Highest in 30 se		Downwind Background Reading: (Highest in 30 seconds)		Background Valu (Upwind + Down 2	Law on
2,4	ppm	2.8	ppm	2,6	ppm

Background Value = 2, 6 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas		g Using 90% of the Stabilized Reading		Time to Reach 90 Stabilized Reading switching from Z Calibration Gas	ng after
#1	23	ppm	20.7	ppm	6	
#2	25	ppm	225	ppm	6	
#3	25	ppm	22-5	ppm	6	
	Calculate Response T	ime (<u>1</u> -	+2+3)		6	#DIV/0!
					Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zer	o Air (A)	Meter Reading Calibration Ga		Calculate Precision [STD - (E	3)]
#1	0.15	ppm	29	ppm	2.	7
#2	0-10	ppm	25	ppm	Ð	
#3	0.09	ppm	20	ppm	D	_
Calculate Precision	on [STD-B1] + [ST	D-B2] + [S	STD-B3] X <u>1</u> X 25	100 1		IV/0!
					Must be less than 10%	

Performed By	CECUIN	onfir	Date/Time	8-4-22	-0525
Performed By:	CSCUIN	ONYIZ	Date/Time	8-9	20



LANDFILL NAME KINDY	e e	INSTRUMENT	MAKE +HORNO
MODEL LVA1000	EQUIPMENT #: _	12	SERIAL #: /0,7624674/
MONITORING DATE: 8-4	1-22	TIME	0525

Calibration Procedure:

1. Allow instrument to zero itself while introducing air

2. Introduce calibration gas into the probe Stabilized reading = 25 ppm

3 Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Backgr Reading: (Highest in 30 sec		Downwind Background Reading: (Highest in 30 seconds)		Background Valu (Upwind + Down 2	
2.4	ppm	2.8	ppm	2.6	ppm

Background Value = 2 · 6 ppm

INSTRUMENT RESPONSE TIME RECORD

		Calibration Gas Reading		zed	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas	
#1	24	ppm	21.6	ppm	4	
#2	24	ppm	21.6	ppm	4	
#3	20	ppm	22.5	ppm	4	
	4 #DIV/0!					
					Must be less than 30 seconds	

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zer	o Air (A)	Meter Reading Calibration Gas		Calculate Precision	[STD - (B)]
#1	0-67	ppm	24	ppm	1	
#2	0.05	ppm	24	ppm	1	
#3	0-05	ppm	25	ppm	0	
Calculate Precisio	n [STD-B1] + [ST	D-B2] + [S	STD-B3] X <u>1</u> X 25	<u>100</u> 1	2 - 6 Must be less tha	#DIV/0!

Performed By _	NICK Banks	Date/Time: 8-	-4-22	-0525



LANDFILL NAME /CINA	34	INS	TRUMENT MA	AKE FI	Yerno
MODEL LUA 1000	EQUIPMENT #:				1102746775
MONITORING DATE: 8	-4-22		TIME	0625	

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
2, 4 ppm	2 (8 ppm	2.6 ppm

Background Value = 2, 6 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Calibration Gas	Using	90% of the Stabili Reading	zed	Time to Reach 90 Stabilized Readin switching from Z Calibration Gas	ng after
#1	24	ppm	21.6	ppm	5	
#2	25	ppm	225	ppm	.5	
#3	25	ppm	22.5	ppm	~	
Calculate Response Time (1+2+3) 3					5	#DIV/0!
					Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero	o Air (A)	Meter Reading Calibration Gas		Calculate Precision [STD – (B)]
#1	0.14	ppm	24	ppm	1
#2	0-11	ppm	21	ppm	0
#3	0-09	ppm	25	ppm	0
Calculate Precision	on [STD-B1] + [ST	D-B2] + [\$	STD-B3] X <u>1</u> X 25	100 1	#DIV/0!

Performed By:	700	4	RAZD
	41		

Date/Time 8-4-22 - 0525



LANDFILL NAME: /LINDY		INSTRUMENT	MAKE HHERVO
MODEL: LUALOU.	EQUIPMENT #	16	SERIAL #: 1102746776
MONITORING DATE: 8-4-	22	TIME	0525

Calibration Procedure:

1 Allow instrument to zero itself while introducing air

2. Introduce calibration gas into the probe Stabilized reading = 25 ppm

3 Adjust meter settings to read 25 ppm.

Background Determination Procedure

Reading:	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
2.4 ppm	2, 8 ppm	Z-6 ppm

Background Value = 2.6 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas		90% of the Stabilized Reading		Time to Reach 90 Stabilized Readir switching from Z Calibration Gas	ng after
#1	23	ppm	20-7	ppm	フ	
#2	24	ppm	21.6	ppm	7	
#3	25	ppm	225	ppm	7	
	7	#DIV/0!				
					Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zer	o Air (A)	Meter Reading Calibration Ga		Calculate Precision	[STD – (B)]
#1	6.11	ppm	23	ppm	2	
#2	0.07	ppm	24	ppm	1	
#3	0-05	ppm	25	ppm	8	
Calculate Precision	on [STD-B1] + [ST	D-B2] + [5 3	STD-B3] X <u>1</u> X 25	100 1	Y~>>	#DIV/0!

Performed By: Annoldo mentinos Date/Time: 8-4-22 0525

Intermountain Specialty Gases

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



"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

Composition Analytical Accuracy (+/-) Certification

Oxygen

20.9 %

2%

Nitrogen

Balance UHP

Lot#

20-7421

Mfg. Date:

5/20/2020

Expiration Date:

Transfill Date:

see cylinder

Parent Cylinder ID NY02268

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:

5/20/2020

masupply Service INC.
Accuracy

concentration (Mole%)

20.9% Oxygen Bal. Nitrogen

15 3.6ffs @ 70°F and 1,000 PSIG

Lot#: 20-7421

P/N:01-100

FREE IN STREET

103 L

Maiser Avenue, Irvine, CA 92614 137-0353 or (800) 201-8150 Fax (949) 757-0363

103-01-100



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687 800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition

Certification

Analytical Accuracy

Methane

25 ppm

± 5%

Air

Balance

Lot#

17-6074

Mfg. Date:

10/16/2017

Parent Cylinder ID

17161

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

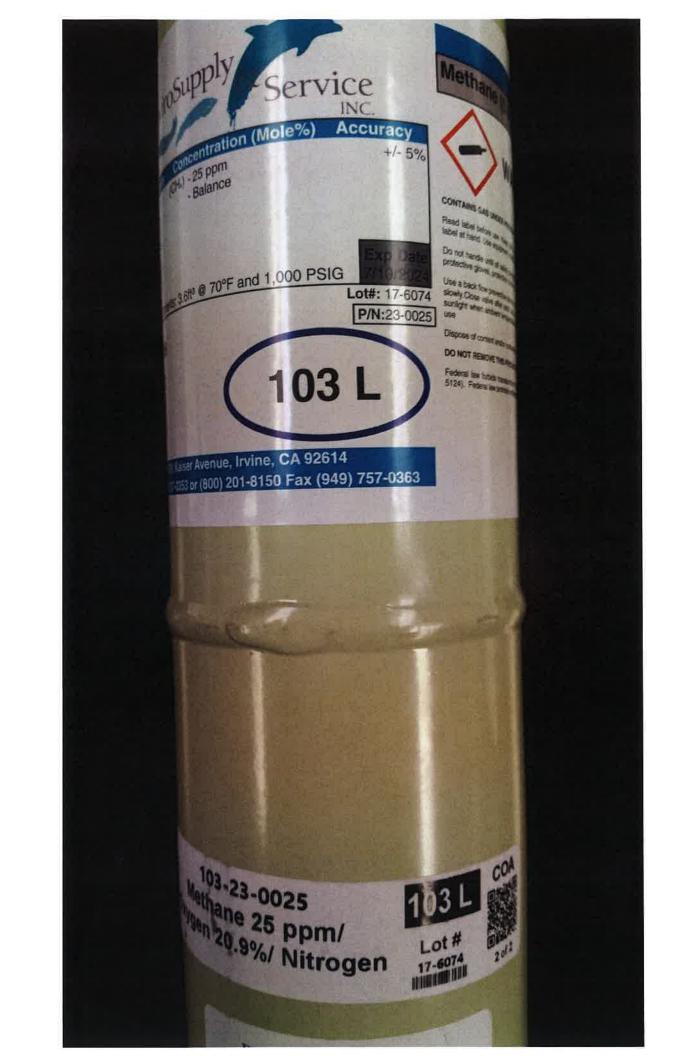
Method of Analysis:

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





INTERMOUNTAIN SPECIALTY GASES

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CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

 $\pm 5\%$

Lot#

17-6074

Mfg. Date:

10/16/2017

Parent Cylinder ID

17161

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

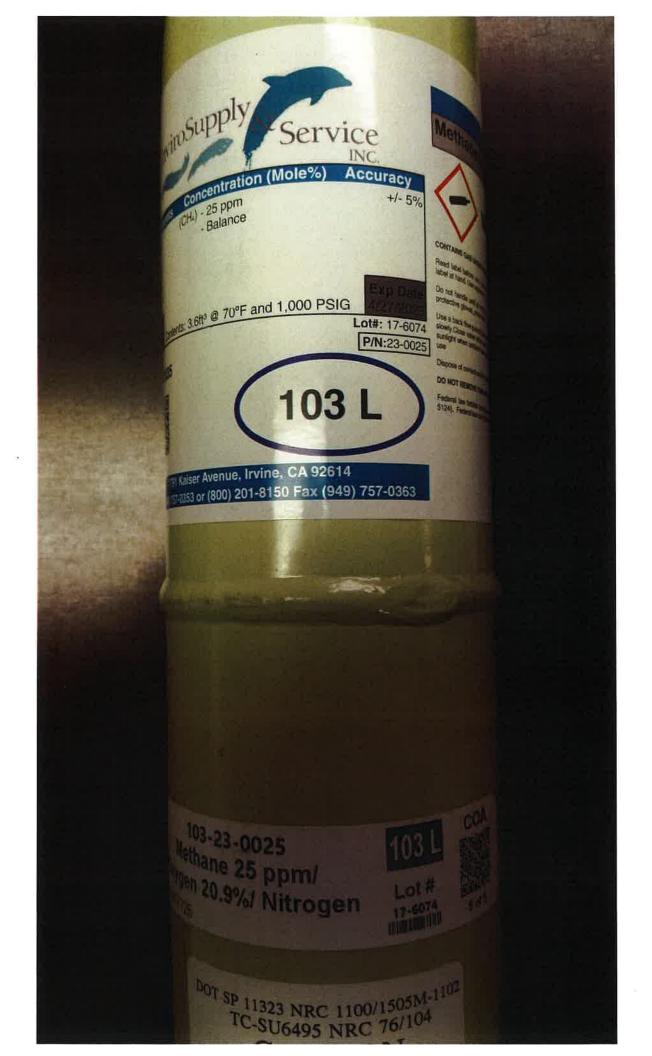
Method of Analysis:

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

> Analysis By: Tony Janquart Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017



Intermountain Specialty Gases

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"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

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

Lot# 20-7497

Mfg. Date: 7/10/2020

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID 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:

Title:

Tony Janquart Quality Assurance Manager

Certificate Date: 7/10/2020

Methane (0.0 Service atration (Mole%) Accuracy +/- 2% CONTAINS GAS UNDER PRESSA Fined label before Label at hand, Use Do not handle until all safety pro-protective gloves, protective on #0 70°F and 1,000 PSIG Use it back flowprises allowly. Close valve surlight when antiers Lot#: 20-7497 P/N:23-0500 Dispose of content ander as DO NOT REMOVE THIS PE Foderal law lorbida historia 5124), Federal law potes 103 L Menue, Irvine, CA 92614 201-8150 Fax (949) 757-0363 103 L Lot # 20-2497 1500 ppm/ 13%/ Nitrogen



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687 800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition

Certification

Analytical Accuracy

Methane

500 ppm

 $\pm 2\%$

Air

Balance

Lot #

19-6955

Mfg. Date:

7/24/2019

Parent Cylinder ID

001763

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By: Tony Janquart Quality Assurance Manager

800-552-5003

Certificate Date: 7/24/2019



Intermountain Specialty Gases

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



"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

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

Lot# 18-6641

Mfg. Date: 12/18/2018

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID 001763

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

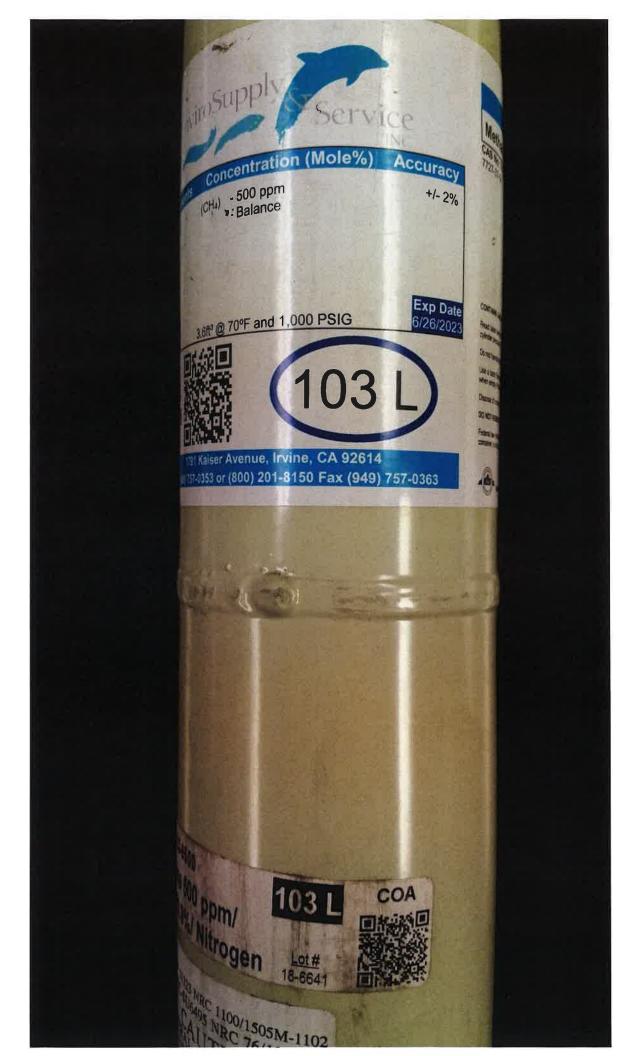
Method of Analysis:

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

Analysis By:

Tony Janquart Title: Quality Assurance Manager

Certificate Date: 12/18/2018





· Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

46400 Continental Drivve Chesterfield ,MI 48047

Cust Number 07152 Order Number 62891146 PO Number 04548169

Expires

12/31/2019

12/2022

+/- 2 %

Date on Manufacture

Lot Number Norlab Part#

9-326-80 J1971500PA

Cylinder Size

103 Liter

Component

Methane

Air

Analytical Accuracy

Number of Cyl 1

Customer Part# N/A

Reported

Concentration

500 ppm Balance

Requested

Concentration

500 ppm Balance

Storage:

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

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

NIST Traceable Numbers 20180519 and 20180224

Approved:

Lab Technician

12/31/2019



s00.962.7837 premiersafety.com

46400 Continents Chesterfield, Miles

mponents

Hane

Concentration (Mole

500 ppm Balance

0.135-81

1 +2%

J1871500PA

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

MFG Date:

Exp. Date:

11/11/2020

11/2023

CALIBRATION GAS



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# Cylinder Size J1002

Number of Cyl

103 Liter 1

Customer Part# N/A

Date on Manufacture

6/13/2022

Expires

06/2025

Analytical Accuracy

Certified

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

Component

Nitrogen

Reported

Concentration Zero Grade

20.9 % < 1.0 ppm

Balance

Requested

Concentration

Zero Grade

20.9 %

< 1.0 ppm

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

6/13/2022

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



800.062.7837 sempremiers a fety.com

33596 Sterling Hall

components

owgen TH.C. (as Methane) wrogen

Concentration (Mr

Zero Grade 20.9 % < 1.0 ppm Balance

2-154-85

Certified

J1002

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

MFG Date:

Exp. Date:

8/13/2022

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 69671309 PO Number 08361523

Lot Number

2-108-80 J1971500PA

Norlab Part# Cylinder Size

Number of Cyl

103 Liter

Date on Manufacture

6/10/2022

Expires

06/2025

Analytical Accuracy

+/- 2 %

Customer Part# N/A

Component Methane

Air

Reported

Concentration

500 ppm Balance

Requested

Concentration 500 ppm Balance

Storage:

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

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

NIST Traceable Numbers are available upon request.

Approved:

David Reed

Date Signed:

6/10/2022

Lab Technician



800.962.7837 800.962.7837 enr. premiers afety.com 33596 Sterling Posses Sterling Height w

Components

Methane

Concentration (Moles

500 ppm Balance

2-108-80

Accuracy: +/- 2 %

J1971500PA

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

MFG Date:

5/5/2022

Exp. Date:

05/2025

CALIBRATION GAS





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

EQUIPEO Park Roy

2100 Meridian Park Boulevard
2100 Meridian Park Boulevard
Concord, CA 94520
Concord, CA 94520
TO REORDER CALL 1 (888)-234-5678

AIR ULTRA ZERO THC<0.2 PPM

Analytical Accuracy +/- 5% 103L @ 70F & 1000 PSIG

Lot# 249483

P/N:10003070

EXP: 07/2024

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Time:	itill Name: KINOY. E: 10 AM PM ument Make: VA-1000 Mo	Date: 5/4/2	Z sm: 0928538411
			_ 5/1.10
Calibr	bration Procedure		
1.	. Allow instrument to internally zero	itself while introducir	g zero air.
2.	2. Introduce the calibration gas into th	e probc.	
	Stable Reading = 500	> ppm	
3.	3. Adjust meter to read 500 ppm.		

Background Determination Procedure

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

______ ppm (a) ______ ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2}$$

Background = _ppm

Performed By:

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: KCRDF Date: 8/29/22 Time: 7/6 AM PM
Instrument Make: Thermo Model: TUA GOOB S/N: 09285384
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):ppm (a)
2. Downwind Reading (highest in 30 seconds): ppm (b)
Calculate Background Value: (a) + (b) Background = \(\sum_{\text{ppm}} \)

CALIBRATION PRECISION TEST RECORD

Landfill Name: Krb+ Date: 7 6 22
Expiration Date (3 months): 10 /0 22
Time: QUS AMPM
Instrument Make: TVA 1008 Model: Thermal S/N: 0978538411
Measurement #1:
Meter Reading for Zero Air: Ô ppm (a)
Meter Reading for Zero Air:
Measurement #2:
Meter Reading for Zero Air: ppm (c) Meter Reading for Calibration Gas: ppm (d)
Meter Reading for Calibration Gas: 500 ppm (d)
Measurement #3:
Meter Reading for Zero Air: ppm (e) Meter Reading for Calibration Gas: ppm (f)
Meter Reading for Calibration Gas:ppm (f)
Calculate Precision:
$\frac{\{(500) - (b) + (500) - (d) + (500) - (f)\}}{3} \times \frac{1}{500} \times 100$
% (must be < than 10%)
Performed By:

RESPONSE TIME TEST RECORD

The state of the s

- 1/6/22
Date: 1/4/100
Expiration Date (3 months): $0/6/22$
Time: QYS AMPM
Instrument Make: TVA 1000 B Model: THE MAL S/N: 092653411
Measurement #1:
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: seconds (a)
Measurement #2:
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: ypm ppm ppm seconds (b)
Measurement #3:
Stabilized Reading Using Calibration Gas: 50\ ppm 90% of the Stabilized Reading: customer ppm Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: seconds (c)
Calculate Response Time:
$\frac{(a) + (b) + (c)}{3} = \frac{\text{seconds (must be less than 30 seconds)}}{3}$
Performed By:

APPENDIX G COMPONENT LEAK CHECK REPORTS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA THIRD QUARTER 2022 LFG COMPONENT LEAK MONITORING

INSTRUMENT	FID	
MAKE:	Photo Scientific	DATES OF SAMPLING: August 3, 2022
MODEL:	TVA 1000	FIELD TECHNICIANS: Leigh Wade
S/N·	1036346773	

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE- MONITORING	RE-MONITORED CONCENTRATION (ppmv)					
NO EXCEEDANCES WERE DETECTED DURING THE THIRD QUARTER 2022 MONITORING EVENT												
(I 4I 4I 4						 	_					

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

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

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

ND = Not Detected

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA FOURTH QUARTER 2022 LFG COMPONENT LEAK MONITORING

NSTRUMENT	FID	
MAKE:	Photo Scientific	DATES OF SAMPLING: October 26, 2022
MODEL:	TVA 1000	FIELD TECHNICIANS: Leigh Wade
S/N:	1036346773	

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE- MONITORING	RE-MONITORED CONCENTRATION (ppmv)					
NO EXCEEDANCES WERE DETECTED DURING THE FOURTH QUARTER 2022 MONITORING EVENT												

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

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

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

ND = Not Detected

APPENDIX H MONTHLY SOLID WASTE PLACEMENT TOTALS

Solid Waste Placement Totals

From July 1, 2022 through December 31, 2022

July	Disposed	August	Disposed	September	Disposed	October	Disposed	November	Disposed	December	Disposed
Total in Tons	19,395	Total in Tons	20,090	Total in Tons	22,163	Total in Tons	24,243	Total in Tons	19,693	Total in Tons	20,092
		-		-	-			-			

Total Disposed July 1, 2022 through December 31, 2022

KCRDF Facility A1812

125,675

APPENDIX I WELLFIELD MONITORING LOGS

Wellfield Monitoring Report - July 1, 5, and 6, 2022

		CH₄	CO2	O ₂	Balance	Initial	Adjusted	Initial	Adjusted
Device Name	Date Time	% by	% by	% by	% by	Temperature	Temperature	Pressure	Pressure
		Volume	Volume	Volume	Volume	(degrees F)	(degrees F)	(in. w.c.)	(in. w.c.)
KCLC0108	7/1/2022 7:14	44.9	37.7	0.0	17.4	97.2	99.2	-24.4	-38.7
KCLC0109	7/1/2022 7:06	56.0	41.3	0.0	2.7	102.3	102.5	-40.8	-41.7
KCLC0110	7/1/2022 7:03	58.0	41.9	0.1	0.0	113.3	113.4	-41.1	-41.0
KCLC0111	7/1/2022 7:28	57.0	42.9	0.1	0.0	91.0	91.2	-39.4	-1.5
KCLC0112	7/1/2022 7:25	57.0	40.9	0.0	2.1	112.2	112.1	-39.4	-39.4
KCLC0139	7/5/2022 8:19	55.1	44.9	0.0	0.0	124.0	124.1	-21.1	-21.1
KCLC0140	7/5/2022 8:28	29.4	31.8	1.8	37.0	126.2	123.2	-22.4	-3.5
KCLC0141	7/5/2022 7:58	27.8	30.1	0.0	42.1	100.3	100.0	-10.1	-2.5
KCLC0142 KCLC0143	7/5/2022 7:51 7/5/2022 9:18	27.1 16.1	29.0 25.0	0.0	43.9 58.9	82.2 108.8	100.0 108.2	-0.2 -2.4	-0.3 -0.9
KCLC0145 KCLC0145	7/1/2022 9.16			0.0	9.8	89.6	89.7		-28.0
KCLC0145 KCLC0147	7/1/2022 11:12	49.8 50.7	38.6 38.6	1.7	9.0	76.0	76.0	-28.1 -37.9	-38.0
KCLC0147 KCLC0149	7/1/2022 11:07	56.0	42.8	0.1	1.1	99.5	102.2	-0.6	-6.8
KCLC0149 KCLC0151	7/1/2022 11:13	54.4	42.4	0.1	3.1	115.1	115.1	-9.8	-9.8
KCLC0151 KCLC0152	7/1/2022 11:04	41.0	36.9	0.1	21.7	112.4	111.9	-9.8	-17.6
KCLC0152 KCLC0153	7/1/2022 11:00	47.3	41.2	0.4	11.5	97.3	97.2	-0.7	-0.1
KCLC0154	7/1/2022 11:15	57.9	41.6	0.0	0.5	94.2	97.9	-0.8	-2.5
KCLC0155	7/1/2022 11:32	55.1	43.3	0.0	1.6	104.2	105.8	-1.0	-5.5
KCLC0156	7/1/2022 11:39	47.0	38.0	1.6	13.4	95.8	94.9	-32.0	-1.8
KCLC0157	7/1/2022 11:57	44.3	33.7	3.7	18.3	82.6	82.4	-16.8	-2.3
KCLC0158	7/5/2022 9:10	40.1	38.0	0.0	21.9	101.0	99.2	-0.3	-0.3
KCLC0159	7/1/2022 8:44	55.3	40.5	0.4	3.8	109.8	115.2	0.0	-5.5
KCLC0160	7/1/2022 8:26	47.8	36.9	3.0	12.3	110.2	110.2	-41.6	-42.2
KCLC0161	7/1/2022 9:48	42.2	36.8	1.0	20.0	113.9	112.3	-24.7	-16.7
KCYN0014	7/1/2022 7:17	40.6	31.6	0.0	27.8	103.1	102.4	-9.6	-7.3
KCYN0027	7/6/2022 9:29	47.4	39.3	0.0	13.3	119.1	118.8	-37.8	-38.1
KCYN0048	7/1/2022 8:04	30.0	30.7	1.1	38.2	128.3	130.3	-3.9	-3.9
KCYN0051	7/5/2022 9:00	40.1	40.6	0.0	19.3	103.8	102.5	-4.7	-0.2
KCYN0054	7/5/2022 8:12	35.9	32.3	3.1	28.7	84.4	84.4	-33.5	-28.5
KCYN0056	7/5/2022 8:50	54.9	43.8	0.0	1.3	125.9	126.0	-25.2	-25.1
KCYN0057	7/5/2022 8:43	50.4	41.4	0.0	8.2	130.8	130.8	-17.1	-17.6
KCYN0058	7/5/2022 8:38	55.9	43.2	0.0	0.9	117.6	118.0	-0.5	-0.5
KCYN0062	7/6/2022 7:50	52.7	42.0	0.0	5.3	129.7	130.5	-3.3	-10.6
KCYN0063	7/6/2022 7:55	57.4	42.6	0.0	0.0	113.2	117.8	-0.3	-1.5
KCYN0065	7/5/2022 8:02	53.6	41.8	0.0	4.6	108.7	108.7	-1.6	-1.5
KCYN0066	7/1/2022 7:56	54.9	38.4	1.0	5.7	126.1	126.6	-4.4	-5.2
KCYN0070	7/6/2022 8:08	57.0	40.4	0.0	2.6	108.9	111.6	-2.5	-5.9
KCYN0071	7/6/2022 9:17	52.1	40.7	0.0	7.2	129.7	129.7	-11.0	-10.9
KCYN0072	7/6/2022 7:46	58.4	41.6	0.0	0.0	105.5	111.5	-0.4	-3.1
KCYN0074	7/6/2022 9:37	56.6	43.4	0.0	0.0	130.5	130.9	-35.9	-38.8
KCYN0075	7/5/2022 8:34	56.0	43.7	0.0	0.3	130.7	130.4	-27.2	-26.9
KCYN0076	7/1/2022 9:16	49.4	35.9	2.3	12.4	125.0	125.8	-20.3	-16.2
KCYN0078	7/5/2022 7:24	55.5	41.8	0.0	2.7	128.5	127.5	-26.0	-26.6
KCYN0082	7/5/2022 9:14	57.9	42.1	0.0	0.0	113.5	114.4	-0.3	-0.3
KCYN0084	7/5/2022 9:23	51.8	39.8	0.0	8.4	112.3	120.2	-0.1	-0.6
KCYN0086	7/1/2022 12:03	48.3	38.4	1.9	11.4	128.5	123.2	-28.4	-16.3
KCYN0087	7/5/2022 7:38	41.1	38.8	0.0	20.1	130.0	130.3	-21.9	-18.8
KCYN0088	7/6/2022 9:12	51.1	38.0	0.0	10.9	109.8	109.7	-27.7	-28.5
KCYN0089	7/1/2022 9:02	50.3	39.0	1.2	9.5	128.9	126.8	-19.0	-18.4
KCYN0090	7/6/2022 8:58	43.0	35.8	0.0	21.2	106.9	105.7	-35.2	-33.2
KCYN0091	7/6/2022 8:32	57.5	42.5	0.0	0.0	128.7	128.5	-3.5	-7.2
KCYN0092	7/6/2022 9:34	56.5	42.5	0.0	1.0	128.3	128.3	-29.4	-28.5
KCYN0093	7/6/2022 9:41	56.3	43.7	0.0	0.0	124.6	129.7	-0.1	-3.4
KCYN0094	7/6/2022 8:48	57.0	40.4	0.0	2.6	125.4	125.3	-34.5	-35.1
KCYN0095	7/6/2022 8:39	57.1	42.9	0.0	0.0	124.9	125.0	-35.7	-29.4
KCYN0097	7/6/2022 8:12	58.4	41.6	0.0	0.0	118.0	120.2	-4.0	-8.5
KCYN0098	7/6/2022 8:43	57.5	42.5	0.0	0.0	124.5	130.5	-1.1	-2.8
KCYN0099	7/6/2022 8:04	47.5	39.9	0.0	12.6	129.2	128.9	-6.0	-2.6
KCYN0101	7/6/2022 9:25	42.1	33.9	0.0	24.0	97.6	97.7	-1.5	-1.5
KCYN0102	7/6/2022 9:04	35.3	33.2	0.0	31.5	102.7	102.5	-1.7	-1.6
KCYN0103	7/6/2022 9:21	36.3	34.4	0.0	29.3	121.1	115.1	-15.0	-10.1
KCYN0105	7/1/2022 7:35	57.6	42.4	0.0	0.0	81.6	81.9	-41.8	-41.8
KCYN0118	7/1/2022 10:13	44.5	33.9	2.5	19.1	121.3	121.4	-34.3	-36.3
KCYN0119	7/1/2022 9:23	54.4	41.8	0.5	3.3	129.9	129.0	-6.2	-6.1
KCYN0121	7/1/2022 8:18	49.1	38.0	2.5	10.4	116.6	116.4	-40.1	-40.2

Wellfield Monitoring Report - July 1, 5, and 6, 2022

		ı	ı		1	1			
		CH₄	CO ₂	O ₂	Balance	Initial	Adjusted	Initial	Adjusted
Device Name	Date Time	% by	% by	% by	% by	Temperature	Temperature	Pressure	Pressure
		Volume	Volume	Volume	Volume	(degrees F)	(degrees F)	(in. w.c.)	(in. w.c.)
KCYN0122	7/1/2022 9:39	50.5	38.7	2.1	8.7	115.3	114.6	-35.4	-36.0
KCYN0123	7/5/2022 8:47	48.7	41.4	0.7	9.2	130.8	130.5	-6.6	-6.8
KCYN0124	7/5/2022 9:06	37.8	35.3	0.1	26.8	111.8	104.2	-6.4	-0.4
KCYN0125	7/5/2022 8:08	55.9	44.1	0.0	0.0	130.8	130.7	-14.2	-14.3
KCYN0126	7/5/2022 8:16	54.1	43.1	0.0	2.8	126.1	126.0	-9.3	-10.0
KCYN0127	7/5/2022 8:54	52.6	41.6	0.0	5.8	114.1	114.3	-1.1	-1.1
KCYN0128	7/1/2022 11:52	45.1	38.0	1.5	15.4	130.8	119.4	-25.9	-11.0
KCYN0129	7/1/2022 10:57	53.4	40.3	0.6	5.7	119.4	119.7	-35.0	-35.4
KCYN0130	7/1/2022 7:45	46.0	33.3	1.5	19.2	115.0	113.3	-12.0	-6.5
KCYN0131	7/1/2022 7:38	57.4	42.4	0.0	0.2	115.5	115.5	-40.5	-40.4
KCYN0133	7/5/2022 7:20	54.0	40.2	0.1	5.7	126.1	126.2	-27.1	-26.4
KCYN0134	7/5/2022 7:27	54.4	41.7	0.0	3.9	112.3	112.3	-25.9	-25.8
KCYN0135	7/5/2022 7:31	49.7	42.9	0.0	7.4	130.7	129.9	-23.8	-14.5
KCYNLR04	7/5/2022 7:43	57.2	40.5	0.0	2.3	101.1	101.1	-9.5	-9.9
KCYNLR08	7/6/2022 7:40	39.7	31.5	3.9	24.9	67.1	64.7	-30.2	-43.9
KCYNLR11	7/1/2022 7:10	59.2	40.7	0.0	0.1	65.6	65.6	-0.3	-0.3

^{*}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 July 31, 2022, there are 78 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

^{%=} percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

Wellfield Monitoring Report - August 1, 2, 3,29, and 31, 2022

Device Name	Date Time	CH₄ % by Volume	CO ₂ % by Volume	O ₂ % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	8/1/2022 8:27	43.7	37.6	0.0	18.7	102.1	94.90	-34.47	-16.13
KCLC0109	8/1/2022 8:19	56.0	42.6	0.4	1.0	99.1	99.80	-35.34	-35.98
KCLC0110	8/1/2022 8:13	57.0	43.0	0.0	0.0	114.2	114.30	-35.00	-35.03
KCLC0111	8/1/2022 7:08	57.1	42.7	0.2	0.0	89.1	89.20	-35.53	-35.25
KCLC0112	8/1/2022 7:04	56.8	43.2	0.0	0.0	112.4	112.40	-34.47	-34.55
KCLC0139	8/3/2022 7:59	54.2	45.8	0.0	0.0	122.4	122.70	-17.37	-16.29
KCLC0140	8/3/2022 7:50	53.0	43.6	0.0	3.4	112.1	120.60	-2.16	-17.37
KCLC0141	8/3/2022 7:09	51.5	36.8	0.0	11.7	95.9	98.40	-1.58	-9.87
KCLC0142	8/3/2022 7:01	38.8	31.4	0.0	29.8	96.2	96.40	-0.13	-0.11
KCLC0143	8/3/2022 9:37	58.0	39.5	0.0	2.5	103.9	106.40	-0.15	-1.80
KCLC0145	8/1/2022 10:33	56.8	43.2	0.0	0.0	86.5	87.60	-18.80	-26.89
KCLC0147	8/1/2022 10:27	56.8	42.3	0.1	8.0	73.4	73.50	-26.22	-25.72
KCLC0149	8/1/2022 10:36	52.1	42.1	0.0	5.8	106.0	105.90	-3.73	-7.22
KCLC0151	8/1/2022 10:22	56.1	43.9	0.0	0.0	114.9	115.10	-7.08	-7.87
KCLC0152	8/1/2022 10:17	53.2	42.6	0.0	4.2	110.8	111.90	-6.89	-9.61
KCLC0153	8/1/2022 10:44	54.5	45.0	0.0	0.5	94.1	97.40	-0.52	-2.87
KCLC0154	8/1/2022 10:49	36.7	36.6	0.0	26.7	101.7	100.70	-3.07	-1.38
KCLC0154	8/1/2022 10:49	36.7	36.6	0.0	26.7	101.7	100.70	-3.07	-1.38
KCLC0155	8/1/2022 10:57	45.2	40.2	0.0	14.6	107.4	104.60	-9.87	-2.77
KCLC0155	8/1/2022 10:57	45.2	40.2	0.0	14.6	107.4	104.60	-9.87	-2.77 15.21
KCLC0156 KCLC0157	8/1/2022 11:02 8/1/2022 9:51	57.0 45.9	42.7 39.9	0.0 0.5	0.3 13.7	95.3 76.6	97.60 77.00	-2.52 -4.56	-15.31 -3.47
KCLC0157 KCLC0158	8/3/2022 9:51	45.9 54.2	39.9 44.9	0.5	0.9	76.6 80.5	77.00 96.40	-4.56 -0.36	-3.4 <i>7</i> -1.94
KCLC0158 KCLC0159	8/3/2022 9:20	49.0	37.3	2.4	11.3	104.0	105.00	-4.03	-7.23
KCLC0159 KCLC0160	8/1/2022 8:06	56.1	43.9	0.0	0.0	104.0	109.50	-4.03	-7.23
KCLC0161	8/1/2022 9:39	54.4	43.5	0.0	2.1	112.8	115.00	-9.41	-25.56
KCYN0014	8/1/2022 8:44	62.6	35.2	0.0	2.2	101.2	101.90	-2.44	-3.70
KCYN0027	8/2/2022 9:35	49.8	38.3	0.0	11.9	121.0	120.80	-33.55	-33.14
KCYN0048	8/1/2022 7:54	33.4	33.4	0.0	33.2	129.1	127.80	-0.92	-0.91
KCYN0051	8/3/2022 9:04	50.8	44.2	0.0	5.0	103.0	103.90	-0.54	-2.13
KCYN0054	8/3/2022 7:17	48.3	39.0	0.0	12.7	75.2	76.10	-15.62	-25.01
KCYN0056	8/3/2022 8:24	55.8	44.2	0.0	0.0	125.8	125.80	-19.48	-19.89
KCYN0057	8/3/2022 8:43	52.2	41.1	0.0	6.7	130.0	130.50	-15.88	-16.01
KCYN0058	8/3/2022 9:30	53.0	40.3	1.0	5.7	122.8	122.80	-1.24	-1.25
KCYN0062	8/2/2022 7:26	32.1	32.0	0.1	35.8	130.2	128.90	-14.19	-6.17
KCYN0063	8/2/2022 7:19	42.3	35.3	0.1	22.3	120.6	118.50	-2.21	-0.79
KCYN0065	8/3/2022 7:42	55.9	44.1	0.0	0.0	94.3	109.10	-0.12	-11.58
KCYN0066	8/1/2022 7:41	55.4	39.8	0.0	4.8	127.6	127.90	-10.16	-12.83
KCYN0070	8/2/2022 8:29	48.4	38.0	0.0	13.6	114.4	114.40	-6.35	-6.38
KCYN0071	8/2/2022 8:04	52.6	41.0	0.0	6.4	130.5	128.10	-10.28	-11.62
KCYN0072	8/2/2022 7:35	26.8	29.5	0.0	43.7	112.8	105.10	-5.91	-2.86
KCYN0074	8/2/2022 9:59	56.7	43.3	0.0	0.0	130.4	130.30	-35.80	-34.50
KCYN0075	8/3/2022 8:17	55.8	44.2	0.0	0.0	130.0	130.20	-17.59	-17.07
KCYN0076	8/1/2022 9:14	56.5	43.5	0.0	0.0	130.6	130.50	-7.88	-11.83
KCYN0078	8/2/2022 10:31	53.8	41.2	0.1	4.9	128.7	130.50	-22.18	-21.76
KCYN0082	8/3/2022 9:22	56.1	41.9	0.0	2.0	115.6	115.80	-1.53	-2.22
KCYN0084	8/3/2022 9:42	36.4	34.8	0.0	28.8	122.8	120.40	-1.78	-0.51
KCYN0086	8/1/2022 10:01	56.3	43.0	0.0	0.7	127.0	130.00	-0.93	-9.73
KCYN0087	8/5/2022 9:10	43.3	36.7	0.1	19.9	130.8	130.70	-14.98	-9.40 28.01
KCYN0088	8/2/2022 9:29	54.3 50.7	35.8	0.0	9.9	110.8	110.90	-25.62 17.04	-28.01 17.03
KCYN0089	8/1/2022 9:04	50.7	40.1	0.0	9.2	130.1	130.40	-17.04	-17.03
KCYN0090 KCYN0091	8/2/2022 9:21 8/2/2022 8:47	51.0 53.5	38.3 41.5	0.0	10.7 5.0	107.3 129.8	108.90 130.10	-18.66 -14.56	-22.46 -15.40
KCYN0091 KCYN0092	8/2/2022 9:44	53.5	41.5	0.0	0.7	129.8	130.10	-14.56	-15.40
KCYN0092 KCYN0093	8/2/2022 9:44	43.7	37.3	0.0	19.0	127.3	127.70	-7.63	-4.62
KCYN0093 KCYN0094	8/2/2022 9:57	48.5	38.4	0.0	13.0	125.7	125.30	-32.39	-4.02
KC1N0094 KCYN0095	8/2/2022 9:12	57.5	42.5	0.0	0.0	125.6	125.70	-26.17	-28.63
KCYN0097	8/2/2022 8:40	50.5	39.2	0.0	10.3	121.8	121.80	-12.64	-13.22
KCYN0097 KCYN0098	8/2/2022 9:07	49.9	39.9	0.0	10.3	128.3	129.30	-6.45	-6.57
KCYN0099	8/2/2022 8:10	56.6	42.8	0.0	0.6	122.5	129.60	-0.32	-2.06
KCYN0101	8/2/2022 7:51	45.6	35.1	0.0	19.3	101.1	101.00	-1.37	-1.30
KCYN0102	8/2/2022 7:43	52.1	37.5	0.0	10.4	105.3	106.90	-0.98	-1.52
KCYN0103	8/2/2022 7:58	56.8	40.6	0.0	2.6	107.3	111.80	-1.11	-2.29
KCYN0105	8/1/2022 7:17	58.4	41.6	0.0	0.0	85.9	85.20	-36.12	-35.66
KCYN0118	8/1/2022 9:34	54.6	42.8	0.0	2.6	120.3	120.40	-29.33	-27.97
KCYN0119	8/1/2022 9:20	56.5	43.5	0.0	0.0	130.6	130.90	-4.61	-5.49
KCYN0121	8/1/2022 7:58	56.4	43.6	0.0	0.0	115.7	115.30	-32.28	-32.25
KCYN0121	8/1/2022 9:26	56.3	43.7	0.0	0.0	114.3	114.40	-28.38	-28.40
KCYN0123	8/3/2022 8:33	49.1	40.9	0.8	9.2	130.2	130.60	-6.44	-7.13
KCYN0124	8/3/2022 9:12	56.1	43.9	0.0	0.0	97.2	105.90	-0.06	-1.42
	8/3/2022 7:28	56.5	43.5	0.0	0.0	130.8	130.80	-11.77	-11.75

Wellfield Monitoring Report - August 1, 2, 3,29, and 31, 2022

Device Name	Date Time	CH₄ % by Volume	CO ₂ % by Volume	O₂ % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0126	8/3/2022 8:13	55.8	43.2	0.0	1.0	126.0	126.10	-9.07	-9.73
KCYN0127	8/3/2022 8:54	54.6	42.8	0.0	2.6	110.7	110.90	-2.06	-2.04
KCYN0128	8/1/2022 9:57	57.3	42.7	0.0	0.0	116.1	130.10	-2.20	-22.96
KCYN0129	8/1/2022 10:11	56.6	42.9	0.0	0.5	124.1	124.10	-27.16	-27.13
KCYN0130	8/1/2022 7:39	58.2	41.8	0.0	0.0	114.1	114.10	-1.46	-1.48
KCYN0131	8/1/2022 7:24	56.7	43.3	0.0	0.0	116.9	117.00	-37.28	-36.43
KCYN0133	8/2/2022 10:24	47.5	40.0	0.0	12.5	128.4	128.30	-22.39	-21.41
KCYN0134	8/2/2022 10:45	49.4	39.3	0.0	11.3	113.7	113.60	-21.71	-21.10
KCYN0135	8/2/2022 10:48	55.3	44.1	0.0	0.6	129.6	130.20	-4.46	-8.14
KCYNLR04	8/2/2022 10:56	55.4	38.9	0.0	5.7	101.2	101.10	-8.98	-10.31
KCYNLR08	8/29/2022 11:53	0.3	0.2	19.6	79.9	78.5	78.20	-34.27	-34.25
KCYNLR08	8/29/2022 11:55	0.1	0.1	19.5	80.3	78.4	78.20	-34.02	-34.03
KCYNLR08	8/31/2022 13:59	0.2	0.5	19.8	79.5	94.0	94.70	-33.35	-33.44
KCYNLR11	8/1/2022 8:36	59.1	40.9	0.0	0.0	70.0	70.10	-0.26	-0.22

^{*}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 August 31, 2022, there are 78 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

%= percent

in. w.c.= inches in water column degrees F= degrees Fahrenheit HOV = Higher Operating Value

Wellfield Monitoring Report - September 2, 7, 8, and 9, 2022

Device Name	Date Time	CH₄ % by	CO₂ % by	O₂ % by	Balance % by	Initial Temperature	Adjusted Temperature	Initial Pressure	Adjusted Pressure
Device Name	Date Time	% by Volume	% by Volume	% by Volume	7₀ by Volume	(degrees F)	(degrees F)	(in. w.c.)	(in. w.c.)
KCLC0108	9/2/2022 9:06	57.5	42.1	0.0	0.4	69.3	83.0	-4.4	-24.8
KCLC0109	9/2/2022 8:41	57.5	42.5	0.0	0.0	101.4	101.7	-30.0	-30.0
KCLC0110	9/2/2022 8:30	57.4	42.5	0.0	0.1	113.4	113.5	-30.4	-29.7
KCLC0111	9/2/2022 9:23	57.2	42.8	0.0	0.0	94.3	94.4	-26.0	-26.0
KCLC0112	9/2/2022 9:18	57.2	42.0	0.0	0.8	113.7	113.7	-25.4	-25.3
KCLC0139	9/9/2022 7:44	53.2	43.8	0.0	3.0	124.5	124.6	-13.6	-13.6
KCLC0140 KCLC0141	9/9/2022 7:40 9/9/2022 7:20	35.1 31.5	34.8 31.4	0.6	29.5 37.1	126.4 99.8	122.9 99.0	-12.9 -9.7	-0.7 -1.5
KCLC0141	9/9/2022 7:16	20.3	24.8	0.0	54.9	102.5	102.5	-0.6	-0.6
KCLC0143	9/9/2022 8:31	23.3	27.4	0.2	49.1	109.3	109.5	-1.3	-0.8
KCLC0145	9/8/2022 10:19	57.2	41.6	0.2	1.0	100.1	100.2	-21.8	-21.7
KCLC0147	9/8/2022 10:15	41.0	32.7	3.6	22.7	92.3	94.1	-20.5	-4.4
KCLC0149	9/8/2022 10:23	47.9	40.1	0.0	12.0	111.5	111.7	-7.0	-4.5
KCLC0151	9/8/2022 10:08	55.4	43.1	0.0	1.5	115.8	115.8	-7.5	-8.3
KCLC0152	9/8/2022 10:03	47.6	40.4	0.0	12.0	113.8	113.9	-12.6	-12.6
KCLC0153 KCLC0154	9/8/2022 10:26	43.3 50.1	40.3 41.0	0.0	16.4 8.9	101.5	101.5 102.3	-3.5 -1.2	-1.9 -2.3
KCLC0154 KCLC0155	9/8/2022 10:30 9/8/2022 10:33	54.7	43.0	0.0	2.3	101.6 108.1	102.3	-1.2	-2.3
KCLC0156	9/8/2022 10:37	55.4	42.7	0.0	1.9	98.8	98.7	-14.2	-19.5
KCLC0157	9/9/2022 8:39	48.8	34.9	2.0	14.3	73.7	73.6	-21.0	-22.0
KCLC0158	9/9/2022 8:22	34.8	35.0	0.5	29.7	106.0	106.0	-3.1	-1.9
KCLC0159	9/2/2022 10:04	47.1	37.0	2.4	13.5	105.5	104.4	-4.3	-1.3
KCLC0160	9/2/2022 9:59	55.6	44.4	0.0	0.0	110.1	110.4	-24.4	-24.4
KCLC0161	9/2/2022 10:30	46.2	40.6	0.0	13.2	114.6	112.9	-19.0	-13.1
KCYN0014	9/2/2022 9:12	56.1	35.3	0.0	8.6	103.5	103.6	-6.6	-7.8
KCYN0027 KCYN0048	9/7/2022 9:29 9/2/2022 9:47	49.5 55.5	39.8 42.8	0.0	10.7 1.7	119.7 100.4	119.8 127.9	-28.1 -0.1	-29.8 -3.0
KCYN0048 KCYN0051	9/9/2022 8:14	45.4	41.0	0.0	13.6	104.3	104.1	-3.5	-1.3
KCYN0054	9/9/2022 7:25	35.0	28.7	3.8	32.5	91.8	90.5	-22.9	-17.7
KCYN0056	9/9/2022 8:12	52.0	41.5	0.3	6.2	127.3	127.3	-15.8	-15.8
KCYN0057	9/9/2022 8:03	51.8	42.4	0.0	5.8	128.4	127.3	-13.0	-12.8
KCYN0058	9/9/2022 7:59	55.5	40.7	0.1	3.7	87.4	91.4	-0.6	-0.6
KCYN0062	9/7/2022 7:47	53.8	42.5	0.0	3.7	129.7	130.7	-2.6	-5.7
KCYN0063	9/7/2022 7:43	57.1	42.8	0.0	0.1	111.3	117.9	-0.1	-1.3
KCYN0065	9/9/2022 7:31	51.4	40.5	0.8	7.3	109.9	111.8	-0.4	-0.9
KCYN0066 KCYN0070	9/2/2022 9:43 9/7/2022 8:38	50.1 46.0	40.3 38.5	0.0	9.6 15.5	128.0 113.4	128.2 112.6	-15.6 -5.6	-21.6 -3.2
KCYN0070 KCYN0071	9/7/2022 8:18	49.7	40.9	0.0	9.4	129.1	129.1	-12.4	-12.4
KCYN0072	9/7/2022 7:50	57.0	43.0	0.0	0.0	102.3	111.3	-0.2	-1.7
KCYN0074	9/7/2022 9:40	55.0	43.8	0.0	1.2	129.5	129.8	-28.6	-28.2
KCYN0075	9/9/2022 7:55	56.4	41.8	0.1	1.7	130.9	124.4	-11.6	-11.5
KCYN0076	9/2/2022 10:18	55.8	44.2	0.0	0.0	130.7	130.3	-12.8	-16.0
KCYN0078	9/7/2022 10:34	53.9	42.3	0.0	3.8	130.5	130.6	-16.0	-16.0
KCYN0082	9/9/2022 8:26	43.1	36.2	0.1	20.6	116.7	109.5	-3.7	-0.6
KCYN0084 KCYN0086	9/9/2022 8:35	56.2	41.9	0.1	1.8	113.7	118.6	-0.5	-0.6
KCYN0086 KCYN0087	9/9/2022 8:45 9/9/2022 7:06	53.9 54.1	42.2 41.3	0.4	3.5 4.6	129.1 128.4	129.9 130.8	-17.7 -5.9	-17.7 -7.1
KCYN0087 KCYN0088	9/7/2022 8:06	51.6	38.8	0.0	9.6	110.1	110.0	-24.3	-7.1
KCYN0089	9/2/2022 10:12	55.3	42.5	0.0	2.2	129.2	129.0	-14.3	-15.5
KCYN0090	9/7/2022 8:14	46.0	38.0	0.0	16.0	105.7	104.7	-24.5	-22.5
KCYN0091	9/7/2022 8:48	52.0	42.8	0.0	5.2	130.6	129.8	-15.1	-16.3
KCYN0092	9/7/2022 9:35	55.2	43.2	0.0	1.6	127.1	127.4	-19.5	-19.5
KCYN0093	9/7/2022 9:45	54.8	44.6	0.0	0.6	114.9	121.2	0.0	-0.2
KCYN0094	9/7/2022 8:59	50.2	41.0	0.0	8.8	125.5	126.3	-26.5	-27.5
KCYN0095 KCYN0097	9/7/2022 9:04	51.2 49.7	40.2 39.8	1.1 0.1	7.5 10.4	123.5 121.1	123.7 121.3	-23.9 -12.2	-25.0 -13.0
KCYN0097 KCYN0098	9/7/2022 8:43 9/7/2022 8:55	50.0	39.8 41.1	0.1	8.9	130.9	130.5	-12.2	-13.0 -7.1
KCYN0098 KCYN0099	9/7/2022 8:29	49.7	42.2	0.0	8.1	129.6	130.4	-5.0	-7.1
KCYN0101	9/7/2022 7:58	41.4	34.4	0.0	24.2	74.5	74.2	-1.1	-1.0
KCYN0102	9/7/2022 7:55	33.3	32.4	0.0	34.3	108.0	106.8	-1.8	-0.4
KCYN0103	9/7/2022 8:02	37.3	33.2	0.0	29.5	119.3	114.6	-6.4	-5.0
KCYN0105	9/2/2022 9:33	57.0	43.0	0.0	0.0	89.6	89.5	-26.7	-26.7
KCYN0118	9/7/2022 9:51	53.6	43.3	0.0	3.1	122.6	122.7	-22.6	-23.1
KCYN0119	9/2/2022 10:23	55.7	44.0	0.0	0.3	130.8	130.9	-5.0	-5.7
KCYN0121	9/2/2022 9:56	55.9	44.1	0.0	0.0	115.3	114.2	-22.1	-22.5
KCYN0122	9/2/2022 10:26	55.7	43.6	0.0	0.7	115.0	115.2	-20.4	-20.4
KCYN0124	9/9/2022 8:09	45.8 45.3	37.9	1.6 0.0	14.7 16.8	130.8	128.5	-6.5 -3.8	-3.0 -1.2
KCYN0124 KCYN0125	9/9/2022 8:18 9/9/2022 7:36	45.3 56.0	37.9 44.0	0.0	0.0	112.5 130.7	112.1 130.8	-3.8 -8.0	-1.2 -8.7
KCYN0125 KCYN0126	9/9/2022 7:50	53.0	43.0	0.0	4.0	127.0	127.0	-8.5	-9.0
KCYN0127	9/9/2022 8:06	53.1	42.2	0.0	4.7	110.5	110.6	-1.4	-1.4

Wellfield Monitoring Report - September 2, 7, 8, and 9, 2022

Device Name	Date Time	CH₄ % by Volume	CO ₂ % by Volume	O ₂ % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0128	9/9/2022 8:42	53.2	41.4	0.4	5.0	129.5	130.3	-22.2	-22.3
KCYN0129	9/8/2022 10:00	56.7	41.4	0.4	1.5	125.8	125.8	-20.5	-20.5
KCYN0130	9/2/2022 9:38	57.8	41.4	0.0	0.8	114.6	114.9	-3.7	-4.7
KCYN0131	9/2/2022 9:31	56.4	43.4	0.0	0.2	119.1	119.2	-27.2	-27.2
KCYN0133	9/7/2022 10:48	54.0	42.9	0.0	3.1	128.2	128.4	-15.7	-15.7
KCYN0134	9/7/2022 10:27	52.2	42.2	0.0	5.6	111.7	111.7	-14.4	-14.4
KCYN0135	9/7/2022 10:24	52.8	45.0	0.0	2.2	130.3	130.9	-8.8	-11.7
KCYNLR04	9/9/2022 7:11	58.8	41.2	0.0	0.0	101.1	101.1	-1.1	-2.2
KCYNLR08	9/7/2022 7:38	1.3	2.7	19.6	76.4	70.1	69.9	-34.6	-34.6
KCYNLR11	9/2/2022 9:03	58.4	41.6	0.0	0.0	70.7	71.7	-0.7	-2.7

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 September 30, 2022, there are 78 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

in. w.c.= inches in water column degrees F= degrees Fahrenheit HOV = Higher Operating Value

Wellfield Monitoring Report - October 3, 4, and 5, 2022

No. Volume Volu	Device Name	Date Time	CH₄	CO ₂	O ₂	Balance % by	Initial	Adjusted	Initial Pressure	Adjusted Pressure
KCLC0108	Device Name	Date Time	% by Volume	% by Volume	% by Volume	% by Volume	Temperature (degrees F)	Temperature (degrees F)		(in. w.c.
KECLO0199 10/3/2002 28/0	KCLC0108	10/3/2022 8:13								-20.49
KCLC0111							-			-38.18
KCLC0112	KCLC0110	10/3/2022 8:35	56.80	43.20	0.00	0.00	114.10	114.10	-39.02	-37.54
KCLC0199	KCLC0111	10/3/2022 8:42	55.90	42.60	0.30	1.20	92.30	92.40	-36.95	-36.61
KCLC0144 108/2022 91	KCLC0112	10/3/2022 8:39	56.30	43.70	0.00	0.00	112.10	112.00	-35.27	-36.28
KCLC0141 1095/2022 88 2		10/5/2022 10:00								-21.52
KCLC0142 1095/2022 848										-4.68
KICLC0143										-1.52
										-0.21
KCLC0147 10/3/2022 10:31 48.70 34.80 2.70 16.00 68.80 68.70 -28.98 KCLC0147 10/3/2022 10:33 56.80 42.30 0.00 1.10 90.40 91.60 -3.41 KCLC0151 10/3/2022 10:33 56.80 43.70 0.00 0.00 115.20 115.20 115.20 -15.30 KCLC0151 10/3/2022 10:33 51.80 41.80 0.00 0.00 18.20 115.20 115.20 -15.30 KCLC0153 10/3/2022 10:33 51.80 41.80 0.00 64.0 98.10 98.80 -1.29 KCLC0154 10/3/2022 10:33 51.80 41.80 0.00 64.0 98.10 0.98 80.0 -1.29 KCLC0155 10/3/2022 10:44 55.20 42.40 0.00 7.40 106.20 100.20 -5.08 KCLC0155 10/3/2022 10:44 55.20 37.50 32.20 0.00 7.40 106.20 100.20 -5.08 KCLC0157 10/5/2022 10:21 51.20 37.50 22.20 51.00 70.10 70.80 -28.33 KCLC0157 10/5/2022 10:21 51.20 37.50 22.20 51.00 70.10 70.80 -28.33 KCLC0159 10/5/2022 21:21 59.60 40.40 0.00 0.00 106.70 1112.50 -2.25 KCLC0150 10/3/2022 21:3 58.60 44.40 0.00 0.00 106.70 1112.50 -2.25 KCLC0150 10/3/2022 21:3 58.60 44.40 0.00 0.00 106.70 1112.50 -2.25 KCLC0150 10/3/2022 21:3 58.60 44.40 0.00 0.00 106.70 1112.50 -2.25 KCLC0150 10/3/2022 21:3 58.60 44.40 0.00 0.00 106.70 1112.50 -2.25 KCLC0150 10/5/2022 23:3 53.60 41.80 0.00 4.60 113.50 114.60 -44.66 KCYN0017 40/4/2022 93.60 43.80 30.40 61.00 25.70 102.70 102.30 -13.20 10.50 -13.50 117.70 -41.52 KCYN0014 10/5/2022 25:5 53.50 43.70 0.00 0.00 10.50 12.70 102.30 -41.52 KCYN0016 10/5/2022 25:5 47.50 37.20 0.00 4.60 113.50 117.70 -41.52 KCYN0016 10/5/2022 25:5 47.50 37.20 0.00 4.60 13.30 117.50 117.70 -41.52 41.60 41.6										-0.44
KCLC0194 10/3/2022 103.9 56.80 42.30 0.00 11.10 99.40 91.60 3.41 KCLC01951 10/3/2022 103.9 45.50 38.30 0.00 18.20 111.50 111.50 111.50 115.20 115.30 KCLC01952 10/3/2022 103.7 37.00 38.20 0.00 18.20 111.40 111.70 18.19.9 KCLC01954 10/3/2022 103.7 37.00 38.20 0.00 26.80 101.40 109.10 4.03 KCLC01954 10/3/2022 103.7 37.00 38.20 0.00 26.80 101.40 109.10 4.03 KCLC01956 10/3/2022 10.52 54.50 42.60 0.00 7.40 108.20 108.20 108.20 10.50 KCLC01956 10/3/2022 10.52 54.50 42.60 0.00 1.80 97.70 97.70 -28.73 KCLC01956 10/3/2022 10.21 51.80 37.50 2.20 8.10 70.10 70.80 97.70 -28.73 KCLC01956 10/3/2022 10.21 58.70 37.50 2.20 8.10 70.10 70.80 97.70 -28.73 KCLC01956 10/3/2022 92.11 58.60 40.40 0.00 0.00 106.70 112.50 42.25 KCLC01956 10/3/2022 92.11 58.60 40.40 0.00 0.00 106.70 112.50 42.25 KCLC01956 10/3/2022 943 53.60 41.80 0.00 4.80 113.50 114.80 40.70 40.60 40.70 40.60 40.7										-31.75 -30.57
INCLICOTES 1003/2022 1013 58.03 43.70 0.00 0.00 115.20 115.20 115.20 1.65.30 INCLICOTES 1003/2022 1013 51.80 41.80 0.00 6.40 98.10 98.80 -1.29 INCLICOTES 1003/2022 1013 51.80 41.80 0.00 6.40 98.10 98.80 -1.29 INCLICOTES 1003/2022 105.2 0.42.40 0.00 7.40 108.20 108.20 -5.08 INCLICOTES 1003/2022 105.2 0.42.40 0.00 7.40 108.20 108.20 -5.08 INCLICOTES 1003/2022 105.2 0.42.40 0.00 7.40 108.20 108.20 -5.08 INCLICOTES 1003/2022 105.2 0.42.40 0.00 7.40 108.20 108.20 -5.08 INCLICOTES 1003/2022 105.2 0.42.40 0.00 0.00 1.90 97.70 97.70 97.70 -29.73 INCLICOTES 1003/2022 105.2 0.42.40 0.00 0.00 0.10 0.0										-7.19
KICLODIS2										-16.45
KICLOSISS 10/3/2022 10.33 51.00 41.80 0.00 64.0 68.10 98.80 -1.29 KICLOSIS 10/3/2022 10.44 60.20 42.00 0.00 74.00 108.20 108.20 -5.08 KICLOSIS 10/3/2022 10.24 60.20 42.00 0.00 74.00 108.20 108.20 -5.08 KICLOSIS 10/3/2022 10.21 51.20 37.50 22.00 1.00 77.00 108.20 108.20 -5.08 KICLOSIS 10/3/2022 10.21 51.20 37.50 22.00 9.10 70.10 70.80 -28.38 KICLOSIS 10/3/2022 10.12 38.70 37.10 0.00 24.20 101.00 99.40 -1.52 40.00 40.0										-15.50
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KCLC0157 10/5/2022 10:12 33 7/50 2.20 9:10 70:10 70:80 2-83.8 KCLC0158 10/5/2022 10:12 38 7/0 37:10 0.00 24:20 10:10 99:40 1:52 KCLC0159 10/3/2022 9:15 59:80 40:40 0.00 0.00 106:70 112:50 -2.25 KCLC0160 10/3/2022 9:43 53:80 43:40 0.00 0.00 106:70 112:50 -2.25 KCLC01610 10/3/2022 9:43 53:80 43:40 0.00 0.00 10:670 10:670 -36:59 KCLC0161 10/3/2022 9:43 53:80 44:80 0.00 0.00 113:50 114:80 -14:86 KCYN0014 10/3/2022 9:99 43:80 30:40 0.10 25:70 10:270 10:230 -13:52 KCYN00404 10/3/2022 9:98 48:80 30:40 0.10 25:70 10:270 10:230 -13:52 KCYN00404 10/3/2022 9:98 48:80 30:40 0.10 25:70 10:270 10:230 -13:52 KCYN00404 10/3/2022 9:98 51:10 42:90 0.00 6:00 10:260 126:00 -3:70 KCYN0051 10/5/2022 9:28 51:10 42:90 0.00 6:00 10:260 10:30 1:91 KCYN0054 10/5/2022 9:32 55:80 41:20 0.00 6:50 126:70 8:80 -0:77 KCYN0057 10:5/2022 9:32 55:80 41:20 0.00 6:50 126:70 128:50 -22:31 KCYN0057 10:5/2022 9:50 52:30 41:20 0.00 6:50 127:90 128:50 -22:31 KCYN0058 10/3/2022 11:20 40:10 34:90 0.00 0.50 118:50 119:10 2:20 1-1:16 KCYN0066 10/3/2022 11:20 40:10 34:90 0.00 25:00 118:50 119:10 2:63 KCYN0066 10/3/2022 11:20 40:10 34:90 0.00 0.50 119:50 119:10 2:63 KCYN0066 10/3/2022 11:20 40:10 34:90 0.00 25:00 118:50 119:10 2:63 KCYN0066 10/3/2022 11:20 40:10 34:90 0.00 25:00 118:50 119:10 2:63 KCYN0066 10/3/2022 10:65 5:00 37:40 0.00 0.00 13:00 10:90 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 119:00 0.00 0.00 119:00 0.00										-30.10
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KCLC0169										-0.83
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ΚCYN0014 10/3/2022 9:09 43.80 30.40 0.10 257.0 102.70 102.30 -13.52 ΚCYN0027 10/4/2022 9:09 30.80 32.20 0.60 36.40 128.00 160.00 -3.70 ΚCYN0051 10/3/2022 9:09 30.80 32.20 0.60 36.40 128.00 160.00 -3.70 ΚCYN0051 10/3/2022 9:32 55.80 43.70 0.00 16.90 102.60 193.00 -0.77 ΚCYN0054 10/3/2022 9:32 55.80 43.70 0.00 1.60 126.70 83.80 -27.00 ΚCYN0057 10/3/2022 9:54 56.70 43.00 0.00 6.50 127.90 128.50 -22.31 ΚCYN0063 10/3/2022 11:07 40.10 28.60 0.10 31.20 10.10 12.20 -1.16 ΚΟΥΝ0065 10/3/2022 11:07 40.10 28.60 0.10 13.20 118.50 119.10 -2.263 ΚΟΥΝ0076 10/3/2022 11:07 40.10 34.90 0.00	KCLC0160	10/3/2022 9:16	56.60	43.40	0.00	0.00	108.70	108.70	-36.59	-36.97
KCYN0027 10/4/02/2 9:08	KCLC0161	10/3/2022 9:43	53.60	41.80	0.00	4.60	113.50	114.80	-14.66	-23.90
KCYN0051	KCYN0014	10/3/2022 8:09	43.80	30.40	0.10	25.70	102.70	102.30	-13.52	-10.34
KCYN0051	KCYN0027	10/4/2022 9:36	46.60	40.10	0.00	13.30	117.90	117.70	-41.62	-41.62
KCYN0056	KCYN0048	10/3/2022 9:09	30.80	32.20	0.60	36.40	128.00	126.00	-3.70	-2.83
KCYN0056 10/5/2022 9:32 55.80 43.70 0.00 0.50 126.70 83.80 -27.00 CCYN0057 10/5/2022 9:54 55.70 43.00 0.00 6.50 127.90 128.50 -22.31 CCYN0062 10/5/2022 9:54 55.70 43.00 0.00 0.30 101.90 102.20 -1.16 CCYN0062 10/5/2022 9:54 55.70 43.00 0.00 0.30 101.90 102.20 -1.16 CCYN0062 10/5/2022 9:06 56.90 41.80 0.00 25.00 118.50 119.10 -2.63 CCYN0065 10/5/2022 9:06 56.90 41.80 0.00 20.70 127.50 126.80 -31.23 CCYN0066 10/5/2022 9:06 56.90 41.80 0.00 20.70 127.50 126.80 -31.23 CCYN0066 10/5/2022 9:06 56.90 41.80 0.00 20.70 127.50 126.80 -31.23 CCYN0066 10/5/2022 9:06 56.90 37.40 0.00 10.70 109.30 111.00 -3.49 CCYN0071 10/4/2022 7:54 51.90 37.40 0.00 11.70 10.90 111.00 -3.49 CCYN0072 10/3/2022 11:25 30.00 29.40 0.00 40.60 113.00 112.10 -5.44 CCYN0074 10/4/2022 9:48 57.00 43.00 0.00 40.60 113.00 112.10 -5.44 CCYN0074 10/4/2022 9:48 57.00 43.90 0.00 0.00 128.40 129.50 -22.00 CCYN0076 10/5/2022 9:77 56.10 43.90 0.00 0.00 129.40 129.50 -22.00 CCYN0078 10/5/2022 9:75 56.10 43.90 0.00 0.00 129.40 129.50 -22.00 CCYN0078 10/5/2022 9:75 56.10 43.90 0.00 2.10 129.20 130.10 -29.85 CCYN0078 10/4/2022 10:06 54.80 43.10 0.00 2.10 129.20 130.10 -29.85 CCYN0078 10/5/2022 0:57 56.10 43.90 0.00 2.10 129.20 130.10 -29.85 CCYN0082 10/5/2022 10:05 54.80 43.10 0.00 2.10 129.20 130.10 -29.85 CCYN0088 10/5/2022 10:05 54.80 43.10 0.00 2.10 129.20 130.10 -29.85 CCYN0088 10/5/2022 10:05 54.90 41.40 0.40 3.30 129.80 130.20 -24.58 CCYN0088 10/5/2022 10:05 54.90 41.40 0.40 3.30 129.80 130.20 -24.58 CCYN0088 10/5/2022 10:05 54.90 41.40 0.40 3.30 129.80 130.20 -25.28 CCYN0088 10/4/2022 8:41 51.00 38.20 0.00 10.80 130.80 129.90 -34.7	KCYN0051	10/5/2022 9:28	51.10	42.90	0.00	6.00	102.60	103.00	-1.91	-2.66
ΚCYN0057 10/5/2022 9:50 52.30 41.20 0.00 6.50 127.90 128.50 -22.31 ΚCYN0068 10/5/2022 9:54 56.70 43.00 0.00 0.30 101.90 102.20 -1.16 ΚCYN0063 10/3/2022 11:20 40.10 28.60 0.11 31.20 130.70 128.60 -8.87 ΚCYN0065 10/3/2022 11:20 40.10 28.60 0.00 13.120 130.70 128.60 -8.87 ΚCYN0066 10/3/2022 9:02 41.70 37.60 0.00 1.30 106.40 110.70 -0.29 ΚCYN0070 10/4/2022 7:54 51.90 37.40 0.00 10.70 109.30 111.00 -3.49 ΚCYN0071 10/3/2022 11.25 30.00 29.40 0.00 40.60 113.00 112.10 -5.44 ΚCYN0072 10/3/2022 12.25 30.00 29.40 0.00 40.60 113.00 112.10 -5.44 ΚΟΥΝ0074 10/4/2022 9.57 56.10 43.00 0.0							-			-0.68
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KCYN0087 10/5/2022 8:43 40.50 36.50 0.00 23.00 130.60 127.20 -16.60 KCYN0088 10/4/2022 8:41 51.00 38.20 0.00 10.80 109.90 109.90 -34.77 KCYN0089 10/3/2022 9:25 50.30 38.90 0.00 12.80 99.00 129.90 -25.28 KCYN0090 10/4/2022 8:29 49.20 38.00 0.00 12.80 99.00 99.20 -21.17 KCYN0091 10/4/2022 9:41 56.00 41.00 0.00 3.00 126.60 126.70 -33.19 KCYN0092 10/4/2022 9:52 43.90 39.30 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 8:08 46.70 37.60 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 8:17 53.40 40.40 1.40 40.40 72.10 72.00 -6.61 KCYN0095 10/4/2022 8:17 53.40 40.40 1.40 </td <td>KCYN0084</td> <td>10/5/2022 9:25</td> <td>40.00</td> <td>35.40</td> <td>0.00</td> <td>24.60</td> <td>123.00</td> <td>120.80</td> <td>-1.87</td> <td>-0.94</td>	KCYN0084	10/5/2022 9:25	40.00	35.40	0.00	24.60	123.00	120.80	-1.87	-0.94
KCYN0088 10/4/2022 8:41 51.00 38.20 0.00 10.80 109.90 109.90 -34.77 KCYN0089 10/3/2022 9:25 50.30 38.90 0.00 10.80 130.30 129.90 -25.28 KCYN0090 10/4/2022 8:29 49.20 38.00 0.00 12.80 99.00 99.20 -21.17 KCYN0091 10/4/2022 7:40 46.30 39.30 0.00 14.40 129.30 129.50 -25.57 KCYN0092 10/4/2022 9:41 56.00 41.00 0.00 3.00 126.60 126.70 -33.19 KCYN0093 10/4/2022 9:41 56.00 41.00 0.00 3.00 126.60 126.70 -33.19 KCYN0094 10/4/2022 8:08 46.70 37.60 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 8:17 53.40 40.40 1.40 4.80 123.00 122.90 -37.45 KCYN0095 10/4/2022 8:17 53.40 40.40 1.40	KCYN0086	10/5/2022 10:29	54.90	41.40	0.40	3.30	129.80	130.20	-24.58	-25.37
KCYN0089 10/3/2022 9:25 50.30 38.90 0.00 10.80 130.30 129.90 -25.28 KCYN0090 10/4/2022 8:29 49.20 38.00 0.00 12.80 99.00 99.20 -21.17 KCYN0091 10/4/2022 9:41 56.00 41.00 0.00 14.40 129.30 129.50 -25.57 KCYN0092 10/4/2022 9:41 56.00 41.00 0.00 3.00 126.60 126.70 -33.19 KCYN0093 10/4/2022 9:52 43.90 39.30 0.00 16.80 128.40 127.40 -6.59 KCYN0094 10/4/2022 8:08 46.70 37.60 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 8:17 53.40 40.40 1.40 40.40 72.10 72.00 -6.61 KCYN0095 10/4/2022 8:17 53.40 40.40 1.40 4.80 123.00 122.90 -37.45 KCYN0097 10/4/2022 8:12 44.50 38.60 0.00 <td>KCYN0087</td> <td>10/5/2022 8:43</td> <td>40.50</td> <td>36.50</td> <td>0.00</td> <td>23.00</td> <td>130.60</td> <td>127.20</td> <td>-16.60</td> <td>-16.22</td>	KCYN0087	10/5/2022 8:43	40.50	36.50	0.00	23.00	130.60	127.20	-16.60	-16.22
KCYN0090 10/4/2022 8:29 49.20 38.00 0.00 12.80 99.00 99.20 -21.17 KCYN0091 10/4/2022 7:40 46.30 39.30 0.00 14.40 129.30 129.50 -25.57 KCYN0092 10/4/2022 9:41 56.00 41.00 0.00 3.00 126.60 126.70 -33.19 KCYN0093 10/4/2022 9:52 43.90 39.30 0.00 16.80 128.40 127.40 -6.59 KCYN0094 10/4/2022 8:08 46.70 37.60 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 11:40 30.80 27.40 1.40 40.40 72.10 72.00 -6.61 KCYN0095 10/4/2022 8:17 53.40 40.40 1.40 4.80 123.00 122.90 -37.45 KCYN0097 10/4/2022 8:12 44.50 38.60 0.00 17.30 126.80 124.90 -10.43 KCYN0098 10/3/2022 8:12 43.70 37.20 0.00 </td <td>KCYN0088</td> <td>10/4/2022 8:41</td> <td>51.00</td> <td>38.20</td> <td>0.00</td> <td>10.80</td> <td>109.90</td> <td>109.90</td> <td>-34.77</td> <td>-34.75</td>	KCYN0088	10/4/2022 8:41	51.00	38.20	0.00	10.80	109.90	109.90	-34.77	-34.75
KCYN0091 10/4/2022 7:40 46.30 39.30 0.00 14.40 129.30 129.50 -25.57 KCYN0092 10/4/2022 9:41 56.00 41.00 0.00 3.00 126.60 126.70 -33.19 KCYN0093 10/4/2022 9:52 43.90 39.30 0.00 16.80 128.40 127.40 -6.59 KCYN0094 10/4/2022 8:08 46.70 37.60 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 11:40 30.80 27.40 1.40 40.40 72.10 72.00 -6.61 KCYN0095 10/4/2022 8:17 53.40 40.40 1.40 4.80 123.00 122.90 -37.45 KCYN0097 10/4/2022 8:12 44.50 38.60 0.00 17.30 126.80 124.90 -10.43 KCYN0098 10/4/2022 8:52 49.70 37.20 0.00 19.10 129.60 126.20 -8.82 KCYN0101 10/4/2022 8:33 51.70 37.80 0.00<										-25.27
KCYN0092 10/4/2022 9:41 56.00 41.00 0.00 3.00 126.60 126.70 -33.19 KCYN0093 10/4/2022 9:52 43.90 39.30 0.00 16.80 128.40 127.40 -6.59 KCYN0094 10/4/2022 8:08 46.70 37.60 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 11:40 30.80 27.40 1.40 40.40 72.10 72.00 -6.61 KCYN0095 10/4/2022 8:17 53.40 40.40 1.40 4.80 123.00 122.90 -37.45 KCYN0097 10/4/2022 8:12 44.50 38.60 0.00 13.20 121.00 121.00 -19.26 KCYN0098 10/4/2022 8:12 44.50 38.20 0.00 17.30 126.80 124.90 -10.43 KCYN0099 10/3/2022 11:29 43.70 37.20 0.00 19.10 129.60 126.20 -8.82 KCYN0101 10/4/2022 8:33 51.70 37.80 0.00										-21.16
KCYN0093 10/4/2022 9:52 43.90 39.30 0.00 16.80 128.40 127.40 -6.59 KCYN0094 10/4/2022 8:08 46.70 37.60 0.00 15.70 125.10 125.00 -38.79 KCYN0094 10/4/2022 11:40 30.80 27.40 1.40 40.40 72.10 72.00 -6.61 KCYN0095 10/4/2022 8:17 53.40 40.40 1.40 4.80 123.00 122.90 -37.45 KCYN0097 10/4/2022 7:46 48.20 38.60 0.00 17.30 126.80 124.90 -10.43 KCYN0098 10/4/2022 8:12 44.50 38.20 0.00 17.30 126.80 124.90 -10.43 KCYN0099 10/3/2022 11:29 43.70 37.20 0.00 19.10 129.60 126.20 -8.82 KCYN0101 10/4/2022 8:55 49.70 37.20 0.00 13.10 75.60 75.50 -0.83 KCYN0102 10/4/2022 8:31 58.00 42.00 0.00 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-22.69</td>							-			-22.69
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KCYN0124 10/5/2022 10:15 56.60 41.00 0.00 2.40 108.50 110.50 -0.31										-3.68
VOVAIGNES 10/5/0000 0 0 57 00 11 12 12 12 12 12 12 12 12 12 12 12 12		10/5/2022 10:15	56.60	41.00	0.00		108.50	110.50	-0.31	-0.53
KCYNU125 10/5/2022 9:00 57.30 41.10 0.00 1.60 130.50 130.30 -18.82	KCYN0125	10/5/2022 9:00	57.30	41.10	0.00	1.60	130.50	130.30	-18.82	-18.88

Wellfield Monitoring Report - October 3, 4, and 5, 2022

Device Name	Date Time	CH₄ % by Volume	CO ₂ % by Volume	O ₂ % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0127	10/5/2022 9:44	57.90	42.10	0.00	0.00	101.00	103.70	-2.47	-2.50
KCYN0128	10/5/2022 10:25	52.30	42.00	0.00	5.70	130.50	129.10	-29.02	-29.07
KCYN0129	10/3/2022 10:05	54.30	41.30	0.60	3.80	124.40	124.50	-29.80	-29.81
KCYN0130	10/3/2022 8:57	52.90	39.20	0.00	7.90	114.80	114.60	-8.39	-8.60
KCYN0131	10/3/2022 8:45	56.90	43.10	0.00	0.00	114.00	114.30	-37.97	-38.31
KCYN0133	10/4/2022 10:00	45.70	40.60	0.00	13.70	127.50	123.30	-29.64	-19.58
KCYN0134	10/4/2022 10:09	52.60	42.00	0.00	5.40	112.10	112.10	-28.75	-28.83
KCYN0135	10/4/2022 10:17	51.80	42.50	0.00	5.70	129.60	130.60	-22.11	-25.72
KCYNLR04	10/4/2022 10:24	56.50	40.70	0.00	2.80	100.60	100.60	-8.20	-9.78
KCYNLR08	10/3/2022 11:14	1.60	11.80	17.60	69.00	76.30	76.50	-46.50	-46.50
KCYNLR11	10/3/2022 8:18	60.10	39.90	0.00	0.00	60.20	61.30	-0.14	-0.20

*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 October 31, 2022, there are 78 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
Wellfield Monitoring Report - November 1, 2, 4, 7, and 17, 2022

		CH₄	CO2	O ₂	Balance	Initial	Adjusted	Initial	Adjusted
Device Name	Date Time	% by	% by	% by	% by	Temperature	Temperature	Pressure	Pressure
		Volume	Volume	Volume	Volume	(degrees F)	(degrees F)	(in. w.c.)	(in. w.c.)
KCLC0108	11/1/2022 7:47	53.3	38.2	0.3	8.2	75.7	82.0	-11.0	-32.3
KCLC0109	11/1/2022 7:53	59.1	40.4	0.0	0.5	99.7	99.8	-38.7	-38.7
KCLC0110	11/1/2022 8:00	57.4	42.6	0.0	0.0	106.8	106.7	-38.3	-38.3
KCLC0111	11/1/2022 8:08	56.9	43.1	0.0	0.0	81.4	81.9	-38.0	-37.3
KCLC0112	11/1/2022 8:05	57.2 53.4	42.8 42.8	0.0	0.0 3.8	108.3	108.4	-35.5 -23.2	-35.9 -23.2
KCLC0139 KCLC0140	11/4/2022 11:33 11/4/2022 11:30	40.4	36.7	0.0	22.9	125.0 113.5	125.1 113.5	-23.2 -5.4	-23.2 -5.4
KCLC0141	11/4/2022 11:30	25.5	30.7	0.0	44.3	92.9	95.1	-2.1	-2.1
KCLC0142	11/4/2022 12:24	19.2	26.9	0.0	53.9	98.4	72.8	-0.2	-0.2
KCLC0143	11/4/2022 11:59	27.8	30.9	0.0	41.3	105.6	104.7	-0.9	-0.7
KCLC0145	11/2/2022 9:26	57.7	42.2	0.1	0.0	55.0	55.0	-34.1	-33.5
KCLC0147	11/2/2022 9:21	53.8	39.4	1.7	5.1	53.1	53.1	-33.5	-33.6
KCLC0149	11/2/2022 9:29	47.4	38.6	0.0	14.0	95.6	93.8	-7.4	-2.1
KCLC0151	11/2/2022 9:17	56.6	43.4	0.0	0.0	114.4	114.5	-24.0	-24.6
KCLC0152	11/2/2022 9:12	44.6	38.3	0.0	17.1	109.1	108.2	-10.3	-9.8
KCLC0153	11/2/2022 9:33	49.3	41.7	0.0	9.0 12.9	98.6	98.8 94.0	-2.2	-2.4
KCLC0154 KCLC0155	11/2/2022 9:37 11/2/2022 9:41	47.1 51.2	40.0 41.6	0.0	7.2	94.0 106.9	107.0	-0.8 -5.7	-0.8 -5.9
KCLC0155 KCLC0156	11/2/2022 9:41	55.1	43.0	0.0	1.9	96.7	96.7	-32.6	-32.9
KCLC0157	11/2/2022 9:58	50.2	39.1	2.5	8.2	50.6	50.5	-25.6	-25.6
KCLC0158	11/4/2022 12:12	38.2	35.7	0.0	26.1	83.7	81.8	-1.3	-1.1
KCLC0159	11/1/2022 8:44	49.6	38.0	2.0	10.4	104.2	103.4	-3.9	-2.2
KCLC0160	11/1/2022 8:38	56.4	43.6	0.0	0.0	100.2	100.5	-36.1	-35.9
KCLC0161	11/1/2022 11:12	42.4	37.7	0.0	19.9	114.7	114.6	-28.5	-26.2
KCYN0014	11/1/2022 7:41	52.9	32.5	0.0	14.6	98.8	100.2	-2.8	-3.5
KCYN0027	11/1/2022 9:42	45.3	37.8	0.0	16.9	117.9	116.7	-41.2	-33.9
KCYN0048	11/1/2022 8:30	56.4	43.6	0.0	0.0	83.3	125.0	-0.6	-3.4
KCYN0051 KCYN0054	11/4/2022 12:05 11/4/2022 11:20	42.5 40.8	40.8 34.2	0.0	16.7 25.0	102.5 69.1	101.8 72.4	-3.8 -5.3	-1.5 -10.9
KCYN0056	11/7/2022 11:20	51.0	44.6	0.0	4.4	125.4	125.4	-28.6	-28.5
KCYN0057	11/4/2022 9:08	48.8	40.8	0.0	10.4	126.6	129.3	-24.2	-24.8
KCYN0058	11/4/2022 9:03	56.0	37.0	0.2	6.8	92.2	92.3	-1.6	-1.5
KCYN0062	11/2/2022 7:42	57.8	42.2	0.0	0.0	123.6	128.3	-1.1	-5.2
KCYN0063	11/2/2022 7:37	60.2	39.8	0.0	0.0	110.3	115.8	-0.2	-1.2
KCYN0065	11/4/2022 11:27	57.6	42.4	0.0	0.0	101.5	110.1	-5.0	-16.5
KCYN0066	11/1/2022 8:25	58.6	41.4	0.0	0.0	125.8	126.7	-5.1	-6.9
KCYN0070	11/1/2022 8:55	45.1	36.5	0.0	18.4	111.7	110.8	-6.5	-3.7
KCYN0071	11/1/2022 9:18	51.7	39.8	0.0	8.5	128.7	130.9	-18.4	-19.4
KCYN0072 KCYN0074	11/2/2022 7:47 11/2/2022 8:44	61.6 57.0	38.3 43.0	0.0	0.1	97.5 130.6	104.2 130.8	-0.4 -43.4	-1.2 -43.2
KCYN0074 KCYN0075	11/4/2022 11:39	55.2	42.8	0.0	2.0	124.4	119.8	-43.4	-43.2
KCYN0076	11/1/2022 10:46	50.5	40.2	0.0	9.3	130.1	130.5	-27.9	-28.4
KCYN0078	11/2/2022 10:53	53.0	41.5	0.0	5.5	130.5	130.5	-29.4	-29.4
KCYN0082	11/4/2022 11:16	47.1	34.5	0.0	18.4	115.0	114.0	-2.1	-1.6
KCYN0084	11/4/2022 11:55	46.0	37.7	0.1	16.2	108.2	108.5	-0.2	-0.2
KCYN0086	11/2/2022 9:50	55.2	42.3	0.6	1.9	130.9	130.4	-22.8	-23.5
KCYN0087	11/2/2022 10:35	38.3	37.0	0.0	24.7	127.1	128.4	-15.1	-15.5
KCYN0088	11/2/2022 8:29	45.9	36.8	0.0	17.3	109.7	97.3	-39.8	-23.1
KCYN0089	11/1/2022 10:51	49.4	39.7	0.0	10.9 22.0	130.6	129.5 102.7	-24.6 26.0	-24.6
KCYN0090 KCYN0091	11/2/2022 8:16 11/1/2022 8:48	41.9 48.8	36.1 39.2	0.0	12.0	100.6 130.1	102.7	-26.0 -18.2	-28.4 -17.1
KCYN0091 KCYN0092	11/2/2022 8:40	56.9	42.2	0.0	0.9	126.8	126.7	-34.5	-33.7
KCYN0093	11/2/2022 8:49	57.3	42.7	0.0	0.0	121.5	127.3	-1.2	-2.5
KCYN0094	11/2/2022 8:05	45.1	37.3	0.0	17.6	127.3	126.6	-20.5	-16.0
KCYN0095	11/2/2022 8:09	55.1	40.5	1.5	2.9	123.7	123.9	-37.4	-38.5
KCYN0097	11/1/2022 8:52	42.3	36.9	0.7	20.1	120.7	120.1	-19.3	-13.8
KCYN0098	11/2/2022 8:02	53.6	38.9	0.0	7.5	129.8	129.8	-3.8	-4.6
KCYN0099	11/1/2022 9:00	57.1	42.9	0.0	0.0	125.0	130.5	-0.8	-2.3
KCYN0101	11/1/2022 9:36	43.9	36.5	0.0	19.6	80.7	80.9	-1.0	-0.9
KCYN0102 KCYN0103	11/2/2022 8:22	38.5	34.3 34.7	0.0	27.2 27.4	100.1	100.3 114.2	-1.4 -7.1	-1.3 -6.0
KCYN0103 KCYN0105	11/1/2022 9:21 11/1/2022 8:14	37.9 56.8	43.2	0.0	0.0	117.4 73.8	73.8	-7.1	-6.0
KCYN0103 KCYN0118	11/1/2022 11:16	50.8	40.5	0.0	8.7	119.6	119.5	-37.6	-35.9
KCYN0119	11/1/2022 11:10	44.8	37.7	0.0	17.5	130.8	129.1	-12.3	-6.9
KCYN0121	11/1/2022 8:35	55.6	44.4	0.0	0.0	108.7	109.1	-33.9	-33.9
KCYN0122	11/1/2022 11:08	55.2	40.1	0.2	4.5	109.3	109.3	-32.4	-32.4
KCYN0123	11/4/2022 11:45	41.4	35.8	4.3	18.5	122.7	124.3	-2.9	-2.9
KCYN0124	11/4/2022 12:09	51.1	40.9	0.0	8.0	110.9	111.3	-2.0	-2.7
1101110121							107.4	04.0	24.6
KCYN0125 KCYN0126	11/4/2022 11:24 11/4/2022 11:35	55.6 51.4	42.1 41.8	0.0	2.3 6.8	129.9 125.8	127.4 125.8	-21.2 -16.8	-21.6 -16.8

Wellfield Monitoring Report - November 1, 2, 4, 7, and 17, 2022

Device Name	Date Time	CH₄ % by Volume	CO ₂ % by Volume	O ₂ % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0128	11/4/2022 10:19	43.7	37.2	0.0	19.1	127.9	128.0	-7.7	-7.8
KCYN0129	11/2/2022 9:08	56.2	42.7	0.3	0.8	113.9	113.9	-29.9	-29.9
KCYN0130	11/1/2022 8:21	53.9	39.4	0.0	6.7	114.6	114.6	-9.2	-9.6
KCYN0131	11/1/2022 8:17	57.2	42.7	0.1	0.0	113.7	113.6	-39.1	-38.4
KCYN0133	11/2/2022 10:50	56.0	42.1	0.0	1.9	120.8	124.4	-2.8	-8.3
KCYN0134	11/2/2022 10:56	44.4	39.3	0.0	16.3	112.2	112.1	-28.3	-28.2
KCYN0135	11/2/2022 11:00	46.9	41.0	0.0	12.1	130.3	129.4	-26.4	-15.2
KCYNLR04	11/2/2022 11:06	55.3	38.9	0.2	5.6	100.3	100.3	-8.0	-8.0
KCYNLR04	11/7/2022 8:14	54.8	36.9	0.2	8.1	100.1	100.2	-8.3	-8.3
KCYNLR08	11/17/2022 14:37	0.2	2.6	19.9	77.3	100.0	100.4	0.0	0.0
KCYNLR11	11/1/2022 7:50	60.0	39.8	0.0	0.2	54.9	55.1	-0.3	-0.4

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 November 30, 2022, there are 78 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

^{%=} percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY Wellfield Monitoring Report - December 2, 5, 7, 9, and 12, 2022

Device Name	Date Time	CH₄ % by Volume	CO ₂ % by Volume	O ₂ % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	12/7/2022 12:49	41.50	33.00	0.00	25.50	94.50	92.20	-37.20	-23.92
KCLC0109	12/7/2022 13:00	56.40	40.50	0.00	3.10	101.90	101.90	-40.76	-41.23
KCLC0110	12/7/2022 13:04	57.40	42.60	0.00	0.00	113.30	113.30	-40.69	-40.25
KCLC0111	12/12/2022 14:32	58.80	41.00	0.20	0.00	68.80	68.80	-40.94	-40.96
KCLC0112	12/9/2022 12:02	57.70	42.30	0.00	0.00	111.80	111.70	-38.02	-37.61
KCLC0139	12/7/2022 9:14	55.50	43.90	0.00	0.60	124.00	124.00	-23.52	-23.52
KCLC0140 KCLC0141	12/7/2022 9:10 12/7/2022 8:35	42.80 39.00	38.70 34.70	0.00	18.50 26.30	111.70 93.20	111.60 93.10	-4.38 -1.86	-4.36 -1.85
KCLC0141 KCLC0142	12/7/2022 8:30	38.70	31.50	0.00	29.80	75.00	79.80	-0.07	-0.15
KCLC0143	12/7/2022 10:11	42.40	35.50	0.00	22.10	95.10	94.80	-0.53	-0.51
KCLC0145	12/5/2022 9:17	57.30	39.40	0.80	2.50	49.30	49.30	-35.84	-35.83
KCLC0147	12/5/2022 9:05	56.50	43.20	0.30	0.00	48.30	50.00	-34.82	-33.89
KCLC0149	12/5/2022 9:22	58.70	41.30	0.00	0.00	54.80	59.50	-1.77	-5.75
KCLC0151	12/5/2022 8:59	57.20	42.80	0.00	0.00	111.40	111.50	-32.87	-33.56
KCLC0152	12/5/2022 8:55	54.00	40.60	0.00	5.40	109.00	110.30	-11.30	-13.18
KCLC0153	12/5/2022 9:25	49.30	41.00	0.00	9.70	98.00	98.00	-3.09	-3.06
KCLC0154	12/5/2022 9:28	48.60	40.00	0.00	11.40	93.10	93.10	-0.76	-0.75
KCLC0155	12/5/2022 9:31	52.10	41.50	0.00	6.40	107.30	107.30	-6.58	-7.20
KCLC0156 KCLC0157	12/5/2022 9:36 12/5/2022 10:06	56.80 46.10	43.00 34.50	0.00 3.90	0.20 15.50	96.50 49.20	96.50 49.00	-33.10 -31.11	-33.10 -30.68
KCLC0157 KCLC0158	12/7/2022 10:06	39.30	38.60	0.00	22.10	66.80	72.30	-31.11	-30.08
KCLC0150 KCLC0159	12/2/2022 7:57	60.70	39.30	0.00	0.00	82.70	104.10	-0.83	-5.09
KCLC0160	12/2/2022 12:24	56.90	43.10	0.00	0.00	99.80	100.20	-37.59	-37.52
KCLC0161	12/2/2022 12:17	53.00	41.20	0.00	5.80	113.50	113.90	-25.37	-29.97
KCYN0014	12/7/2022 12:45	48.20	31.10	0.00	20.70	103.90	103.80	-5.94	-5.78
KCYN0027	12/2/2022 11:05	56.50	42.60	0.10	0.80	116.00	116.00	-39.78	-39.82
KCYN0048	12/9/2022 12:18	47.40	32.80	0.00	19.80	102.40	101.20	-3.45	-1.45
KCYN0051	12/7/2022 10:17	50.80	43.20	0.00	6.00	95.80	97.80	-3.31	-6.39
KCYN0054	12/7/2022 8:52	22.00	24.90	2.10	51.00	60.80	58.40	-37.54	-40.90
KCYN0056	12/9/2022 11:49	55.80	41.70	0.10	2.40	126.20	126.20	-29.50	-29.44
KCYN0057	12/7/2022 9:48	49.20	40.60	0.00	10.20	126.20	128.30	-22.86	-22.84
KCYN0058	12/7/2022 9:31	54.60	40.70	0.00	4.70	87.20	87.50	-1.31	-1.30
KCYN0062 KCYN0063	12/2/2022 8:43 12/2/2022 8:39	48.70 55.90	38.60 36.30	0.00	12.70 7.80	128.40 116.80	127.70 117.10	-7.25 -0.49	-3.88 -0.56
KC1N0065 KCYN0065	12/7/2022 9:07	49.80	39.90	0.40	9.90	100.40	103.30	-3.49	-9.39
KCYN0066	12/12/2022 14:44	52.90	38.90	0.00	8.20	127.00	127.20	-12.62	-15.29
KCYN0070	12/2/2022 8:19	59.10	39.40	0.00	1.50	100.60	105.60	-2.20	-3.96
KCYN0071	12/2/2022 10:14	51.80	39.60	0.00	8.60	130.80	130.70	-24.13	-25.46
KCYN0072	12/2/2022 8:47	51.70	37.80	0.00	10.50	109.10	109.50	-2.25	-2.81
KCYN0074	12/2/2022 11:14	56.30	43.70	0.00	0.00	130.50	130.50	-42.13	-42.84
KCYN0075	12/7/2022 9:27	55.00	45.00	0.00	0.00	129.10	129.10	-23.02	-23.11
KCYN0076	12/2/2022 11:55	53.70	42.40	0.00	3.90	129.10	126.20	-29.96	-30.00
KCYN0078	12/7/2022 8:06	54.30	40.30	0.00	5.40	130.50	130.70	-30.71	-30.81
KCYN0082	12/7/2022 10:29	57.70	42.30	0.00	0.00	107.00	110.30	-0.69	-0.97
KCYN0084	12/7/2022 10:01	54.90 58.30	41.20	0.00	3.90 4.20	105.40 129.40	114.40 130.90	-0.20	-0.99
KCYN0086 KCYN0087	12/5/2022 10:02 12/7/2022 10:52	37.80	36.80 37.80	0.70	24.40	125.80	123.10	-28.35 -19.43	-28.98 -10.10
KCYN0088	12/2/2022 10:32	59.40	40.60	0.00	0.00	82.10	92.90	-0.02	-0.87
KCYN0089	12/2/2022 8:05	53.70	38.80	0.00	7.50	127.80	127.30	-26.43	-26.42
KCYN0090	12/2/2022 9:51	59.00	39.90	0.00	1.10	100.80	106.30	-25.53	-32.98
KCYN0091	12/2/2022 8:57	54.30	40.50	0.00	5.20	128.10	127.30	-12.80	-14.32
KCYN0092	12/2/2022 11:10	57.30	42.70	0.00	0.00	126.70	126.70	-33.01	-33.13
KCYN0093	12/2/2022 11:24	52.70	39.90	0.00	7.40	130.40	130.70	-5.40	-6.53
KCYN0094	12/2/2022 9:46	58.60	40.70	0.00	0.70	125.30	126.20	-6.96	-8.71
KCYN0095	12/2/2022 9:37	58.10	41.90	0.00	0.00	124.40	124.40	-39.13	-38.70
KCYN0097	12/2/2022 8:10	59.20	40.80	0.00	0.00	118.00	119.10	-4.87	-7.20
KCYN0098 KCYN0099	12/2/2022 9:41	54.90	40.00	0.00	5.10	130.40	130.10	-5.65 5.39	-6.75 6.02
KCYN0099 KCYN0101	12/2/2022 8:24 12/2/2022 10:03	53.40 58.90	41.60 38.30	0.00	5.00 2.80	130.80 89.60	130.70 96.50	-5.38 -0.20	-6.02 -0.51
KCYN0101 KCYN0102	12/2/2022 10:03	54.30	38.40	0.00	7.30	103.30	105.60	-0.20	-0.51
KCYN0102 KCYN0103	12/2/2022 9:38	58.40	40.40	0.00	1.20	112.90	117.50	-1.94	-4.67
KCYN0105	12/9/2022 12:07	57.50	42.20	0.00	0.30	73.80	74.10	-36.24	-36.38
KCYN0118	12/2/2022 12:20	55.30	41.50	0.00	3.20	118.70	118.80	-34.37	-35.25
KCYN0119	12/2/2022 12:06	56.40	43.60	0.00	0.00	130.10	130.40	-2.78	-3.32
KCYN0121	12/2/2022 12:28	57.70	41.70	0.00	0.60	114.50	114.70	-35.37	-35.29
KCYN0122	12/2/2022 12:13	55.90	44.10	0.00	0.00	109.20	109.10	-35.07	-35.17
KCYN0123	12/7/2022 9:40	44.30	37.60	2.80	15.30	127.00	110.60	-4.40	-2.77
KCYN0124	12/7/2022 10:21	43.80	38.50	0.00	17.70	111.10	110.60	-4.06	-2.55

Wellfield Monitoring Report - December 2, 5, 7, 9, and 12, 2022

Device Name	Date Time	CH₄ % by Volume	CO₂ % by Volume	O ₂ % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0125	12/7/2022 9:02	56.90	42.70	0.00	0.40	130.20	130.30	-22.17	-22.12
KCYN0126	12/7/2022 9:18	51.50	41.80	0.00	6.70	125.80	125.80	-16.97	-16.95
KCYN0127	12/7/2022 9:54	55.20	42.10	0.00	2.70	103.60	115.40	-3.17	-7.18
KCYN0128	12/5/2022 10:12	52.00	39.40	0.00	8.60	130.80	130.20	-30.76	-30.83
KCYN0129	12/5/2022 8:50	57.70	41.90	0.20	0.20	112.40	112.50	-32.06	-32.08
KCYN0130	12/12/2022 14:55	53.80	38.50	0.00	7.70	114.30	114.20	-10.62	-11.26
KCYN0131	12/9/2022 12:11	56.60	42.70	0.00	0.70	109.50	111.30	-41.53	-41.45
KCYN0133	12/7/2022 8:01	52.90	38.90	0.00	8.20	124.90	126.20	-13.65	-18.72
KCYN0134	12/7/2022 8:12	46.80	38.20	0.00	15.00	110.30	86.90	-30.75	-12.46
KCYN0135	12/7/2022 8:17	56.60	43.40	0.00	0.00	126.90	129.40	-7.91	-15.98
KCYNLR04	12/7/2022 8:23	56.10	39.40	0.10	4.40	98.60	98.60	-9.91	-11.54
KCYNLR08	12/2/2022 8:32	49.30	38.50	1.30	10.90	53.30	54.10	-3.00	-3.06
KCYNLR08	12/7/2022 11:32	4.60	3.30	18.40	73.70	59.80	60.20	-19.40	-19.41
KCYNLR08	12/9/2022 9:17	42.00	29.70	2.80	25.50	47.00	47.00	-46.35	-47.02
KCYNLR11	12/9/2022 12:33	60.00	40.00	0.00	0.00	65.20	65.20	-0.05	-0.46

^{*}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 December 31, 2022, there are 78 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

^{%=} percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

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

September 6, 2022 (via email: compliance@baaqmd.gov)

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

Re: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,

Section I.F Title V, 10 and 30-Day written report

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 10 and 30-day Title V written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for KCRDF.

A breakdown report was submitted on September 1, 2022, ~ 12:15 PM and ~4::30 PM (Addendum RCA form) by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down due to an Enhanced Powerline Safety Setting (PG&E wildfire prevention efforts for safety) and to clear birds nest. The standby emergency generator was started during the initial power outage event and flare was online on Thursday, September 1, 2022, around ~10:00 AM. The flare was started at ~1:44 PM after the second power outage event (see Attachment A for flare data). Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, KCRDF submitted the request for Breakdown Relief from BAAQMD for the September 1, 2022, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on September 1, 2022 and was assigned RCA numbers 08L39 and 08L40 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdowns noted in RCA numbers 08L39 and 08L40 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 (408) 779-2206.

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Enrique Perez

District Manager

cc: Erin Phillips, BAAQMD

Paul Enrique Perez

Attachments:

Attachment A- KCRDF flare data

Attachment B- Copy of KCRDF RCA Form 08L39 and 08L40

Attachment A KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

		Flare F		Fla SC	
Date	Time	MIN	MAX	MIN	MAX
2022/09/01	07:00:00	1635	1650	1518	1543
2022/09/01	07:02:00	1635	1652	1512	1546
2022/09/01 2022/09/01	07:04:00 07:06:00	1631	1653	1518	1541
2022/09/01	07:08:00	1633 1635	1650 1650	1515 1515	1545 1541
2022/09/01	07:10:00	1635	1650	1517	1541
2022/09/01	07:12:00	1633	1650	1518	1540
2022/09/01 2022/09/01	07:14:00 07:16:00	1636 1632	1650 1650	1512 1518	1543 1544
2022/09/01	07:18:00	1634	1648	1517	1544
2022/09/01	07:20:00	1635	1655	1515	1545
2022/09/01	07:22:00	1633	1653	1515	1541
2022/09/01 2022/09/01	07:24:00 07:26:00	1632 1635	1652 1650	1518 1517	1540 1543
2022/09/01	07:28:00	1633	1650	1512	1541
2022/09/01	07:30:00	1635	1650	1517	1541
2022/09/01 2022/09/01	07:32:00 07:34:00	1635 1635	1647 1659	1517 1515	1541 1545
2022/09/01	07:34:00	1633	1660	1517	1541
2022/09/01	07:38:00	1635	1653	1513	1540
2022/09/01	07:40:00	1633	1653	1517	1548
2022/09/01 2022/09/01	07:42:00 07:44:00	1635 1636	1648 1652	1515 1521	1541 1548
2022/09/01	07:46:00	1635	1648	1512	1541
2022/09/01	07:48:00	1635	1648	1517	1543
2022/09/01 2022/09/01	07:50:00 07:52:00	1635 1631	1652 1652	1515 1517	1546 1548
2022/09/01	07:52:00	1633	1648	1520	1546
2022/09/01	07:56:00	1635	1648	1512	1546
2022/09/01	07:58:00	1638	1646	1518	1545
2022/09/01 2022/09/01	08:00:00 08:02:00	1636 1636	1654 1654	1523 1525	1548 1549
2022/09/01	08:04:00	1633	1654	1521	1551
2022/09/01	08:06:00	1636	1647	1525	1549
2022/09/01 2022/09/01	08:08:00 08:10:00	1633 1636	1650 1645	1524 1519	1548 1551
2022/09/01	08:10:00	1633	1655	1521	1549
2022/09/01	08:14:00	1635	1655	1526	1550
2022/09/01	08:16:00	1633	1652	1524	1554
2022/09/01 2022/09/01	08:18:00 08:20:00	1638 1635	1645 1648	1524 1521	1546 1547
2022/09/01	08:22:00	1635	1654	1521	1550
2022/09/01	08:24:00				
2022/09/01 2022/09/01	08:26:00 08:28:00				
2022/09/01	08:30:00				
2022/09/01	08:32:00				
2022/09/01 2022/09/01	08:34:00 08:36:00				
2022/09/01	08:38:00				
2022/09/01	08:40:00				
2022/09/01	08:42:00				
2022/09/01 2022/09/01	08:44:00 08:46:00				
2022/09/01	08:48:00				
2022/09/01	08:50:00				
2022/09/01 2022/09/01	08:52:00 08:54:00				
2022/09/01	08:56:00				
2022/09/01	08:58:00				
2022/09/01 2022/09/01	09:00:00 09:02:00				
2022/09/01	09:02:00				
2022/09/01	09:06:00				
2022/09/01	09:08:00				
2022/09/01 2022/09/01	09:10:00 09:12:00				
2022/09/01	09:14:00				
2022/09/01	09:16:00				
2022/09/01 2022/09/01	09:18:00 09:20:00				
2022/09/01	09:20:00				
2022/09/01	09:24:00				
2022/09/01 2022/09/01	09:26:00				
2022/09/01	09:28:00 09:30:00				
2022/09/01	09:32:00				
2022/09/01	09:34:00				
2022/09/01	09:36:00				

2022/09/01	09:38:00				
	09:40:00				
2022/09/01					400
2022/09/01	09:42:00	91	92	-399	108
2022/09/01	09:44:00	90	96	35	1525
2022/09/01	09:46:00	96	291	48	2149
2022/09/01	09:48:00	291	314	46	51
2022/09/01	09:50:00	276	310	45	48
2022/09/01	09:52:00	240	276	45	48
			240		
2022/09/01	09:54:00	207		45	48
2022/09/01	09:56:00	182	207	45	48
2022/09/01	09:58:00	162	182	45	831
2022/09/01	10:00:00	162	502	831	2130
2022/09/01	10:02:00	502	964	1748	1879
2022/09/01	10:04:00	964	1358	1745	1845
2022/09/01	10:06:00	1358	1524	1777	1817
2022/09/01		1524			1797
	10:08:00		1601	1761	
2022/09/01	10:10:00	1599	1636	1741	1774
2022/09/01	10:12:00	1623	1638	1707	1754
2022/09/01	10:14:00	1630	1645	1712	1742
2022/09/01	10:16:00	1630	1645	1707	1734
2022/09/01	10:18:00	1637	1641	1697	1722
2022/09/01	10:20:00	1638	1652	1689	1722
2022/09/01	10:22:00	1633			1716
			1648	1687	
2022/09/01	10:24:00	1630	1645	1690	1719
2022/09/01	10:26:00	1629	1647	1634	1712
2022/09/01	10:28:00	1632	1652	689	1671
2022/09/01	10:30:00				
2022/09/01	10:32:00				
2022/09/01	10:34:00				
2022/09/01	10:36:00	584	664	-405	103
2022/09/01	10:38:00	494	584	50	50
2022/09/01	10:40:00	425	494	50	50
2022/09/01	10:42:00	372	425	50	50
2022/09/01	10:44:00	327	372	50	50
2022/09/01	10:46:00	291	327	49	50
2022/09/01	10:48:00	263	291	49	50
2022/09/01	10:50:00	234	263	49	411
2022/09/01	10:52:00	232	520	411	2011
2022/09/01	10:54:00	520	934	1689	1813
2022/09/01	10:56:00	934	1314	1676	1709
2022/09/01	10:58:00	1314	1523	1679	1729
2022/09/01	11:00:00	1523	1589	1647	1710
2022/09/01	11:02:00	1589	1618	1637	1672
2022/09/01	11:04:00	1618	1644	1633	1670
2022/09/01	11:06:00	1627	1649	1632	1662
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2022/09/01	11:12:00	1634	1649	1618	1652
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2022/09/01	11:18:00	1632	1649	1612	1640
2022/09/01	11:20:00	1632	1652	1610	1642
	11:22:00			1602	
2022/09/01		1639	1646		1640
2022/09/01	11:24:00	1637	1649	1608	1635
2022/09/01	11:26:00	1633	1649	1605	1638
2022/09/01	11:28:00	1637	1649	1602	1632
2022/09/01	11:30:00	1640	1648	1608	1636
2022/09/01	11:32:00	1635	1648	1606	1635
2022/09/01	11:34:00	1635	1650	1607	1633
2022/09/01	11:36:00	1632	1650	1604	1630
2022/09/01	11:38:00	1634	1650	1603	1628
2022/09/01					
	11:40:00	1632	1652	1603	1625
2022/09/01	11:42:00	1632	1650	1603	1628
2022/09/01	11:44:00	1634	1649	1603	1627
2022/09/01	11:46:00	1634	1653	1601	1625
2022/09/01	11:48:00	1633	1653	1599	1626
2022/09/01	11:50:00	1633	1647	1599	1626
2022/09/01	11:52:00	1633	1653	1598	1629
	11:54:00				
2022/09/01		1635	1650	1599	1633
2022/09/01	11:56:00	1633	1654	1599	1626
2022/09/01	11:58:00	1632	1652	1603	1624
2022/09/01	12:00:00	1633	1652	1599	1623
2022/09/01	12:02:00	1631	1652	1598	1629
2022/09/01	12:04:00	1632	1652	1599	1634
2022/09/01	12:06:00	1634	1654	1593	1621
2022/09/01	12:08:00	1633	1653	1596	1621
2022/09/01	12.00.00	1033	1000	1980	1021

2022/09/01 2022/09/01	12:10:00 12:12:00	1634	1648 1654	1598	1634
2022/09/01	12:12:00	1635 1635	1650	1599 1594	1626 1622
2022/09/01	12:16:00	1634	1647	1596	1622
2022/09/01	12:18:00	1635	1648	1596	1624
2022/09/01 2022/09/01	12:20:00 12:22:00	1634 1635	1652 1651	1598 1597	1622 1624
2022/09/01	12:24:00	1635	1653	1599	1620
2022/09/01	12:26:00	1635	1646	1599	1625
2022/09/01	12:28:00	1635	1653	1597	1626
2022/09/01 2022/09/01	12:30:00 12:32:00	1634 1634	1653 1651	1596 1595	1624 1627
2022/09/01	12:34:00	1632	1653	1591	1621
2022/09/01	12:36:00	1634	1651	1599	1625
2022/09/01	12:38:00	1635	1650	1599	1624
2022/09/01 2022/09/01	12:40:00 12:42:00	1635 1633	1655 1649	1591 1598	1624 1627
2022/09/01	12:44:00	1635	1649	1597	1621
2022/09/01	12:46:00	1635	1656	1591	1626
2022/09/01	12:48:00	1633	1656	1596	1629
2022/09/01	12:50:00	1635	1652	1599	1622
2022/09/01 2022/09/01	12:52:00 12:54:00				
2022/09/01	12:56:00	785	812	-378	108
2022/09/01	12:58:00	670	785	44	49
2022/09/01	13:00:00	595	670	49	49
2022/09/01 2022/09/01	13:02:00 13:04:00	537 488	595 537	49 49	49 49
2022/09/01	13:06:00	448	489	48	49
2022/09/01	13:08:00	411	448	48	49
2022/09/01 2022/09/01	13:10:00	380	412	49	49
2022/09/01	13:12:00 13:14:00	351 326	380 352	48 47	49 49
2022/09/01	13:16:00	303	326	47	49
2022/09/01	13:18:00	282	303	47	48
2022/09/01	13:20:00	267	282	47 47	48
2022/09/01 2022/09/01	13:22:00 13:24:00	250 238	267 251	47 47	48 48
2022/09/01	13:26:00	226	238	47	47
2022/09/01	13:28:00	214	226	47	48
2022/09/01	13:30:00	200	214	47	1144
2022/09/01 2022/09/01	13:32:00 13:34:00	202 556	556 623	104 45	2016 104
2022/09/01	13:36:00	503	598	45	47
2022/09/01	13:38:00	419	503	47	47
2022/09/01	13:40:00	352	419	47	48
2022/09/01 2022/09/01	13:42:00 13:44:00	299 274	352 338	47 47	47 2069
2022/09/01	13:44:00	338	855	1769	2009
2022/09/01	13:48:00	855	1235	1732	1800
2022/09/01	13:50:00	1235	1490	1734	1793
2022/09/01	13:52:00	1490	1577	1685	1773
2022/09/01 2022/09/01	13:54:00 13:56:00	1577 1626	1626 1636	1685 1675	1713 1711
2022/09/01	13:58:00	1630	1637	1667	1697
2022/09/01	14:00:00	1625	1652	1664	1696
2022/09/01	14:02:00	1627	1644	1657	1688
2022/09/01 2022/09/01	14:04:00 14:06:00	1633 1635	1655 1654	1659 1655	1690 1680
2022/09/01 2022/09/01	14:06:00 14:08:00	1635 1635	1654 1645	1655 1656	1680 1685
2022/09/01	14:10:00	1635	1658	1652	1678
2022/09/01	14:12:00	1635	1650	1648	1675
2022/09/01	14:14:00	1630	1650	1645	1669
2022/09/01 2022/09/01	14:16:00 14:18:00	1637 1635	1653 1651	1645 1640	1667 1665
2022/09/01	14:10:00	1635	1645	1639	1664
2022/09/01	14:22:00	1639	1644	1637	1667
2022/09/01	14:24:00	1638	1655	1627	1665
2022/09/01	14:26:00	1634	1653	1633	1662
2022/09/01 2022/09/01	14:28:00 14:30:00	1631 1632	1649 1647	1639 1636	1663 1668
2022/09/01	14:32:00	1632	1655	1636	1662
2022/09/01	14:34:00	1633	1647	1631	1660
2022/09/01	14:36:00	1631	1654	1633	1659
2022/09/01	14:38:00	1635	1653	1630	1663
2022/09/01 2022/09/01	14:40:00 14:42:00	1638 1633	1649 1650	1633 1631	1663 1664
2022/09/01	14:44:00	1635	1647	1625	1653
2022/09/01	14:46:00	1636	1653	1626	1649
2022/09/01	14:48:00	1632	1646	1628	1654
2022/09/01	14:50:00	1637	1645	1630	1651
2022/09/01	14:52:00	1635	1652	1626	1653

2022/09/01	14:54:00	1632	1652	1623	1653
2022/09/01	14:56:00	1633	1652	1626	1657
2022/09/01	14:58:00	1634	1648	1622	1651
2022/09/01	15:00:00	1631	1653	1620	1649
2022/09/01	15:02:00	1636	1643	1626	1650
2022/09/01	15:04:00	1639	1647	1628	1653
2022/09/01	15:06:00	1634	1652	1623	1655
2022/09/01	15:08:00	1632	1647	1626	1658
2022/09/01	15:10:00	1637	1651	1629	1656
2022/09/01	15:12:00	1635	1650	1625	1654
2022/09/01	15:14:00	1634	1653	1630	1658
2022/09/01	15:16:00	1631	1650	1622	1660
2022/09/01	15:18:00	1632	1651	1625	1660
2022/09/01	15:20:00	1632	1651	1631	1656
2022/09/01	15:22:00	1635	1650	1626	1653
2022/09/01	15:24:00	1631	1650	1627	1655
2022/09/01	15:26:00	1635	1647	1632	1654
2022/09/01	15:28:00	1635	1648	1627	1655
2022/09/01	15:30:00	1639	1651	1627	1662

Attachment B Copy of KCRDF RCA Form 08L39 and 08L40

From: RCA Notification
To: Phadnis, Rajan

Subject: [EXTERNAL] RE: KCRDF A1812-Addendum to RCA 08L39 for PG&E power outage events on 9.1.2022

Date: Thursday, September 1, 2022 5:09:55 PM

ID# 08L40

From: Phadnis, Rajan <rphadnis@wm.com> **Sent:** Thursday, September 1, 2022 4:35 PM **To:** RCA Notification <rca@baaqmd.gov>

Cc: Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Perez, Enrique <pperez3@wm.com>; Erin Phillips <ephillips@baaqmd.gov>

Subject: KCRDF A1812-Addendum to RCA 08L39 for PG&E power outage events on 9.1.2022

I am attaching an Addendum to RCA notification form (RCA Number 08L39) for unplanned PG&E power outages on 9/1/2022, at Kirby Canyon Recycling and Disposal Facility-A1812.

Thank you, Rajan Phadnis EP Specialist

For Kirby Canyon Recycling and Disposal Facility

From: RCA Notification < rca@baaqmd.gov>
Sent: Thursday, September 1, 2022 12:29 PM
To: Phadnis, Rajan < rphadnis@wm.com>

Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

Hello,

This RCA has been assigned to ID# 08L39

From: Phadnis, Rajan <<u>rphadnis@wm.com</u>>
Sent: Thursday, September 1, 2022 12:17 PM
To: RCA Notification <<u>rca@baaqmd.gov</u>>

Cc: Colline, Christian <<u>CColline@wm.com</u>>; Erin Phillips <<u>ephillips@baaqmd.gov</u>>; Azevedo, Becky <<u>Razevedo@wm.com</u>>; Perez, Enrique <<u>pperez3@wm.com</u>>; Phadnis, Rajan <<u>rphadnis@wm.com</u>>

Subject: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

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

I am attaching the RCA notification form for unplanned PG&E power outage on 9/1/2022, 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

September 1, 2022 (via email rca@baaqmd.gov)

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

Re: Addendum to Reportable Compliance Activity (RCA 08L39) 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 Addendum Reportable Compliance Activity (RCA) Form (RCA Number 08L39 was assigned) for temporary flare shutdown event caused by unplanned utility power interruption on September 1, 2022, at ~ 8:30 AM and ~12:50 PM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on September 1, 2022, at ~4:30 PM.

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

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

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

The power was restored on September 1, 2022, at \sim 10:15 AM and at \sim 1:50 PM and the GCCS was back online. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: Addendum RCA Form (RCA Number 08L39) KCRDF Facility A1812



COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

ADDENDUM to RCA Number 08L39

See back of form for instructions → 1. BREAKDOWN RELIEF: District Use OnlyBREAKDOWN REFERENCE #: MONITOR EXCESS EMISSION or EXCURSION: District Use Only REFERENCE#: 2. NA 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) Kirby Canyon Recycling & Disposal Facility Company Site # A1812 910 Covote Creek Golf Drive, San Jose 95037 S-1 Address Source # R Phadnis Phone # 510-875-9338 Reported by Indicated Excess -NA Fax# -NA Allowable Limit **Averaging Time** 9/1/2022 at ~ 8:30 AM and 9/1/2022 at ~ 10:15 AM and Start Time/Date Clear Time 9/1/2022~12:50 PM 9/1/2022 at ~ 1:50 PM Monitor/device type(s) ► CEM ► GLM ▶ Parametric **▶**PRD ► Non-monitor Monitor description(s) Parameter(s) exceeded or not functioning due to inoperation ► TRS ►SO₂ ►NH₃ ► NO_x ► CO ►CO₂ ►H₂S ►H₂O ▶ Opacity Lead ► Flow $\bigcirc O_2$ ▶ Gauge Pressure ► Hydrocarbon Breakthrough (VOC) ▶ Temperature ► Wind Speed ► Wind Direction ► Steam ► Other (describe) Power outage Unit(s) of Measurement ► min/hr > 20% **▶**ppm **▶** ppb ▶ inches H₂O **►**mmHg ▶ ⁰Fahrenheit ► Other (describe) Ha◀ **▶** psig Event Description: This breakdown report is being submitted on 9/1/2022 at $\sim 4:30$ PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the PG&E power outage. The previous breakdown report (RCA 08L39) was submitted on 9/1/2022 at ~ 12:15 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 9/1/2022.

District Use Only					
Received by	Date	Time			

- ✓ 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 <u>rca@baagmd.gov</u>
- ✓ 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.

7	Check	D	шл

- □ 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 <u>immediately upon</u> discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

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

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

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

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

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

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

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

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

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

From: RCA Notification
To: Phadnis, Rajan

Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

Date: Thursday, September 1, 2022 12:29:29 PM

Hello,

This RCA has been assigned to ID# 08L39

From: Phadnis, Rajan <rphadnis@wm.com> **Sent:** Thursday, September 1, 2022 12:17 PM **To:** RCA Notification <rca@baaqmd.gov>

Cc: Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Phadnis, Rajan <rphadnis@wm.com>

Subject: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

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

I am attaching the RCA notification form for unplanned PG&E power outage on 9/1/2022, 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

September 6, 2022 (via email: compliance@baaqmd.gov)

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

Re: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812, Request for Breakdown Relief RCA Numbers 08L39 and 08L40 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 power outage events on September 1, 2022.

A breakdown report (Per Regulation 1, Section 431) was submitted on September 1, 2022, ~ 12:15 PM and ~4:30 PM (Addendum RCA form) by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down due to the PG&E power outage due to an Enhanced Powerline Safety Setting (PG&E wildfire prevention efforts for safety) and to clear birds nest. The standby emergency generator was started during the initial power outage event and flare was initially back online on Thursday, September 1, 2022, around ~10:00 AM. The flare was started at ~1:44 PM after the second power outage event (see Attachment A for flare data). Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, KCRDF submitted the request for Breakdown Relief from BAAQMD for the September 1, 2022, PG&E power outage events via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on September 1, 2022, and were assigned RCA numbers 08L39 and 08L40- (see Attachment B for copy of RCA submittals).

The unplanned power outage shutdown noted in RCA - 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 (408) 779-2206.

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Enrique Perez District Manager

cc: Erin Phillips, BAAQMD

Paul Enrique Perez

Attachments:

Attachment A- KCRDF flare data
Attachment B- Copy of KCRDF RCA Form Numbers 08L39 and 08L40

Attachment A KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

		Flare F		Fla SC	
Date	Time	MIN	MAX	MIN	MAX
2022/09/01	07:00:00	1635	1650	1518	1543
2022/09/01	07:02:00	1635	1652	1512	1546
2022/09/01 2022/09/01	07:04:00 07:06:00	1631 1633	1653 1650	1518 1515	1541 1545
2022/09/01	07:08:00	1635	1650	1515	1541
2022/09/01	07:10:00	1635	1650	1517	1541
2022/09/01	07:12:00	1633	1650	1518	1540
2022/09/01 2022/09/01	07:14:00 07:16:00	1636 1632	1650 1650	1512 1518	1543 1544
2022/09/01	07:18:00	1634	1648	1517	1541
2022/09/01	07:20:00	1635	1655	1515	1545
2022/09/01	07:22:00 07:24:00	1633	1653	1515	1541
2022/09/01 2022/09/01	07:24:00	1632 1635	1652 1650	1518 1517	1540 1543
2022/09/01	07:28:00	1633	1650	1512	1541
2022/09/01	07:30:00	1635	1650	1517	1541
2022/09/01 2022/09/01	07:32:00 07:34:00	1635 1635	1647 1659	1517 1515	1541 1545
2022/09/01	07:36:00	1633	1660	1517	1541
2022/09/01	07:38:00	1635	1653	1513	1540
2022/09/01	07:40:00	1633	1653	1517	1548
2022/09/01 2022/09/01	07:42:00 07:44:00	1635 1636	1648 1652	1515 1521	1541 1548
2022/09/01	07:46:00	1635	1648	1512	1541
2022/09/01	07:48:00	1635	1648	1517	1543
2022/09/01 2022/09/01	07:50:00 07:52:00	1635 1631	1652 1652	1515 1517	1546 1548
2022/09/01	07:52:00	1633	1648	1520	1546
2022/09/01	07:56:00	1635	1648	1512	1546
2022/09/01	07:58:00	1638	1646	1518	1545
2022/09/01 2022/09/01	08:00:00 08:02:00	1636 1636	1654 1654	1523 1525	1548 1549
2022/09/01	08:04:00	1633	1654	1523	1551
2022/09/01	08:06:00	1636	1647	1525	1549
2022/09/01	08:08:00	1633	1650	1524	1548
2022/09/01 2022/09/01	08:10:00 08:12:00	1636 1633	1645 1655	1519 1521	1551 1549
2022/09/01	08:14:00	1635	1655	1526	1550
2022/09/01	08:16:00	1633	1652	1524	1554
2022/09/01 2022/09/01	08:18:00 08:20:00	1638	1645	1524 1521	1546 1547
2022/09/01	08:22:00	1635 1635	1648 1654	1521	1550
2022/09/01	08:24:00				
2022/09/01	08:26:00				
2022/09/01 2022/09/01	08:28:00 08:30:00				
2022/09/01	08:32:00				
2022/09/01	08:34:00				
2022/09/01 2022/09/01	08:36:00 08:38:00				
2022/09/01	08:40:00				
2022/09/01	08:42:00				
2022/09/01	08:44:00				
2022/09/01 2022/09/01	08:46:00 08:48:00				
2022/09/01	08:50:00				
2022/09/01	08:52:00				
2022/09/01 2022/09/01	08:54:00				
2022/09/01	08:56:00 08:58:00				
2022/09/01	09:00:00				
2022/09/01	09:02:00				
2022/09/01 2022/09/01	09:04:00 09:06:00				
2022/09/01	09:08:00				
2022/09/01	09:10:00				
2022/09/01 2022/09/01	09:12:00 09:14:00				
2022/09/01	09:14:00				
2022/09/01	09:18:00				
2022/09/01	09:20:00				
2022/09/01 2022/09/01	09:22:00 09:24:00				
2022/09/01	09:24:00				
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2022/09/01	09:38:00					
2022/09/01	09:40:00					
2022/09/01	09:42:00	91	92	-399	108	
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2022/09/01	09:46:00	96	291	48	2149	
				46		
2022/09/01	09:48:00	291	314		51	
2022/09/01	09:50:00	276	310	45	48	
2022/09/01	09:52:00	240	276	45	48	
2022/09/01	09:54:00	207	240	45	48	
2022/09/01	09:56:00	182	207	45	48	
2022/09/01	09:58:00	162	182	45	831	
2022/09/01	10:00:00	162	502	831	2130	
2022/09/01	10:02:00	502	964	1748	1879	
2022/09/01	10:04:00	964	1358	1745	1845	
2022/09/01	10:06:00	1358	1524	1777	1817	
2022/09/01	10:08:00	1524	1601	1761	1797	
2022/09/01	10:10:00	1599	1636	1741	1774	
2022/09/01	10:12:00	1623	1638	1707	1754	
2022/09/01	10:14:00	1630	1645	1712	1742	
2022/09/01	10:16:00	1630	1645	1707	1734	
2022/09/01	10:18:00	1637	1641	1697	1722	
2022/09/01	10:20:00	1638	1652	1689	1722	
2022/09/01	10:22:00	1633	1648	1687	1716	
2022/09/01	10:24:00	1630	1645	1690	1719	
2022/09/01						
	10:26:00	1629	1647	1634	1712	
2022/09/01	10:28:00	1632	1652	689	1671	
2022/09/01	10:30:00					
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2022/09/01	10:36:00	584	664	-405	103	
2022/09/01	10:38:00	494	584	50	50	
2022/09/01	10:40:00	425	494	50	50	
2022/09/01	10:42:00	372	425	50	50	
2022/09/01	10:44:00	327	372	50	50	
2022/09/01	10:46:00	291	327	49	50	
2022/09/01	10:48:00	263	291	49	50	
2022/09/01	10:50:00	234	263	49	411	
2022/09/01	10:52:00	232	520	411	2011	
2022/09/01	10:54:00	520	934	1689	1813	
2022/09/01	10:56:00	934	1314	1676	1709	
2022/09/01	10:58:00	1314	1523	1679	1729	
2022/09/01	11:00:00	1523	1589	1647	1710	
2022/09/01	11:02:00	1589	1618	1637	1672	
2022/09/01	11:04:00	1618	1644	1633	1670	
2022/09/01	11:06:00	1627	1649	1632	1662	
2022/09/01	11:08:00	1633	1649	1625	1662	
2022/09/01	11:10:00	1636	1646	1619	1653	
2022/09/01	11:12:00	1634	1649	1618	1652	
2022/09/01	11:14:00	1630	1650	1618	1645	
2022/09/01	11:16:00	1633	1652	1613	1642	
2022/09/01	11:18:00	1632	1649	1612	1640	
2022/09/01	11:20:00	1632	1652	1610	1642	
2022/09/01	11:22:00				1640	
		1639	1646	1602		
2022/09/01	11:24:00	1637	1649	1608	1635	
2022/09/01						
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2022/09/01	11:28:00	1637	1649	1602	1632	
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2022/09/01	14:50:00	1637	1645	1630	1651
2022/09/01	14:52:00	1635	1652	1626	1653

2022/09/01	14:54:00	1632	1652	1623	1653
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2022/09/01	14:58:00	1634	1648	1622	1651
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2022/09/01	15:02:00	1636	1643	1626	1650
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2022/09/01	15:30:00	1639	1651	1627	1662

Attachment B Copy of KCRDF RCA Form 08L39 and 08L40

From: RCA Notification
To: Phadnis, Rajan

Subject: [EXTERNAL] RE: KCRDF A1812-Addendum to RCA 08L39 for PG&E power outage events on 9.1.2022

Date: Thursday, September 1, 2022 5:09:55 PM

ID# 08L40

From: Phadnis, Rajan <rphadnis@wm.com> **Sent:** Thursday, September 1, 2022 4:35 PM **To:** RCA Notification <rca@baaqmd.gov>

Cc: Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Perez, Enrique <pperez3@wm.com>; Erin Phillips <ephillips@baaqmd.gov>

Subject: KCRDF A1812-Addendum to RCA 08L39 for PG&E power outage events on 9.1.2022

I am attaching an Addendum to RCA notification form (RCA Number 08L39) for unplanned PG&E power outages on 9/1/2022, at Kirby Canyon Recycling and Disposal Facility-A1812.

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

From: RCA Notification < rca@baaqmd.gov>
Sent: Thursday, September 1, 2022 12:29 PM
To: Phadnis, Rajan < rphadnis@wm.com>

Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

Hello,

This RCA has been assigned to ID# 08L39

From: Phadnis, Rajan <<u>rphadnis@wm.com</u>>
Sent: Thursday, September 1, 2022 12:17 PM
To: RCA Notification <<u>rca@baaqmd.gov</u>>

Cc: Colline, Christian <<u>CColline@wm.com</u>>; Erin Phillips <<u>ephillips@baaqmd.gov</u>>; Azevedo, Becky <<u>Razevedo@wm.com</u>>; Perez, Enrique <<u>pperez3@wm.com</u>>; Phadnis, Rajan <<u>rphadnis@wm.com</u>>

Subject: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

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

I am attaching the RCA notification form for unplanned PG&E power outage on 9/1/2022, 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

September 1, 2022 (via email rca@baaqmd.gov)

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

Re: Addendum to Reportable Compliance Activity (RCA 08L39) 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 Addendum Reportable Compliance Activity (RCA) Form (RCA Number 08L39 was assigned) for temporary flare shutdown event caused by unplanned utility power interruption on September 1, 2022, at ~ 8:30 AM and ~12:50 PM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on September 1, 2022, at ~4:30 PM.

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

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

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

The power was restored on September 1, 2022, at \sim 10:15 AM and at \sim 1:50 PM and the GCCS was back online. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: Addendum RCA Form (RCA Number 08L39) KCRDF Facility A1812



COMPLIANCE & ENFORCEMENT DIVISION

ADDENDUM to RCA Number 08L39

Notification Form

Reportable Compliance Activity (RCA)

	See back of form for instructions →				
1. X BREAKDO	1. X BREAKDOWN RELIEF: District Use OnlyBREAKDOWN REFERENCE #:				
2. NA MONITOR E	EXCESS EMISSION or EXCURSION: <i>Dis</i>	trict Use Only RE	FERENCE#:		
3. NA MONITOR IS	S INOPERATIVE: District Use Only REF	ERENCE#:			
4. NA PRESSURE	RELIEF DEVICE (PRD): District Use O	nly PRD REFERE	NCE#:		
SITE INF	ORMATION AND DESCRIPTION INFORI	MATION (REQUIR	RED)		
Company	Kirby Canyon Recycling & Disposal Facility	Site #	A1812		
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1		
Reported by	R Phadnis	Phone #	510-875-9338		
Indicated Excess	-NA	Fax #	-		
Allowable Limit	-NA	Averaging Time	-		
Start Time/Date	9/1/2022 at ~ 8:30 AM and 9/1/2022~12:50 PM	Clear Time	9/1/2022 at ~ 10:15 AM and 9/1/2022 at ~ 1:50 PM		
Monitor/device type(s)	► CEM ► GLM ► Parame	etric PRD	► Non-monitor		
Monitor description(s)					
Parameter(s) exceeded or not functioning due to inoperation NO _x SO ₂ CO CO ₂ H ₂ S TRS NH ₃ CO ₂ Hydrocarbon Breakthrough (VOC) Wind Direction Steam Volter (describe) Power outage					
Unit(s) of Measurement	▶min/hr > 20%	►inches H ₂ O ► Other (describe)	— ▶mmHg		
pecause the GCCS was tempora The previous breakdown report Disposal Facility (KCRDF) bec	submitted on 9/1/2022 at ~ 4:30 PM by Kirby Cararily shut down due to the PG&E power outage. at (RCA 08L39) was submitted on 9/1/2022 at ~ 12: cause the GCCS was temporarily shut down due to otentially out of compliance with BAAQMD regulatory letter dated 9/1/2022.	:15 PM by Kirby Cany the PG&E power out	yon Recycling & age. During the PG&E		

District Use Only			
Received by	Date	Time	

- ✓ 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 <u>rca @baagmd.gov</u>
- ✓ 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.

7	Check	D	шл

- □ 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 <u>immediately upon</u> discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

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

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

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

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

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

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

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

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

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

From: RCA Notification
To: Phadnis, Rajan

Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

Date: Thursday, September 1, 2022 12:29:29 PM

Hello,

This RCA has been assigned to ID# 08L39

From: Phadnis, Rajan <rphadnis@wm.com> **Sent:** Thursday, September 1, 2022 12:17 PM **To:** RCA Notification <rca@baaqmd.gov>

Cc: Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Phadnis, Rajan <rphadnis@wm.com>

Subject: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

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

I am attaching the RCA notification form for unplanned PG&E power outage on 9/1/2022, 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.

From: RCA Notification
To: Phadnis, Rajan

Subject: [EXTERNAL] RE: KCRDF A1812-Addendum to RCA 08L39 for PG&E power outage events on 9.1.2022

Date: Thursday, September 1, 2022 5:09:55 PM

ID# 08L40

From: Phadnis, Rajan <rphadnis@wm.com> **Sent:** Thursday, September 1, 2022 4:35 PM **To:** RCA Notification <rca@baaqmd.gov>

Cc: Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Perez, Enrique <pperez3@wm.com>; Erin Phillips <ephillips@baaqmd.gov>

Subject: KCRDF A1812-Addendum to RCA 08L39 for PG&E power outage events on 9.1.2022

I am attaching an Addendum to RCA notification form (RCA Number 08L39) for unplanned PG&E power outages on 9/1/2022, at Kirby Canyon Recycling and Disposal Facility-A1812.

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

From: RCA Notification < rca@baaqmd.gov>
Sent: Thursday, September 1, 2022 12:29 PM
To: Phadnis, Rajan < rphadnis@wm.com>

Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

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Sent: Thursday, September 1, 2022 12:17 PM
To: RCA Notification <<u>rca@baaqmd.gov</u>>

Cc: Colline, Christian <<u>CColline@wm.com</u>>; Erin Phillips <<u>ephillips@baaqmd.gov</u>>; Azevedo, Becky <<u>Razevedo@wm.com</u>>; Perez, Enrique <<u>pperez3@wm.com</u>>; Phadnis, Rajan <<u>rphadnis@wm.com</u>>

Subject: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

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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

September 1, 2022 (via email rca@baaqmd.gov)

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

Re: Addendum to Reportable Compliance Activity (RCA 08L39) 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 Addendum Reportable Compliance Activity (RCA) Form (RCA Number 08L39 was assigned) for temporary flare shutdown event caused by unplanned utility power interruption on September 1, 2022, at ~ 8:30 AM and ~12:50 PM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on September 1, 2022, at ~4:30 PM.

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

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

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

The power was restored on September 1, 2022, at \sim 10:15 AM and at \sim 1:50 PM and the GCCS was back online. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: Addendum RCA Form (RCA Number 08L39) KCRDF Facility A1812



COMPLIANCE & ENFORCEMENT DIVISION

ADDENDUM to RCA Number 08L39

Notification Form

Reportable Compliance Activity (RCA)

	See back of form for instructions →				
1. X BREAKDO	1. X BREAKDOWN RELIEF: District Use OnlyBREAKDOWN REFERENCE #:				
2. NA MONITOR E	EXCESS EMISSION or EXCURSION: <i>Dis</i>	trict Use Only RE	FERENCE#:		
3. NA MONITOR IS	S INOPERATIVE: District Use Only REF	ERENCE#:			
4. NA PRESSURE	RELIEF DEVICE (PRD): District Use O	nly PRD REFERE	NCE#:		
SITE INF	ORMATION AND DESCRIPTION INFORI	MATION (REQUIR	RED)		
Company	Kirby Canyon Recycling & Disposal Facility	Site #	A1812		
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1		
Reported by	R Phadnis	Phone #	510-875-9338		
Indicated Excess	-NA	Fax #	-		
Allowable Limit	-NA	Averaging Time	-		
Start Time/Date	9/1/2022 at ~ 8:30 AM and 9/1/2022~12:50 PM	Clear Time	9/1/2022 at ~ 10:15 AM and 9/1/2022 at ~ 1:50 PM		
Monitor/device type(s)	► CEM ► GLM ► Parame	etric PRD	► Non-monitor		
Monitor description(s)					
Parameter(s) exceeded or not functioning due to inoperation NO _x SO ₂ CO CO ₂ H ₂ S TRS NH ₃ CO ₂ Hydrocarbon Breakthrough (VOC) Wind Direction Steam Volter (describe) Power outage					
Unit(s) of Measurement	▶min/hr > 20%	►inches H ₂ O ► Other (describe)	— ▶mmHg		
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District Use Only			
Received by	Date	Time	

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- ✓ 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 <u>rca @baagmd.gov</u>
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Detailed Instructions

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

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7	Check	D	шл

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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)

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

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

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

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

- ☐ Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
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When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

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- 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.
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- □ All PRD release reports must be reported by the following BAAQMD working day.

From: RCA Notification
To: Phadnis, Rajan

Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

Date: Thursday, September 1, 2022 12:29:29 PM

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This RCA has been assigned to ID# 08L39

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Cc: Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Phadnis, Rajan <rphadnis@wm.com>

Subject: KCRDF A1812-RCA for PG&E power outage on 9.1.2022

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

I am attaching the RCA notification form for unplanned PG&E power outage on 9/1/2022, 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

October 27, 2022

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

Re: Kirby Canyon Recycling & Disposal Facility

Facility Number A1812

Request for Limited Exemption (for construction activities) from Regulation 8, Rule 34 (Solid Waste Disposal Sites), Section 303 (Landfill Surface Requirements)

Dear Mr. Salalila:

This letter requests a limited exemption from the requirements of Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) during landfill construction activities to be conducted from November 3, 2022, through December 31, 2022, at the Kirby Canyon Recycling & Disposal Facility (KCRDF) Landfill in San Jose, California. This notification is submitted pursuant to Regulation 8, Rule 34, Section 118, "Limited Exemptions for Construction Activities." The work consists of installation of new landfill gas (LFG) extraction wells and piping to maintain compliance with Regulation 8, Rule 34, and is to be performed during the period of November 3, 2022, through December 31, 2022.

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

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

No significant interruption of the current site LFG extraction and control operations is anticipated due to the work. The construction crew will mobilize to the site on or around November 3, 2022. We anticipate construction activities to conclude by December 31, 2022.

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

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Michael L. Winter

District Engineer

CC: Loi Chau, BAAQMD

Michael L. With

Perry Ng, BAAQMD Enrique Perez, KCRDF

Bill Louis, WM

BAAQMD RULE 8-34-118 CONSTRUCTION PLAN

Kirby Canyon Recycling & Disposal Facility

LFG EXTRACTION WELLS AND PIPING CONSTRUCTION WORK

November 3, 2022, through December 31, 2022

INTRODUCTION

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

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

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

ACTIONS BEING TAKEN

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

AFFECTED LANDFILL AREAS

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

AFFECTED LFG COMPONENTS

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

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

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

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

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

REASONS FOR ACTIONS

The proposed construction work is intended to:

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

CONSTRUCTION SCHEDULE

The anticipated construction period will be between November 3, 2022, through December 31, 2022, and is summarized in the table below:

Table 1 - Preliminary Construction Schedule

Task	Project Duration
Mobilize crew, equipment, and materials to site	Week 1
Installation of wells, repair and installation of piping, excavation and backfilling	Up to 8 weeks
Clean-up and demobilize crew and materials	Week 1

AIR QUALITY MITIGATION MEASURES

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

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

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

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

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

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

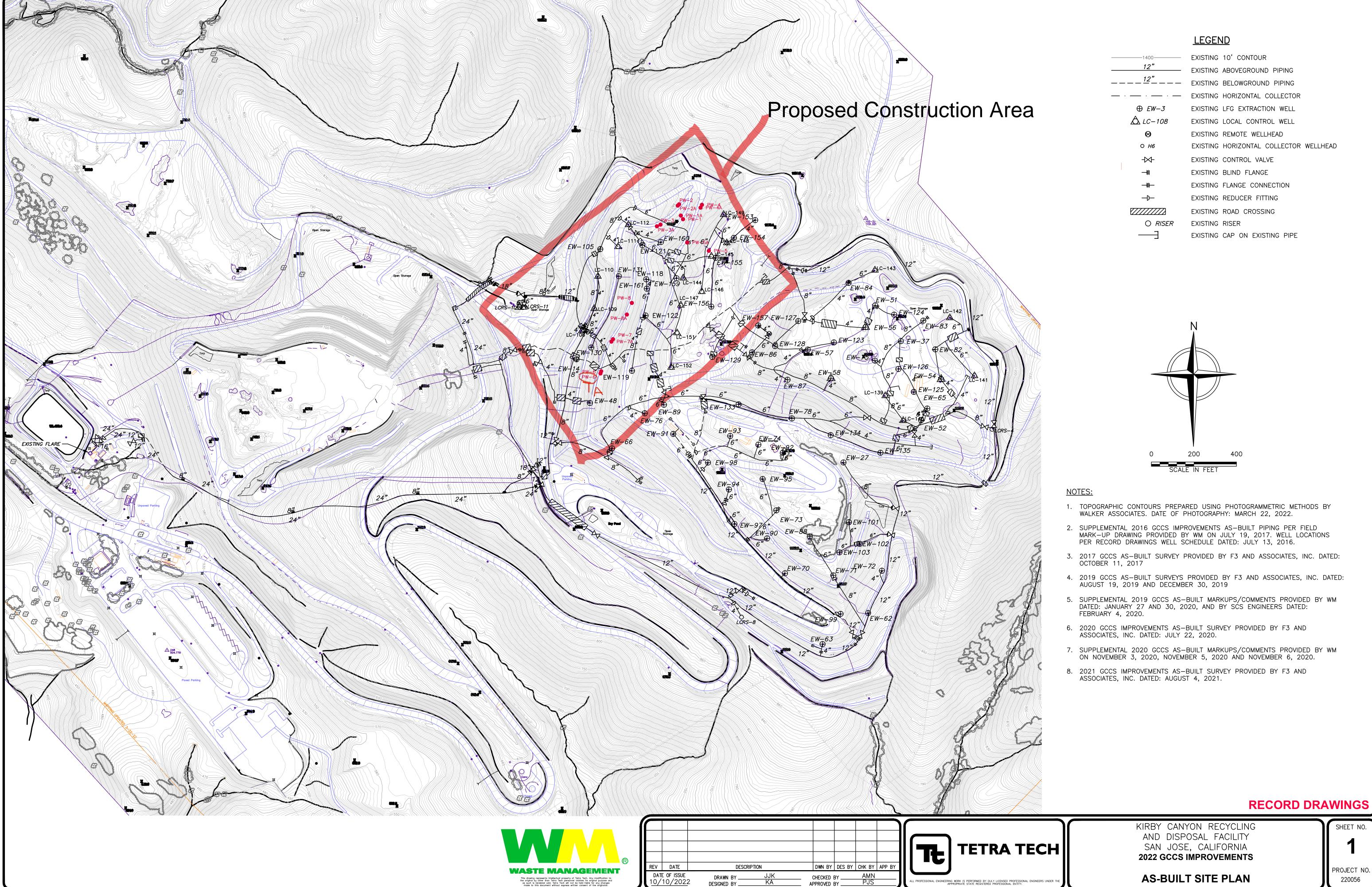
- Capping or blind flanging of all pipes and collector openings, which will remain sealed until time of connection to a vacuum source;
- Using isolation valves;
- Minimizing installation time for making each connection; and
- Minimizing the amount of open pipe during each installation, by using flange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

RECORDKEEPING

The following records will be retained during the project:

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

Attachments: Figure 1 – Gas Collection and Control System layout



DESIGNED BY __

APPROVED BY _

AS-BUILT SITE PLAN

220056



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

December 21, 2022

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

Re: Kirby Canyon Recycling & Disposal Facility

Facility Number A1812

Update to Previously Approved Request for Limited Exemption for construction

activities, submitted on October 27, 2022

Dear Mr. Salalila:

The Kirby Canyon Recycling & Disposal Facility (KCRDF) submitted a notification on October 27, 2022, for Limited Exemption (for construction activities) from Regulation 8, Rule 34 (Solid Waste Disposal Sites), for the new wells and piping installation and connection related construction activities. The KCRDF's Construction Plan was approved by BAAQMD on November 8, 2022.

KCRDF initiated the project in November 2022. However, the site has experienced delays in scheduling the second phase of the project. This delay requires adjustments to the construction schedule, and the project end date has been extended from December 31, 2022, to March 31, 2023. Attached is the revised construction plan with the revised project end date.

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

Sincerely,

Kirby Canyon Recycling and Disposal Facility

Michael L. Winter

District Engineer

CC: Perry Ng, BAAQMD

Michael L. White

Enrique Perez, KCRDF

Bill Louis, WM

BAAQMD RULE 8-34-118 CONSTRUCTION PLAN-UPDATE

Kirby Canyon Recycling & Disposal Facility

LFG EXTRACTION WELLS AND PIPING CONSTRUCTION WORK

November 3, 2022, through March 31, 2023

INTRODUCTION

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

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

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

ACTIONS BEING TAKEN

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

AFFECTED LANDFILL AREAS

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

AFFECTED LFG COMPONENTS

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

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

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

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

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

REASONS FOR ACTIONS

The proposed construction work is intended to:

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

CONSTRUCTION SCHEDULE

The anticipated construction period will be between November 3, 2022, through March 31, 2023, and is summarized in the table below:

Table 1 - Preliminary Construction Schedule

Task	Project Duration
Mobilize crew, equipment, and materials to site	Week 1
Installation of wells, repair and installation of piping, excavation, and backfilling	Up to 21 weeks
Clean-up and demobilize crew and materials	Week 1

AIR QUALITY MITIGATION MEASURES

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

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

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

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

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

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

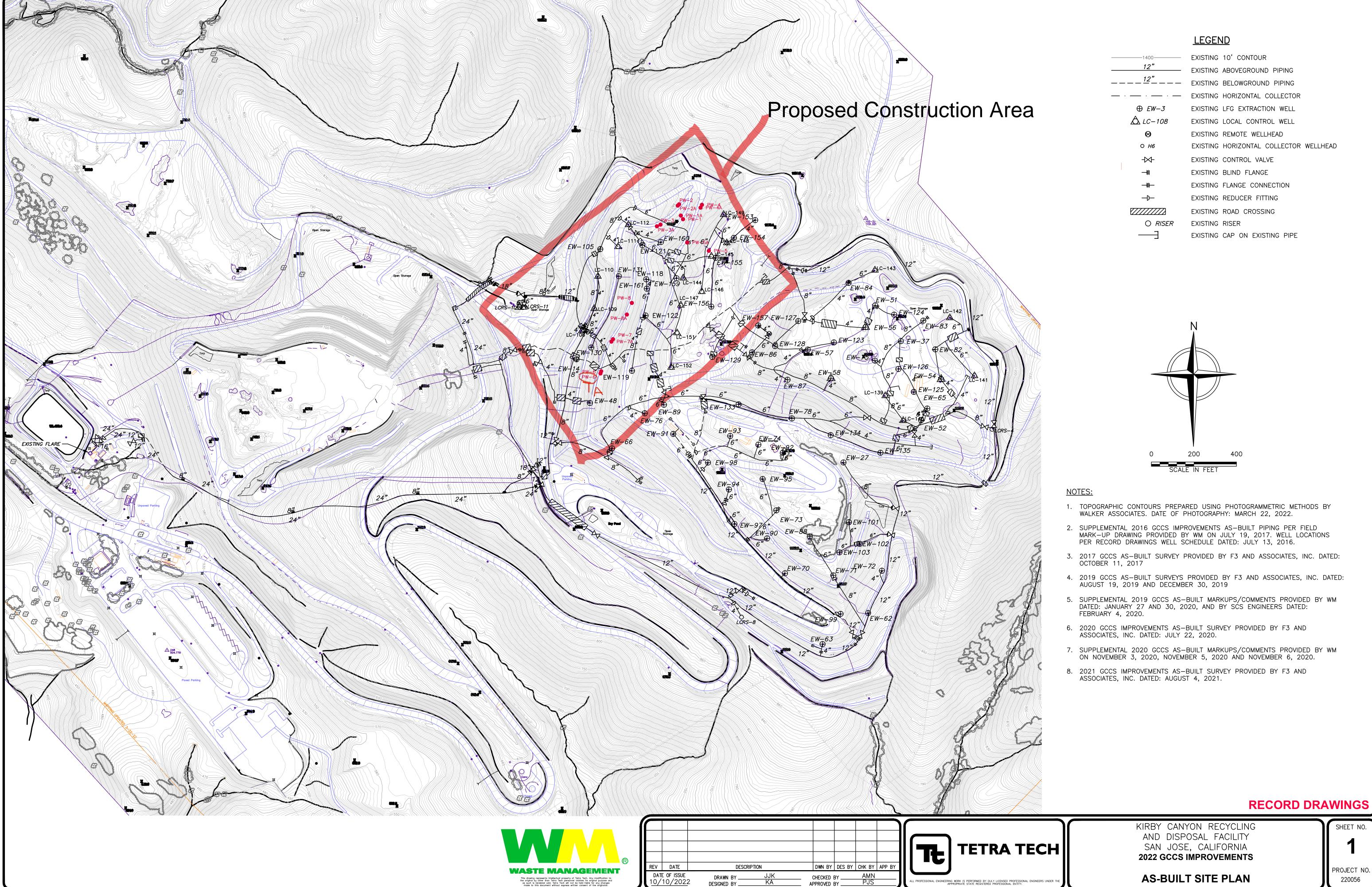
- Capping or blind flanging of all pipes and collector openings, which will remain sealed until time of connection to a vacuum source;
- Using isolation valves;
- Minimizing installation time for making each connection; and
- Minimizing the amount of open pipe during each installation, by using flange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

RECORDKEEPING

The following records will be retained during the project:

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

Attachments: Figure 1 – Gas Collection and Control System layout



DESIGNED BY __

APPROVED BY _

AS-BUILT SITE PLAN

220056

APPENDIX K WELLFIELD DEVIATION LOG

KIRBY CANYON RECYCLING & DISPOSAL FACILITY WELLFIELD DEVIATION REPORT

Reporting Period: From July 1 2022 through December 31, 2022

REPORT PREPARED BY: Rajan Phadnis UPDATED DATE: January 1, 2023 LFG MONITORING DEVICE: GEM

MODEL: 2000 DATE LAST CALIBRATED: DAILY

Well ID	Date and Time	СН₄	CO ₂	O ₂	Balance	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)	Comments	Duration of Exceedance As of the End of Reporting Period
KCYNLR08	8/29/2022 11:53	0.3	0.2	19.6	79.9	78.5	78.2	-34.3	-34.3	NSPS/EG CAI;Fully Open	
KCYNLR08	8/31/2022 13:59	0.2	0.5	19.8	79.5	94.0	94.7	-33.4	-33.4	NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	9/7/2022 7:38	1.3	2.7	19.6	76.4	70.1	69.9	-34.6	-34.6	NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	10/3/2022 11:14	1.6	11.8	17.6	69.0	76.3	76.5	-46.5	-46.5	NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	11/17/2022 14:37	0.2	2.6	19.9	77.3	100.0	100.4	0.0		NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	12/7/2022 11:32	4.6	3.3	18.4	73.7	59.8	60.2	-19.4	-19.4	NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	12/9/2022 9:17	42.0	29.7	2.8	25.5	47.0	47.0	-46.4	-47.0	NSPS/EG CAI;Fully Open;Inc. Flow/Vac.	102

Comments: LR08 had oxygen exceedance during the cell construction period. LR08 was repaired and exceedance was cleared within 120 days.

KCRDF Plant No. 1812 KCRDF July 1-Dec 31- 2022 SAR

APPENDIX L MONTHLY LANDFILL GAS FLOW RATES

MONTHLY LFG Input to Flare (A-12)

July 1-December 31, 2022

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA

KIND OAKTON KESTSENIS & BIST SOME		,						
Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	CH ₄ (%)*	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Total Heat Input (MMBTU)
July-22	744.00	26.87	717.13	1,619	44.3	69,596,967	30,854,563	31,256
August-22	744.00	3.03	740.97	1,596	44.3	70,972,415	31,464,343	31,873
September-22	720.00	2.70	717.30	1,585	44.3	68,213,592	30,241,268	30,634
October-22	744.00	3.80	740.20	1,640	44.3	72,838,709	32,291,731	32,712
November 2022 ²	721.00	45.07	675.93	1,524	44.3	64,001,270	28,373,811	28,743
December-22	744.00	12.03	731.97	1,640	44.3	72,001,935	31,920,762	32,336
July 1-December 31, 2022, Totals/Avg	4,417.00	93.50	4,323.50	1,601	44.3	417,624,888	185,146,477	187,553
January 1-December 31, 2022, Totals/Avg	8,760.00	146.80	8,613.20	1,734	45.0	898,034,299	404,280,887	409,537

NOTES:

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

CH₄= methane

KCRDF Plant No. 1812 KCRDF July 1-Dec 31- 2022 SAR

^{*}Methane content determined in 2022 is from February 25, 2021 and February 23, 2022 source test data.

²There were 721 hours in November 2023, due to Daylight Saving Time.

MONTHLY LFG Input to 1	MONTHLY LFG Input to Flare (A-12)										
KIRBY CANYON RECYC	LING & DISPOSAL FACI	LITY, San Jose, CA									
MONTHLY LFG Heat Inpu	ut: 2022										
Month	Monthly Total Heat	12-Month Total Heat									
WiOiitii	Input (MMBTU)	Input (MMBTU)									
January-22	39,313	508,913									
February-22	33,777	505,509									
March-22	42,390	503,147									
April-22	37,231	498,614									
May-22	36,314	490,473									
June-22	32,958	479,837									
July-22	31,256	464,193									
August-22	31,873	447,808									
September-22	30,634	436,256									
October-22	32,712	426,659									
November-22	28,743	415,973									
December-22	32,336	409,537									
MMBTU= million British the	ermal units										

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).

Heat Input Rate A-12 Flare

MONTH: July-22

7/2/2022 24.00 44.3 1,646 2,370,446 1,050,895 1,013.0 1,0 7/3/2022 24.00 44.3 1,639 2,360,774 1,046,607 1,013.0 1,0 7/4/2022 24.00 44.3 1,647 2,372,191 1,051,668 1,013.0 1,0 7/6/2022 24.00 44.3 1,610 2,318,834 1,028,013 1,013.0 1,0 7/6/2022 24.00 44.3 1,628 2,343,908 1,039,129 1,013.0 1,0 7/7/2022 20.87 44.3 1,666 2,085,812 924,707 1,013.0 1,0 7/8/2022 24.00 44.3 1,661 2,392,082 1,056,053 1,013.0 1,0 7/10/2022 24.00 44.3 1,666 2,398,833 1,063,486 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,398,833 1,063,479 1,013.0 1,0 7/12/2022 24.00 44.3 1,660 2,391,824 </th <th>Date</th> <th>Runtime (hours)</th> <th>CH₄ (%)*</th> <th>Average Flow (scfm)</th> <th>Total LFG Volume (scf)</th> <th>Total CH₄ Volume (scf)</th> <th>Heating Value of CH₄ (BTU/scf)</th> <th>Heat Input (MMBTU)/Day</th>	Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
7/3/2022 24.00 44.3 1,639 2,360,774 1,046,607 1,013.0 1,0 7/4/2022 24.00 44.3 1,647 2,372,191 1,051,668 1,013.0 1,0 7/5/2022 24.00 44.3 1,610 2,318,834 1,028,013 1,013.0 1,0 7/6/2022 24.00 44.3 1,628 2,343,908 1,039,129 1,013.0 1,0 7/7/2022 20.87 44.3 1,666 2,085,812 924,707 1,013.0 1,0 7/8/2022 24.00 44.3 1,666 2,392,082 1,060,486 1,013.0 1,0 7/9/2022 24.00 44.3 1,666 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/11/2022 24.00 44.3 1,630 2,351,783 1,042,621 1,013.0 1,0 7/11/2022 24.00 44.3 1,639 2,346,090 </td <td>7/1/2022</td> <td>24.00</td> <td>44.3</td> <td>1,672</td> <td>2,407,640</td> <td>1,067,384</td> <td>1,013.0</td> <td>1,081</td>	7/1/2022	24.00	44.3	1,672	2,407,640	1,067,384	1,013.0	1,081
7/4/2022 24.00 44.3 1,647 2,372,191 1,051,668 1,013.0 1,0 7/5/2022 24.00 44.3 1,610 2,318,834 1,028,013 1,013.0 1,0 7/6/2022 24.00 44.3 1,666 2,381,908 1,039,129 1,013.0 1,0 7/7/2022 20.87 44.3 1,666 2,085,812 924,707 1,013.0 3 7/8/2022 24.00 44.3 1,661 2,392,082 1,060,486 1,013.0 1,0 7/10/2022 24.00 44.3 1,666 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,398,833 1,043,621 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,391,124 1,059,618 1,013.0 1,0 7/13/2022 24.00 44.3 1,633 2,351,783 </td <td>7/2/2022</td> <td>24.00</td> <td>44.3</td> <td>1,646</td> <td>2,370,446</td> <td>1,050,895</td> <td>1,013.0</td> <td>1,065</td>	7/2/2022	24.00	44.3	1,646	2,370,446	1,050,895	1,013.0	1,065
7/5/2022 24.00 44.3 1,610 2,318,834 1,028,013 1,013.0 1,0 7/6/2022 24.00 44.3 1,628 2,343,908 1,039,129 1,013.0 1,0 7/7/2022 20.87 44.3 1,666 2,085,812 924,707 1,013.0 1,0 7/8/2022 24.00 44.3 1,661 2,392,082 1,060,486 1,013.0 1,0 7/9/2022 24.00 44.3 1,664 2,382,082 1,056,053 1,013.0 1,0 7/10/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/13/2022 24.00 44.3 1,633 2,351,783 1,042,621 1,013.0 1,0 7/14/2022 24.00 44.3 1,638 2,358,425 1,045,565 1,013.0 1,0 7/15/2022 24.00 44.3 1,639 2,354,754	7/3/2022	24.00	44.3	1,639	2,360,774	1,046,607	1,013.0	1,060
7/6/2022 24.00 44.3 1,628 2,343,908 1,039,129 1,013.0 1,0 7/7/2022 20.87 44.3 1,666 2,085,812 924,707 1,013.0 93 7/8/2022 24.00 44.3 1,661 2,392,082 1,060,486 1,013.0 1,0 7/9/2022 24.00 44.3 1,664 2,382,082 1,056,053 1,013.0 1,0 7/11/2022 24.00 44.3 1,666 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,399,124 1,059,618 1,013.0 1,0 7/13/2022 24.00 44.3 1,633 2,351,783 1,042,621 1,013.0 1,0 7/14/2022 24.00 44.3 1,638 2,358,425 1,045,565 1,013.0 1,0 7/15/2022 24.00 44.3 1,629 2,346,090 1,040,097 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754	7/4/2022	24.00	44.3	1,647	2,372,191	1,051,668	1,013.0	1,065
7/7/2022 20.87 44.3 1,666 2,085,812 924,707 1,013.0 93 7/8/2022 24.00 44.3 1,661 2,392,082 1,060,486 1,013.0 1,0 7/9/2022 24.00 44.3 1,654 2,382,082 1,056,053 1,013.0 1,0 7/10/2022 24.00 44.3 1,666 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/12/2022 24.00 44.3 1,638 2,358,425 1,045,665 1,013.0 1,0 7/14/2022 24.00 44.3 1,638 2,358,425 1,040,097 1,013.0 1,0 7/14/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/18/2022 24.00 44.3 1,639 2,359,85	7/5/2022	24.00	44.3	1,610	2,318,834	1,028,013	1,013.0	1,041
7/8/2022 24.00 44.3 1,661 2,392,082 1,060,486 1,013.0 1,0 7/9/2022 24.00 44.3 1,654 2,382,082 1,056,053 1,013.0 1,0 7/10/2022 24.00 44.3 1,666 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/12/2022 24.00 44.3 1,630 2,351,783 1,042,621 1,013.0 1,0 7/13/2022 24.00 44.3 1,638 2,358,425 1,045,565 1,013.0 1,0 7/14/2022 24.00 44.3 1,629 2,346,090 1,040,097 1,013.0 1,0 7/16/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,639 2,354,754 1,043,938 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,65	7/6/2022	24.00	44.3	1,628	2,343,908	1,039,129	1,013.0	1,053
7/9/2022 24.00 44.3 1,654 2,382,082 1,056,053 1,013.0 1,0 7/10/2022 24.00 44.3 1,666 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/12/2022 24.00 44.3 1,633 2,351,783 1,042,621 1,013.0 1,0 7/13/2022 24.00 44.3 1,638 2,358,425 1,045,565 1,013.0 1,0 7/14/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/15/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/18/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 24.00 44.3 1,693 2,4	7/7/2022	20.87	44.3	1,666	2,085,812	924,707	1,013.0	937
7/10/2022 24.00 44.3 1,666 2,398,833 1,063,479 1,013.0 1,0 7/11/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/12/2022 24.00 44.3 1,633 2,351,783 1,042,621 1,013.0 1,0 7/14/2022 24.00 44.3 1,638 2,354,690 1,040,097 1,013.0 1,0 7/14/2022 24.00 44.3 1,628 2,346,090 1,040,097 1,013.0 1,0 7/15/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 1,0 7/19/2022 24.00 44.3 1,667 2,40	7/8/2022	24.00	44.3	1,661	2,392,082	1,060,486	1,013.0	1,074
7/11/2022 24.00 44.3 1,660 2,390,124 1,059,618 1,013.0 1,0 7/12/2022 24.00 44.3 1,633 2,351,783 1,042,621 1,013.0 1,0 7/13/2022 24.00 44.3 1,638 2,358,425 1,045,565 1,013.0 1,0 7/14/2022 24.00 44.3 1,629 2,346,090 1,040,097 1,013.0 1,0 7/15/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 7/2 7/19/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,40	7/9/2022	24.00	44.3	1,654	2,382,082	1,056,053	1,013.0	1,070
7/12/2022 24.00 44.3 1,633 2,351,783 1,042,621 1,013.0 1,0 7/13/2022 24.00 44.3 1,638 2,358,425 1,045,565 1,013.0 1,0 7/14/2022 24.00 44.3 1,629 2,346,090 1,040,097 1,013.0 1,0 7/15/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 7/ 7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 15.13 44.3 1,667 2,400	7/10/2022	24.00	44.3	1,666	2,398,833	1,063,479	1,013.0	1,077
7/13/2022 24.00 44.3 1,638 2,358,425 1,045,565 1,013.0 1,0 7/14/2022 24.00 44.3 1,629 2,346,090 1,040,097 1,013.0 1,0 7/15/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 72 7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 72 7/19/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/22/2022 15.13 44.3 1,605 1,457,	7/11/2022	24.00	44.3	1,660	2,390,124	1,059,618	1,013.0	1,073
7/14/2022 24.00 44.3 1,629 2,346,090 1,040,097 1,013.0 1,0 7/15/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 7/2 7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,667 2,400,307 1,064,133 1,013.0 7/2 7/22/2022 15.13 44.3 1,665 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,551 2,233,6	7/12/2022	24.00	44.3	1,633	2,351,783	1,042,621	1,013.0	1,056
7/15/2022 24.00 44.3 1,626 2,341,624 1,038,117 1,013.0 1,0 7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 7/2 7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/22/2022 15.13 44.3 1,605 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,555 2,268,190 1,005,561 1,013.0 1,0 7/26/2022 24.00 44.3 1,554 2,237,2	7/13/2022	24.00	44.3	1,638	2,358,425	1,045,565	1,013.0	1,059
7/16/2022 24.00 44.3 1,635 2,354,754 1,043,938 1,013.0 1,0 7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 7/2 7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,663 1,457,273 646,056 1,013.0 7/2 7/22/2022 15.13 44.3 1,505 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,555 2,268,190 1,005,561 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 </td <td>7/14/2022</td> <td>24.00</td> <td>44.3</td> <td>1,629</td> <td>2,346,090</td> <td>1,040,097</td> <td>1,013.0</td> <td>1,054</td>	7/14/2022	24.00	44.3	1,629	2,346,090	1,040,097	1,013.0	1,054
7/17/2022 24.00 44.3 1,639 2,359,857 1,046,200 1,013.0 1,0 7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 7/2 7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,643 1,662,493 737,036 1,013.0 7/2 7/22/2022 15.13 44.3 1,605 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,575 2,268,190 1,005,561 1,013.0 1,0 7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/27/2022 24.00 44.3 1,548 2,228,663 <td>7/15/2022</td> <td>24.00</td> <td>44.3</td> <td>1,626</td> <td>2,341,624</td> <td>1,038,117</td> <td>1,013.0</td> <td>1,052</td>	7/15/2022	24.00	44.3	1,626	2,341,624	1,038,117	1,013.0	1,052
7/18/2022 16.27 44.3 1,699 1,658,424 735,232 1,013.0 74 7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,643 1,662,493 737,036 1,013.0 74 7/22/2022 15.13 44.3 1,605 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,575 2,268,190 1,005,561 1,013.0 1,0 7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/28/2022 24.00 44.3 1,530 2,203,032	7/16/2022	24.00	44.3	1,635	2,354,754	1,043,938	1,013.0	1,058
7/19/2022 24.00 44.3 1,693 2,437,942 1,080,818 1,013.0 1,0 7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,643 1,662,493 737,036 1,013.0 7/2 7/22/2022 15.13 44.3 1,605 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,575 2,268,190 1,005,561 1,013.0 1,0 7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/28/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 96 7/29/2022 24.00 44.3 1,539 2,215,576	7/17/2022	24.00	44.3	1,639	2,359,857	1,046,200	1,013.0	1,060
7/20/2022 24.00 44.3 1,667 2,400,307 1,064,133 1,013.0 1,0 7/21/2022 16.87 44.3 1,643 1,662,493 737,036 1,013.0 72 7/22/2022 15.13 44.3 1,605 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,575 2,268,190 1,005,561 1,013.0 1,0 7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 96 7/28/2022 24.00 44.3 1,539 2,203,032 976,675 1,013.0 96 7/30/2022 24.00 44.3 1,545 2,224,210	7/18/2022	16.27	44.3	1,699	1,658,424	735,232	1,013.0	745
7/21/2022 16.87 44.3 1,643 1,662,493 737,036 1,013.0 72 7/22/2022 15.13 44.3 1,605 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,575 2,268,190 1,005,561 1,013.0 1,0 7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 96 7/28/2022 24.00 44.3 1,539 2,203,032 976,675 1,013.0 96 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/31/2022 24.00 44.3 1,545 2,224,210	7/19/2022	24.00	44.3	1,693	2,437,942	1,080,818	1,013.0	1,095
7/22/2022 15.13 44.3 1,605 1,457,273 646,056 1,013.0 65 7/23/2022 24.00 44.3 1,575 2,268,190 1,005,561 1,013.0 1,0 7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 98 7/28/2022 24.00 44.3 1,539 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/31/2022 24.00 44.3 1,545 2,224,210	7/20/2022	24.00	44.3	1,667	2,400,307	1,064,133	1,013.0	1,078
7/23/2022 24.00 44.3 1,575 2,268,190 1,005,561 1,013.0 1,0 7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 98 7/28/2022 24.00 44.3 1,530 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/31/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/31/2022 24.00 44.3 1,542 2,220,587	7/21/2022	16.87	44.3	1,643	1,662,493	737,036	1,013.0	747
7/24/2022 24.00 44.3 1,551 2,233,632 990,241 1,013.0 1,0 7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 99 7/28/2022 24.00 44.3 1,530 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,539 2,215,576 982,236 1,013.0 99 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 99 7/31/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 99 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,7	7/22/2022	15.13	44.3	1,605	1,457,273	646,056	1,013.0	654
7/25/2022 24.00 44.3 1,554 2,237,292 991,863 1,013.0 1,0 7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 99 7/28/2022 24.00 44.3 1,530 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,539 2,215,576 982,236 1,013.0 99 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 99 7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 99 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,7	7/23/2022	24.00	44.3	1,575	2,268,190	1,005,561	1,013.0	1,019
7/26/2022 24.00 44.3 1,548 2,228,663 988,038 1,013.0 1,0 7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 99 7/28/2022 24.00 44.3 1,530 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,539 2,215,576 982,236 1,013.0 99 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 99 7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 99 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,7	7/24/2022	24.00	44.3	1,551	2,233,632	990,241	1,013.0	1,003
7/27/2022 24.00 44.3 1,538 2,214,087 981,576 1,013.0 96 7/28/2022 24.00 44.3 1,530 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,539 2,215,576 982,236 1,013.0 99 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 99 7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 99 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,7	7/25/2022	24.00	44.3	1,554	2,237,292	991,863	1,013.0	1,005
7/28/2022 24.00 44.3 1,530 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,539 2,215,576 982,236 1,013.0 98 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 98 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,7	7/26/2022	24.00	44.3	1,548	2,228,663	988,038	1,013.0	1,001
7/28/2022 24.00 44.3 1,530 2,203,032 976,675 1,013.0 98 7/29/2022 24.00 44.3 1,539 2,215,576 982,236 1,013.0 98 7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 98 7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 98 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,7	7/27/2022	24.00	44.3	1,538	2,214,087	981,576	1,013.0	994
7/30/2022 24.00 44.3 1,545 2,224,210 986,063 1,013.0 99 7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 99 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,33	7/28/2022	24.00	44.3	1,530		976,675	1,013.0	989
7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 99 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,33	7/29/2022	24.00	44.3	1,539	2,215,576	982,236	1,013.0	995
7/31/2022 24.00 44.3 1,542 2,220,587 984,457 1,013.0 99 Totals/ Average: 717.13 44.3 1,619 69,596,967 30,854,563 1,013.0 31,33	7/30/2022	24.00	44.3	1,545	2,224,210	986,063	1,013.0	999
	7/31/2022	24.00	44.3	1,542	2,220,587	984,457		997
Maximum 1.0	Totals/ Average:	717.13	44.3	1,619	69,596,967	30,854,563	1,013.0	31,256
							Maximum	1,095

NOTES:

The daily heat input rate for the A-12 Flare shall not exceed 2,980 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

CH₄= methane

^{*}Starting April 2022, Methane content determined from the February 23, 2022, A-12 Source Test is used.

Heat Input Rate A-12 Flare

MONTH: August-22

8/1/2022 8/2/2022 8/3/2022 8/4/2022 8/5/2022 8/6/2022 8/7/2022 8/8/2022 8/9/2022 8/10/2022 8/11/2022	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,591 1,622 1,659 1,668 1,660 1,661	2,290,657 2,336,251 2,389,086 2,401,595	1,015,522 1,035,735 1,059,158	1,013.0 1,013.0 1,013.0	1,029 1,049
8/3/2022 8/4/2022 8/5/2022 8/6/2022 8/7/2022 8/8/2022 8/9/2022 8/10/2022 8/11/2022	24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3	1,659 1,668 1,660	2,389,086 2,401,595	1,059,158		<u> </u>
8/4/2022 8/5/2022 8/6/2022 8/7/2022 8/8/2022 8/9/2022 8/10/2022 8/11/2022	24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3	1,668 1,660	2,401,595		1 013 0	
8/5/2022 8/6/2022 8/7/2022 8/8/2022 8/9/2022 8/10/2022 8/11/2022	24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3	1,660		1 (1,010.0	1,073
8/6/2022 8/7/2022 8/8/2022 8/9/2022 8/10/2022 8/11/2022	24.00 24.00 24.00 24.00	44.3 44.3		0 000 074	1,064,704	1,013.0	1,079
8/7/2022 8/8/2022 8/9/2022 8/10/2022 8/11/2022	24.00 24.00 24.00	44.3	1,661	2,389,874	1,059,508	1,013.0	1,073
8/8/2022 8/9/2022 8/10/2022 8/11/2022	24.00 24.00		,	2,391,930	1,060,419	1,013.0	1,074
8/9/2022 8/10/2022 8/11/2022	24.00	112	1,654	2,381,963	1,056,000	1,013.0	1,070
8/10/2022 8/11/2022		44.J	1,644	2,367,267	1,049,485	1,013.0	1,063
8/11/2022	24 00	44.3	1,643	2,365,283	1,048,606	1,013.0	1,062
	27.00	44.3	1,637	2,356,561	1,044,739	1,013.0	1,058
01101000	24.00	44.3	1,627	2,342,795	1,038,636	1,013.0	1,052
8/12/2022	24.00	44.3	1,624	2,338,863	1,036,893	1,013.0	1,050
8/13/2022	24.00	44.3	1,623	2,337,563	1,036,316	1,013.0	1,050
8/14/2022	24.00	44.3	1,619	2,330,803	1,033,320	1,013.0	1,047
8/15/2022	21.53	44.3	1,592	2,057,398	912,110	1,013.0	924
8/16/2022	24.00	44.3	1,569	2,259,616	1,001,760	1,013.0	1,015
8/17/2022	24.00	44.3	1,553	2,236,724	991,611	1,013.0	1,005
8/18/2022	24.00	44.3	1,555	2,238,712	992,493	1,013.0	1,005
8/19/2022	24.00	44.3	1,559	2,244,451	995,037	1,013.0	1,008
8/20/2022	24.00	44.3	1,544	2,222,860	985,465	1,013.0	998
8/21/2022	24.00	44.3	1,548	2,228,562	987,993	1,013.0	1,001
8/22/2022	24.00	44.3	1,578	2,272,592	1,007,513	1,013.0	1,021
8/23/2022	24.00	44.3	1,588	2,287,222	1,013,999	1,013.0	1,027
8/24/2022	24.00	44.3	1,563	2,250,022	997,507	1,013.0	1,010
8/25/2022	23.43	44.3	1,568	2,204,934	977,518	1,013.0	990
8/26/2022	24.00	44.3	1,568	2,258,220	1,001,141	1,013.0	1,014
8/27/2022	24.00	44.3	1,557	2,242,132	994,009	1,013.0	1,007
8/28/2022	24.00	44.3	1,549	2,230,596	988,895	1,013.0	1,002
8/29/2022	24.00	44.3	1,556	2,240,846	993,439	1,013.0	1,006
8/30/2022	24.00	44.3	1,557	2,241,372	993,672	1,013.0	1,007
8/31/2022		44.3	1,553	2,235,665	991,142		
Totals/ Average:	24.00		1,000	2,200,000		1,013.0	1,004
	24.00 740.97	44.3	1,596	70,972,415	31,464,343	1,013.0 1,013.0	1,004 31,873

NOTES:

The daily heat input rate for the A-12 Flare shall not exceed 2,980 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

CH₄= methane

^{*}Starting April 2022, Methane content determined from the February 23, 2022, A-12 Source Test is used.

Heat Input Rate A-12 Flare

MONTH: September-22

24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,556 1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614 1,614 1,601 1,600 1,588 1,585 1,598 1,605 1,605 1,585	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715 2,323,475 2,305,805 2,304,206 2,286,108 2,282,904 2,300,431 2,310,676 68,213,592	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,621 1,030,071 1,022,237 1,021,528 1,013,505 1,012,084 1,019,855 1,024,397 30,241,268	1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037 1,044 1,043 1,036 1,035 1,027 1,025 1,033 1,038 30,634
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614 1,614 1,601 1,600 1,588 1,585 1,598	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715 2,323,475 2,305,805 2,304,206 2,286,108 2,282,904 2,300,431	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,621 1,030,071 1,022,237 1,021,528 1,013,505 1,012,084 1,019,855	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037 1,044 1,043 1,036 1,035 1,027 1,025
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614 1,614 1,601 1,600 1,588 1,585	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715 2,323,475 2,305,805 2,304,206 2,286,108 2,282,904	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,071 1,022,237 1,021,528 1,013,505 1,012,084	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037 1,044 1,043 1,036 1,035 1,027
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614 1,614 1,601 1,600 1,588	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715 2,323,475 2,305,805 2,304,206 2,286,108	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,621 1,030,071 1,022,237 1,021,528 1,013,505	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037 1,044 1,043 1,036 1,035
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614 1,614 1,601 1,600	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715 2,323,475 2,305,805 2,304,206	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,621 1,030,071 1,022,237 1,021,528	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037 1,044 1,043
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614 1,614 1,601	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715 2,323,475 2,305,805	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,621 1,030,071 1,022,237	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037 1,044 1,043
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715 2,323,475	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,621 1,030,071	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037 1,044
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604 1,614	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252 2,324,715	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765 1,030,621	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556 1,604	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994 2,309,252	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061 1,023,765	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006 1,037
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515 1,556	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533 2,239,994	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143 993,061	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980 1,006
24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526 1,515	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614 2,181,533	993,329 989,824 985,175 985,971 981,069 972,052 974,273 967,143	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987 980
24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523 1,526	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606 2,197,614	993,329 989,824 985,175 985,971 981,069 972,052 974,273	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985 987
24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537 1,523	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944 2,192,606	993,329 989,824 985,175 985,971 981,069 972,052	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994 985
24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3	1,550 1,543 1,544 1,537	2,240,598 2,232,693 2,222,205 2,224,002 2,212,944	993,329 989,824 985,175 985,971 981,069	1,013.0 1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999 994
24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3	1,550 1,543 1,544	2,240,598 2,232,693 2,222,205 2,224,002	993,329 989,824 985,175 985,971	1,013.0 1,013.0 1,013.0 1,013.0	1,006 1,003 998 999
24.00 24.00 24.00	44.3 44.3 44.3	1,550 1,543	2,240,598 2,232,693 2,222,205	993,329 989,824 985,175	1,013.0 1,013.0 1,013.0	1,006 1,003 998
24.00 24.00	44.3 44.3	1,550	2,240,598 2,232,693	993,329 989,824	1,013.0 1,013.0	1,006 1,003
24.00	44.3	·	2,240,598	993,329	1,013.0	1,006
		1,556			<u> </u>	
24.00	11.0			1,001,100	1 1,010.0	
	44.3	1,573	2,264,983	1,004,139	1,013.0	1,017
24.00	44.3	1,584	2,280,996	1,011,239	1,013.0	1,024
24.00	44.3	1,569	2,259,640	1,001,771	1,013.0	1,015
24.00	44.3	1,609	2,317,217	1,027,296	1,013.0	1,041
24.00	44.3	1,647	2,371,370	1,051,304	1,013.0	1,065
24.00	44.3	1,636	2,355,416	1,044,231	1,013.0	1,058
24.00	44.3	1,622	2,335,981	1,035,615	1,013.0	1,049
24.00	44.3	1,617	2,328,588	1,032,338	1,013.0	1,046
24.00	44.3	1,617	2,328,554	1,032,323	1,013.0	1,046
24.00	44.3	1,625	2,340,065	1,037,426	1,013.0	1,051
24.00	44.3	1,606	2,313,121	1,025,481	1,013.0	1,039
21.30	44.3	1,585	2,025,900	898,146	1,013.0	910
ıntime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH₄ Volume (scf)	Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Da
	21.30 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	21.30	21.30	ntime (nours) CH4 (%) (scfm) Volume (scf) 21.30 44.3 1,585 2,025,900 24.00 44.3 1,606 2,313,121 24.00 44.3 1,625 2,340,065 24.00 44.3 1,617 2,328,554 24.00 44.3 1,617 2,328,588 24.00 44.3 1,622 2,335,981 24.00 44.3 1,636 2,355,416 24.00 44.3 1,647 2,371,370 24.00 44.3 1,609 2,317,217 24.00 44.3 1,569 2,259,640	Intime (nours) CH4 (%) (scfm) Volume (scf) Volume (scf) 21.30 44.3 1,585 2,025,900 898,146 24.00 44.3 1,606 2,313,121 1,025,481 24.00 44.3 1,625 2,340,065 1,037,426 24.00 44.3 1,617 2,328,554 1,032,323 24.00 44.3 1,617 2,328,588 1,032,338 24.00 44.3 1,622 2,335,981 1,035,615 24.00 44.3 1,636 2,355,416 1,044,231 24.00 44.3 1,647 2,371,370 1,051,304 24.00 44.3 1,609 2,317,217 1,027,296 24.00 44.3 1,569 2,259,640 1,001,771	Note Note

NOTES:

*Starting April 2022, Methane content determined from the February 23, 2022, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 2,980 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 CH₄= methane

Heat Input Rate A-12 Flare

MONTH: October-22

10/1/2022 10/2/2022 10/3/2022 10/4/2022 10/5/2022 10/6/2022 10/7/2022 10/8/2022 10/9/2022 10/10/2022 10/11/2022 10/12/2022	20.77 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3 44.3 44.3	1,601 1,586 1,640 1,624 1,640 1,656	1,995,054 2,283,733 2,361,727 2,338,577 2,362,021	884,471 1,012,452 1,047,029 1,036,766	1,013.0 1,013.0 1,013.0	896 1,026
10/3/2022 10/4/2022 10/5/2022 10/6/2022 10/7/2022 10/8/2022 10/9/2022 10/10/2022 10/11/2022	24.00 24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3 44.3	1,640 1,624 1,640 1,656	2,361,727 2,338,577	1,047,029	1,013.0	
10/4/2022 10/5/2022 10/6/2022 10/7/2022 10/8/2022 10/9/2022 10/10/2022 10/11/2022	24.00 24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3 44.3	1,624 1,640 1,656	2,361,727 2,338,577	1,047,029	1,013.0	1.061
10/5/2022 10/6/2022 10/7/2022 10/8/2022 10/9/2022 10/10/2022 10/11/2022	24.00 24.00 24.00 24.00 24.00	44.3 44.3 44.3	1,640 1,656		1 036 766		1,061
10/6/2022 10/7/2022 10/8/2022 10/9/2022 10/10/2022 10/11/2022	24.00 24.00 24.00 24.00	44.3 44.3	1,656	2,362,021	1,000,100	1,013.0	1,050
10/7/2022 10/8/2022 10/9/2022 10/10/2022 10/11/2022	24.00 24.00 24.00	44.3	, ,		1,047,159	1,013.0	1,061
10/8/2022 10/9/2022 10/10/2022 10/11/2022	24.00 24.00			2,384,312	1,057,042	1,013.0	1,071
10/9/2022 10/10/2022 10/11/2022	24.00	11 3	1,651	2,377,153	1,053,868	1,013.0	1,068
10/10/2022 10/11/2022		44.5	1,649	2,374,001	1,052,471	1,013.0	1,066
10/11/2022	24.00	44.3	1,635	2,354,278	1,043,727	1,013.0	1,057
		44.3	1,641	2,363,328	1,047,739	1,013.0	1,061
10/12/2022	24.00	44.3	1,634	2,353,448	1,043,359	1,013.0	1,057
	23.43	44.3	1,639	2,304,494	1,021,656	1,013.0	1,035
10/13/2022	24.00	44.3	1,638	2,358,725	1,045,698	1,013.0	1,059
10/14/2022	24.00	44.3	1,650	2,375,800	1,053,268	1,013.0	1,067
10/15/2022	24.00	44.3	1,629	2,346,361	1,040,217	1,013.0	1,054
10/16/2022	24.00	44.3	1,640	2,361,397	1,046,883	1,013.0	1,060
10/17/2022	24.00	44.3	1,647	2,371,850	1,051,517	1,013.0	1,065
10/18/2022	24.00	44.3	1,652	2,379,071	1,054,718	1,013.0	1,068
10/19/2022	24.00	44.3	1,677	2,415,449	1,070,846	1,013.0	1,085
10/20/2022	24.00	44.3	1,679	2,418,161	1,072,048	1,013.0	1,086
10/21/2022	24.00	44.3	1,649	2,374,240	1,052,577	1,013.0	1,066
10/22/2022	24.00	44.3	1,641	2,362,731	1,047,474	1,013.0	1,061
10/23/2022	24.00	44.3	1,630	2,347,312	1,040,639	1,013.0	1,054
10/24/2022	24.00	44.3	1,643	2,365,918	1,048,887	1,013.0	1,063
10/25/2022	24.00	44.3	1,650	2,376,521	1,053,588	1,013.0	1,067
10/26/2022	24.00	44.3	1,637	2,357,729	1,045,257	1,013.0	1,059
10/27/2022	24.00	44.3	1,640	2,361,088	1,046,746	1,013.0	1,060
10/28/2022	24.00	44.3	1,631	2,348,318	1,041,085	1,013.0	1,055
10/29/2022	24.00	44.3	1,636	2,356,307	1,044,626	1,013.0	1,058
10/30/2022	24.00	44.3	1,642	2,364,216	1,048,133	1,013.0	1,062
10/31/2022	24.00	44.3	1,629	2,345,389	1,039,786	1,013.0	1,053
Totals/ Average:		44.3	4 640	72,838,709	32,291,731		
	740.20	44.3	1,640	12,030,109	32,231,731	1,013.0	32,712 1,086

NOTES:

The daily heat input rate for the A-12 Flare shall not exceed 2,980 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

CH₄= methane

^{*}Starting April 2022, Methane content determined from the February 23, 2022, A-12 Source Test is used.

Heat Input Rate A-12 Flare

MONTH: November-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
11/1/2022	24.00	44.3	1,623	2,337,431	1,036,258	1,013.0	1,050
11/2/2022	24.00	44.3	1,632	2,349,467	1,041,594	1,013.0	1,055
11/3/2022	24.00	44.3	1,628	2,344,951	1,039,592	1,013.0	1,053
11/4/2022	24.00	44.3	1,615	2,325,377	1,030,914	1,013.0	1,044
11/5/2022	24.00	44.3	1,605	2,311,588	1,024,801	1,013.0	1,038
11/6/2022	25.00	44.3	1,596	2,393,582	1,061,151	1,013.0	1,075
11/7/2022	24.00	44.3	1,580	2,275,497	1,008,801	1,013.0	1,022
11/8/2022	24.00	44.3	1,566	2,255,517	999,943	1,013.0	1,013
11/9/2022	24.00	44.3	1,564	2,252,500	998,605	1,013.0	1,012
11/10/2022	24.00	44.3	1,583	2,279,794	1,010,706	1,013.0	1,024
11/11/2022	24.00	44.3	1,584	2,280,764	1,011,136	1,013.0	1,024
11/12/2022	24.00	44.3	1,574	2,266,154	1,004,659	1,013.0	1,018
11/13/2022	24.00	44.3	1,572	2,263,172	1,003,337	1,013.0	1,016
11/14/2022	24.00	44.3	1,572	2,264,323	1,003,847	1,013.0	1,017
11/15/2022	24.00	44.3	1,569	2,258,852	1,001,421	1,013.0	1,014
11/16/2022	24.00	44.3	1,576	2,269,143	1,005,984	1,013.0	1,019
11/17/2022	24.00	44.3	1,575	2,268,712	1,005,793	1,013.0	1,019
11/18/2022	24.00	44.3	1,569	2,258,910	1,001,447	1,013.0	1,014
11/19/2022	24.00	44.3	1,564	2,252,031	998,397	1,013.0	1,011
11/20/2022	24.00	44.3	1,567	2,256,110	1,000,206	1,013.0	1,013
11/21/2022	24.00	44.3	1,564	2,252,372	998,549	1,013.0	1,012
11/22/2022	24.00	44.3	1,561	2,247,869	996,552	1,013.0	1,010
11/23/2022	24.00	44.3	1,560	2,245,893	995,676	1,013.0	1,009
11/24/2022	24.00	44.3	1,562	2,249,564	997,304	1,013.0	1,010
11/25/2022	24.00	44.3	1,567	2,256,583	1,000,415	1,013.0	1,013
11/26/2022	24.00	44.3	1,562	2,248,615	996,883	1,013.0	1,010
11/27/2022	24.00	44.3	1,557	2,241,709	993,821	1,013.0	1,007
11/28/2022	24.00	44.3	1,545	2,224,498	986,191	1,013.0	999
11/29/2022	2.93	44.3	1,536	270,292	119,829	1,013.0	121
11/30/2022	0.00	44.3	0	0	0	1,013.0	0
Totals/ Average:	675.93	44.3	1,524	64,001,270	28,373,811	1,013.0	28,743
						Maximum	1,075

NOTES:

*Starting April 2022, Methane content determined from the February 23, 2022, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 2,980 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 CH₄= methane

Heat Input Rate A-12 Flare

MONTH: December-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
12/1/2022	12.87	44.3	1,671	1,290,001	571,899	1,013.0	579
12/2/2022	24.00	44.3	1,671	2,406,588	1,066,917	1,013.0	1,081
12/3/2022	24.00	44.3	1,689	2,432,040	1,078,201	1,013.0	1,092
12/4/2022	24.00	44.3	1,676	2,413,627	1,070,038	1,013.0	1,084
12/5/2022	24.00	44.3	1,677	2,414,524	1,070,436	1,013.0	1,084
12/6/2022	24.00	44.3	1,670	2,404,447	1,065,968	1,013.0	1,080
12/7/2022	24.00	44.3	1,670	2,404,980	1,066,205	1,013.0	1,080
12/8/2022	24.00	44.3	1,662	2,393,403	1,061,072	1,013.0	1,075
12/9/2022	24.00	44.3	1,671	2,406,910	1,067,060	1,013.0	1,081
12/10/2022	24.00	44.3	1,659	2,388,727	1,058,999	1,013.0	1,073
12/11/2022	24.00	44.3	1,633	2,352,142	1,042,780	1,013.0	1,056
12/12/2022	24.00	44.3	1,629	2,345,441	1,039,809	1,013.0	1,053
12/13/2022	24.00	44.3	1,636	2,355,848	1,044,423	1,013.0	1,058
12/14/2022	24.00	44.3	1,643	2,365,819	1,048,843	1,013.0	1,062
12/15/2022	24.00	44.3	1,641	2,362,360	1,047,310	1,013.0	1,061
12/16/2022	24.00	44.3	1,637	2,357,678	1,045,234	1,013.0	1,059
12/17/2022	24.00	44.3	1,636	2,355,815	1,044,408	1,013.0	1,058
12/18/2022	24.00	44.3	1,625	2,339,980	1,037,388	1,013.0	1,051
12/19/2022	24.00	44.3	1,622	2,335,007	1,035,183	1,013.0	1,049
12/20/2022	24.00	44.3	1,628	2,343,997	1,039,169	1,013.0	1,053
12/21/2022	24.00	44.3	1,632	2,349,685	1,041,691	1,013.0	1,055
12/22/2022	24.00	44.3	1,627	2,342,343	1,038,436	1,013.0	1,052
12/23/2022	24.00	44.3	1,624	2,338,083	1,036,547	1,013.0	1,050
12/24/2022	24.00	44.3	1,627	2,342,539	1,038,522	1,013.0	1,052
12/25/2022	24.00	44.3	1,630	2,346,518	1,040,287	1,013.0	1,054
12/26/2022	24.00	44.3	1,620	2,333,365	1,034,455	1,013.0	1,048
12/27/2022	24.00	44.3	1,607	2,314,320	1,026,012	1,013.0	1,039
12/28/2022	24.00	44.3	1,608	2,315,870	1,026,699	1,013.0	1,040
12/29/2022	24.00	44.3	1,595	2,297,488	1,018,550	1,013.0	1,032
12/30/2022	24.00	44.3	1,607	2,313,966	1,025,855	1,013.0	1,039
12/31/2022	23.10	44.3	1,615	2,238,424	992,365	1,013.0	1,005
Totals/ Average:	731.97	44.3	1,640	72,001,935	31,920,762	1,013.0	32,336
						Maximum	1,092

NOTES:

The daily heat input rate for the A-12 Flare shall not exceed 2,980 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 CH₄= methane

^{*}Starting April 2022, Methane content determined from the February 23, 2022, A-12 Source Test is used.

APPENDIX M MONTHLY CONDENSATE INJECTION LOGS

CONDENSATE INJECTION TOTALS: 2022

Title V Permit A1812, Condition Number 1437 Part 14

Month	Average Condensate Injection Rate (gpm)	Monthly Condensate Injection Throughput (gallons)	Condensate Injection Throughput 12- Month Total (gallons)
January-22	2.0	72,626	825,011
February-22	1.9	55,415	812,719
March-22	2.1	78,795	809,420
April-22	2.1	72,973	813,492
May-22	2.1	66,903	809,631
June-22	2.3	55,955	806,463
July-22	2.4	55,526	810,481
August-22	2.1	48,980	803,659
September-22	2.0	56,711	800,529
October-22	2.0	68,588	792,232
November-22	1.9	70,331	782,931
December-22	1.9	81,720	784,523

NOTES:

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 1437 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

CONDENSATE INJECTION (A-12 Flare)

July-22

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2022/07/01	00:26:00	2022/07/01	07:44:00	438	2.3	1015
2022/07/01	12:48:00	2022/07/01	17:50:00	302	2.4	720
2022/07/02	00:32:00	2022/07/02	07:34:00	422	2.3	977
2022/07/02	12:24:00	2022/07/02	17:40:00	316	2.4	749
2022/07/02	23:46:00	2022/07/02	23:58:00	14	2.4	34
2022/07/03	00:00:00	2022/07/03	07:08:00	428	2.3	991
2022/07/03	11:40:00	2022/07/03	17:40:00	360	2.3	835
2022/07/03	23:40:00	2022/07/03	23:58:00	20	2.4	48
2022/07/04	00:00:00	2022/07/04	07:22:00	442	2.3	1018
2022/07/04	12:06:00	2022/07/04	17:32:00	326	2.4	768
2022/07/05	00:32:00	2022/07/05	07:32:00	420	2.3	974
2022/07/05	12:50:00	2022/07/05	17:52:00	302	2.4	717
2022/07/06	00:40:00	2022/07/06	07:10:00	390	2.3	905
2022/07/06	11:14:00	2022/07/06	17:26:00	372	2.4	875
2022/07/07	00:04:00	2022/07/07	08:04:00	480	2.3	1106
2022/07/07	12:02:00	2022/07/07	15:10:00	188	2.3	433
2022/07/07	22:04:00	2022/07/07	23:58:00	116	2.4	277
2022/07/08	00:00:00	2022/07/08	05:50:00	350	2.3	810
2022/07/08	09:58:00	2022/07/08	16:24:00	386	2.3	904
2022/07/08	23:16:00	2022/07/08	23:58:00	44	2.4	106
2022/07/09	00:00:00	2022/07/09	07:00:00	420	2.3	978
2022/07/09	11:14:00	2022/07/09	17:14:00	360	2.4	856
2022/07/09	23:40:00	2022/07/09	23:58:00	20	2.4	49
2022/07/10	00:00:00	2022/07/10	08:00:00	480	2.3	1123
2022/07/10	12:20:00	2022/07/10	17:36:00	316	2.4	764
2022/07/11	01:32:00	2022/07/11	09:02:00	450	2.4	1075
2022/07/11	13:32:00	2022/07/11	18:06:00	274	2.5	671
2022/07/12	01:56:00	2022/07/12	10:24:00	508	2.3	1186
2022/07/12	15:10:00	2022/07/12	19:34:00	264	2.5	647
2022/07/13	01:48:00	2022/07/13	10:30:00	522	2.3	1205
2022/07/13	15:14:00	2022/07/13	19:26:00	252	2.4	614
2022/07/14	01:52:00	2022/07/14	09:54:00	482	2.4	1140
2022/07/14	14:30:00	2022/07/14	18:54:00	264	2.5	648
2022/07/15	01:08:00	2022/07/15	09:48:00	520	2.4	1227
2022/07/15	14:22:00	2022/07/15	18:52:00	270	2.5	670
2022/07/16	01:06:00	2022/07/16	09:38:00	512	2.4	1210
2022/07/16	14:04:00	2022/07/16	18:32:00	268	2.4	643
2022/07/17	01:44:00	2022/07/17	09:58:00	494	2.3	1138
2022/07/17	14:52:00	2022/07/17	19:02:00	250	2.4	600
2022/07/18	01:58:00	2022/07/18	07:52:00	354	2.4	834
2022/07/18	15:48:00	2022/07/18	18:02:00	134	2.3	312
2022/07/19	01:54:00	2022/07/19	10:04:00	490	2.3	1128
2022/07/19	14:48:00	2022/07/19	18:56:00	248	2.4	596
2022/07/19	01:18:00	2022/07/19	10:26:00	548	2.3	1240
2022/07/20	14:54:00	2022/07/20	19:02:00	248	2.5	618
2022/07/21	01:14:00	2022/07/21	08:20:00	426	2.4	1013
2022/07/21	16:02:00	2022/07/21	18:44:00	162	2.4	393
2022/07/21	01:48:00	2022/07/21	07:46:00	358	2.4	861
2022/07/22	16:30:00	2022/07/22	17:24:00	54	2.4	128

CONDENSATE INJECTION (A-12 Flare)

July-22

			Maxim	um GPM	2.5	
Totals				23,540	2.4	55,526
2022/07/31	12:28:00	2022/07/31	18:44:00	376	2.4	887
2022/07/31	00:12:00	2022/07/31	07:46:00	454	2.4	1072
2022/07/30	12:24:00	2022/07/30	17:40:00	316	2.4	771
2022/07/30	00:18:00	2022/07/30	07:48:00	450	2.4	1087
2022/07/29	12:16:00	2022/07/29	17:34:00	318	2.5	779
2022/07/29	00:00:00	2022/07/29	07:44:00	464	2.4	1095
2022/07/29	00:00:00	2022/07/29	07:44:00	464	2.4	1095
2022/07/28	12:20:00	2022/07/28	17:24:00	304	2.4	719
2022/07/28	00:46:00	2022/07/28	08:00:00	434	2.3	1008
2022/07/27	12:48:00	2022/07/27	17:46:00	298	2.4	715
2022/07/27	01:06:00	2022/07/27	08:20:00	434	2.3	1012
2022/07/26	13:44:00	2022/07/26	18:20:00	276	2.4	665
2022/07/26	01:12:00	2022/07/26	09:16:00	484	2.3	1114
2022/07/25	13:06:00	2022/07/25	18:14:00	308	2.4	737
2022/07/25	01:00:00	2022/07/25	08:42:00	462	2.4	1100
2022/07/24	13:40:00	2022/07/24	18:52:00	312	2.4	740
2022/07/24	01:14:00	2022/07/24	09:12:00	478	2.3	1093
2022/07/23	14:32:00	2022/07/23	18:40:00	248	2.4	590
2022/07/23	02:22:00	2022/07/23	10:04:00	462	2.4	1095
2022/07/22	17:58:00	2022/07/22	20:12:00	134	2.4	325

gpm= gallons per minute
Pursuant to Title v Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed

CONDENSATE INJECTION (A-12 Flare)

August-22

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2022/08/01	00:54:00	2022/08/01	09:20:00	506	2.3	1,186
2022/08/01	13:34:00	2022/08/01	18:30:00	296	2.4	710
2022/08/02	01:10:00	2022/08/02	08:20:00	430	2.4	1,013
2022/08/03	12:18:00	2022/08/03	17:22:00	304	2.4	718
2022/08/04	12:36:00	2022/08/04	17:42:00	306	2.3	716
2022/08/05	01:16:00	2022/08/05	08:08:00	412	2.3	932
2022/08/05	12:48:00	2022/08/05	17:50:00	302	2.3	704
2022/08/06	01:18:00	2022/08/06	08:20:00	422	2.3	966
2022/08/06	13:14:00	2022/08/06	18:08:00	294	2.4	701
2022/08/07	01:14:00	2022/08/07	08:32:00	438	2.3	1,021
2022/08/07	13:22:00	2022/08/07	18:12:00	290	2.5	711
2022/08/08	01:12:00	2022/08/08	08:32:00	440	2.3	1,029
2022/08/08	13:14:00	2022/08/08	18:42:00	328	2.4	785
2022/08/09	01:20:00	2022/08/09	08:56:00	456	2.3	1,057
2022/08/09	13:34:00	2022/08/09	18:24:00	290	2.4	706
2022/08/10	01:22:00	2022/08/10	09:30:00	488	2.3	1,107
2022/08/10	14:16:00	2022/08/10	18:56:00	280	2.4	671
2022/08/11	01:50:00	2022/08/11	09:48:00	478	2.3	1,098
2022/08/11	14:44:00	2022/08/11	19:28:00	284	2.4	677
2022/08/12	01:36:00	2022/08/12	09:54:00	498	2.3	1,122
2022/08/12	14:48:00	2022/08/12	19:32:00	284	2.4	679
2022/08/13	01:42:00	2022/08/13	09:48:00	486	2.3	1,101
2022/08/13	14:40:00	2022/08/13	19:18:00	278	2.4	664
2022/08/14	02:04:00	2022/08/14	10:24:00	500	2.3	1,139
2022/08/14	15:22:00	2022/08/14	19:38:00	256	2.4	612
2022/08/15	02:28:00	2022/08/15	07:30:00	302	2.3	693
2022/08/15	10:30:00	2022/08/15	15:16:00	286	2.0	581
2022/08/16	01:26:00	2022/08/16	10:48:00	562	1.9	1,089
2022/08/16	16:36:00	2022/08/16	20:48:00	252 578	2.0 1.9	507
2022/08/17 2022/08/17	04:30:00 22:24:00	2022/08/17 2022/08/17	14:08:00 23:58:00	96	2.1	1,093 199
2022/08/17	00:00:00	2022/08/17	05:46:00	346	2.0	693
2022/08/18	10:50:00	2022/08/18	18:24:00	454	2.0	894
2022/08/19	02:22:00	2022/08/19	13:52:00	690	1.9	1,336
2022/08/19	23:14:00	2022/08/19	23:58:00	46	2.1	96
2022/08/20	00:00:00	2022/08/20	08:28:00	508	2.0	1,002
2022/08/20	13:06:00	2022/08/20	19:16:00	370	2.0	749
2022/08/21	02:18:00	2022/08/21	13:28:00	670	1.9	1,292
2022/08/21	21:08:00	2022/08/21	23:58:00	172	2.0	352
2022/08/22	00:00:00	2022/08/22	06:48:00	408	2.0	799
2022/08/22	11:34:00	2022/08/22	18:46:00	432	2.0	868
2022/08/23	01:48:00	2022/08/23	13:26:00	698	2.0	1,365
2022/08/23	22:56:00	2022/08/23	23:58:00	64	2.1	134
2022/08/24	00:00:00	2022/08/24	08:34:00	514	2.0	1,019
2022/08/24	13:38:00	2022/08/24	19:46:00	368	2.0	750
2022/08/25	02:24:00	2022/08/25	07:08:00	284	2.0	556
2022/08/25	07:54:00	2022/08/25	15:12:00	438	1.9	851
2022/08/25	23:52:00	2022/08/25	23:58:00	8	2.1	17
2022/08/26	00:00:00	2022/08/26	07:46:00	466	2.0	917
2022/08/26	08:02:00	2022/08/26	11:04:00	182	1.9	347
2022/08/26	16:32:00	2022/08/26	21:22:00	290	2.0	593
2022/08/27	03:04:00	2022/08/27	14:34:00	690	1.9	1,341
2022/08/27	22:26:00	2022/08/27	23:58:00	94	2.0	192
2022/08/28	00:00:00	2022/08/28	09:20:00	560	1.9	1,092
2022/08/28	14:24:00	2022/08/28	20:48:00	384	2.0	777
2022/08/29	02:14:00	2022/08/29	13:52:00	698	1.9	1,356
2022/08/29	22:12:00	2022/08/29	23:58:00	108	2.1	223
2022/08/30	00:00:00	2022/08/30	08:16:00	496	2.0	980

CONDENSATE INJECTION (A-12 Flare)

August-22

			Maximum GPM		2.4	
Totals				23,060	2.1	48,980
2022/08/31	21:52:00	2022/08/31	23:58:00	128	2.1	265
2022/08/31	02:32:00	2022/08/31	14:08:00	696	2.0	1,369
2022/08/30	13:12:00	2022/08/30	19:28:00	376	2.0	769

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.

CONDENSATE INJECTION (A-12 Flare)

September-22

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2022/09/01	00:00:00	2022/09/01	07:40:00	460	2.0	915
2022/09/01	11:12:00	2022/09/01	12:52:00	100	2.0	202
2022/09/01	15:02:00	2022/09/01	19:12:00	250	2.1	515
2022/09/02	03:06:00	2022/09/02	14:48:00	702	2.0	1,402
2022/09/02	22:48:00	2022/09/02	23:58:00	72	2.1	151
2022/09/03	00:00:00	2022/09/03	09:16:00	556	2.0	1,117
2022/09/03	13:44:00	2022/09/03	19:26:00	342	2.1	707
2022/09/04	02:38:00	2022/09/04	13:56:00	678	2.0	1,358
2022/09/04	23:44:00	2022/09/04	23:58:00	16	2.3	37
2022/09/05	00:00:00	2022/09/05	07:20:00	440	2.1	913
2022/09/05	12:12:00	2022/09/05	17:56:00	344	2.1	713
2022/09/06	03:30:00	2022/09/06	12:26:00	536	2.1	1,103
2022/09/07	01:12:00	2022/09/07	09:04:00	472	2.1	987
2022/09/07	13:38:00	2022/09/07	18:38:00	300	2.1	623
2022/09/08	03:06:00	2022/09/08	13:40:00	634	2.0	1,283
2022/09/09	00:00:00	2022/09/09	08:20:00	500	2.1	1,042
2022/09/09	13:00:00	2022/09/09	18:30:00	330	2.1	685
2022/09/10	02:06:00	2022/09/10	13:12:00	666	2.0	1,340
2022/09/10	19:42:00	2022/09/10	23:58:00	258	2.1	537
2022/09/11	00:00:00	2022/09/11	04:46:00	286	2.0	584
2022/09/11	09:42:00	2022/09/11	17:24:00	462	2.0	947
2022/09/12	00:50:00	2022/09/12	12:42:00	712	2.0	1,442
2022/09/12	19:52:00	2022/09/12	23:58:00	248	2.1	519
2022/09/13	00:00:00	2022/09/13	06:14:00	374	2.0	753
2022/09/13	10:34:00	2022/09/13	18:48:00	494	2.1	1,021
2022/09/14	00:16:00	2022/09/14	14:48:00	872	2.0	1,747
2022/09/14	21:50:00	2022/09/14	23:58:00	130	2.1	271
2022/09/15	00:00:00	2022/09/15	12:00:00	720	2.0	1,447
2022/09/15	17:32:00	2022/09/16	00:00:00	388	2.1	809
2022/09/16	00:00:00	2022/09/16	03:02:00	182	2.0	363
2022/09/16	07:28:00	2022/09/16	17:54:00	626	2.0	1,262
2022/09/16	23:54:00	2022/09/16	23:58:00	6	2.2	13
2022/09/17	00:00:00	2022/09/17	14:28:00	868	2.0	1,738
2022/09/17	20:52:00	2022/09/17	23:58:00	188	2.1	393
2022/09/18	00:00:00	2022/09/18	11:28:00	688	2.0	1,369
2022/09/18	16:20:00	2022/09/18	23:58:00	460	2.0	928
2022/09/19	00:00:00	2022/09/19	09:50:00	590	1.9	1,145
2022/09/19	14:24:00	2022/09/19	22:48:00	504	2.1	1,042
2022/09/20	03:22:00	2022/09/20	17:04:00	822	2.0	1,640
2022/09/20	23:18:00	2022/09/20	23:58:00	42	2.1	88
2022/09/21	00:00:00	2022/09/21	17:10:00	1,030	2.0	2,048
2022/09/21	22:38:00	2022/09/21	23:58:00	82	2.1	171
2022/09/22	00:00:00	2022/09/22	18:14:00	1,094	2.0	2,197
2022/09/22	23:46:00	2022/09/22	23:58:00	14	2.1	30
2022/09/23	00:00:00	2022/09/23	17:26:00	1,046	2.0	2,118
2022/09/23	23:48:00	2022/09/23	23:58:00	12	2.1	25
2022/09/24	00:00:00	2022/09/23	16:14:00	974	2.0	1,972
2022/09/24	23:22:00	2022/09/24	23:58:00	38	2.0	79
2022/09/24	00:00:00	2022/09/24	16:30:00	990	2.1	1,978

CONDENSATE INJECTION (A-12 Flare)

September-22

			Maxim	um GPM	2.2	
Totals				27,974	2.0	56,711
2022/09/30	22:52:00	2022/09/30	23:58:00	68	2.1	143
2022/09/30	00:00:00	2022/09/30	15:56:00	956	2.1	1,964
2022/09/29	22:44:00	2022/09/29	23:58:00	76	2.1	162
2022/09/29	00:00:00	2022/09/29	16:38:00	998	2.0	2,025
2022/09/28	22:24:00	2022/09/28	23:58:00	96	2.1	202
2022/09/28	00:00:00	2022/09/28	16:32:00	992	2.0	2,000
2022/09/27	21:58:00	2022/09/27	23:58:00	122	2.1	256
2022/09/27	00:00:00	2022/09/27	16:00:00	960	2.0	1,943
2022/09/26	22:40:00	2022/09/26	23:58:00	80	2.1	168
2022/09/26	00:00:00	2022/09/26	16:14:00	974	2.0	1,964
2022/09/25	23:06:00	2022/09/25	23:58:00	54	2.1	113

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.

CONDENSATE INJECTION (A-12 Flare)

October-22

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2022/10/01	00:00:00	2022/10/01	06:12:00	372	2.0	758
2022/10/01	09:40:00	2022/10/01	19:34:00	594	2.0	1,187
2022/10/02	00:40:00	2022/10/02	17:46:00	1,026	2.0	2,041
2022/10/02	23:22:00	2022/10/02	23:58:00	38	2.1	79
2022/10/03	00:00:00	2022/10/03	20:58:00	1,258	2.0	2,504
2022/10/04	01:24:00	2022/10/04	19:02:00	1,058	2.0	2,086
2022/10/05	00:26:00	2022/10/05	18:36:00	1,090	2.0	2,159
2022/10/06	00:52:00	2022/10/06	17:10:00	978	2.0	1,960
2022/10/07	00:10:00	2022/10/07	17:12:00	1,022	2.0	2,035
2022/10/08	00:02:00	2022/10/08	16:56:00	1,014	2.0	2,030
2022/10/08	23:46:00	2022/10/08	23:58:00	14	2.0	28
2022/10/09	00:00:00	2022/10/09	17:16:00	1,036	2.0	2,062
2022/10/09	23:26:00	2022/10/09	23:58:00	34	2.0	70
2022/10/10	00:00:00	2022/10/10	13:58:00	838	2.0	1,666
2022/10/11	05:36:00	2022/10/11	20:46:00	910	2.0	1,784
2022/10/12	02:16:00	2022/10/12	09:38:00	442	2.0	863
2022/10/12	10:22:00	2022/10/12	23:58:00	818	3.0	2,426
2022/10/13	00:00:00	2022/10/13	00:14:00	14	2.9	41
2022/10/13	04:44:00	2022/10/13	16:10:00	686	2.3	1,562
2022/10/13	22:02:00	2022/10/13	23:58:00	118	2.0	235
2022/10/14	00:00:00	2022/10/14	18:46:00	1,126	1.9	2,192
2022/10/15	00:30:00	2022/10/15	19:24:00	1,134	2.0	2,217
2022/10/16	00:14:00	2022/10/16	18:34:00	1,100	2.0	2,170
2022/10/16	23:56:00	2022/10/16	23:58:00	4	2.0	8
2022/10/17	00:00:00	2022/10/17	19:20:00	1,160	2.0	2,280
2022/10/18	00:36:00	2022/10/18	19:28:00	1,132	2.0	2,215
2022/10/19	00:58:00	2022/10/19	18:38:00	1,060	2.0	2,097
2022/10/20	00:58:00	2022/10/20	18:18:00	1,040	2.0	2,042
2022/10/21	00:46:00	2022/10/21	19:28:00	1,122	2.0	2,191
2022/10/22	00:30:00	2022/10/22	21:06:00	1,236	1.9	2,407
2022/10/23	01:28:00	2022/10/23	23:58:00	1,352	1.9	2,600
2022/10/24	00:00:00	2022/10/24	03:48:00	228	1.9	431
2022/10/24	08:00:00	2022/10/24	23:58:00	960	1.9	1,853
2022/10/25	00:00:00	2022/10/25	04:04:00	244	1.9	468
2022/10/25	08:14:00	2022/10/25	23:58:00	946	1.9	1,836
2022/10/26	00:00:00	2022/10/26	05:44:00	344	1.9	648
2022/10/26	09:50:00	2022/10/26	23:58:00	850	1.9	1,645
2022/10/27	00:00:00	2022/10/27	16:40:00	1,000	1.9	1,899
2022/10/27	22:34:00	2022/10/27	23:58:00	86	2.0	173
2022/10/28	00:00:00	2022/10/28	21:08:00	1,268	1.9	2,449
2022/10/29	01:28:00	2022/10/29	23:58:00	1,352	1.9	2,614

CONDENSATE INJECTION (A-12 Flare)

October-22

			Maximum GPM		3.0	
Totals				34,486	2.0	68,588
2022/10/31	07:06:00	2022/10/31	23:58:00	1,014	1.9	1,937
2022/10/31	00:00:00	2022/10/31	02:54:00	174	1.9	330
2022/10/30	05:52:00	2022/10/30	23:58:00	1,088	1.9	2,110
2022/10/30	00:00:00	2022/10/30	01:46:00	106	1.9	201

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.

CONDENSATE INJECTION (A-12 Flare)

November-22

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2022/11/01	00:00:00	2022/11/01	21:48:00	1,308	1.9	2,432
2022/11/02	01:44:00	2022/11/02	23:58:00	1,336	1.9	2,511
2022/11/03	00:00:00	2022/11/03	23:58:00	1,440	1.9	2,677
2022/11/04	00:00:00	2022/11/04	14:42:00	882	1.8	1,628
2022/11/04	19:26:00	2022/11/04	23:58:00	274	1.9	528
2022/11/05	00:00:00	2022/11/05	23:58:00	1,440	1.9	2,727
2022/11/06	00:00:00	2022/11/06	05:02:00	346	1.9	646
2022/11/06	09:02:00	2022/11/06	23:58:00	898	1.9	1,726
2022/11/07	00:00:00	2022/11/07	18:18:00	1,098	1.9	2,067
2022/11/07	22:10:00	2022/11/07	23:58:00	110	1.9	214
2022/11/08	00:00:00	2022/11/08	23:58:00	1,440	1.9	2,726
2022/11/09	00:00:00	2022/11/09	23:58:00	1,440	1.9	2,703
2022/11/10	00:00:00	2022/11/10	23:58:00	1,440	1.9	2,685
2022/11/11	00:00:00	2022/11/11	10:08:00	608	1.8	1,121
2022/11/11	13:58:00	2022/11/11	23:58:00	602	1.9	1,141
2022/11/12	00:00:00	2022/11/12	23:58:00	1,440	1.9	2,670
2022/11/13	00:00:00	2022/11/13	23:58:00	1,440	1.8	2,655
2022/11/14	00:00:00	2022/11/14	18:16:00	1,096	1.8	2,010
2022/11/14	22:40:00	2022/11/14	23:58:00	80	2.0	157
2022/11/15	00:00:00	2022/11/15	23:58:00	1,440	1.9	2,732
2022/11/16	00:00:00	2022/11/16	23:58:00	1,440	1.9	2,693
2022/11/17	00:00:00	2022/11/17	06:14:00	374	1.8	688
2022/11/17	10:22:00	2022/11/17	23:58:00	818	1.9	1,532
2022/11/18	00:00:00	2022/11/18	23:58:00	1,440	1.9	2,668
2022/11/19	00:00:00	2022/11/19	19:32:00	1,172	1.8	2,159
2022/11/19	23:40:00	2022/11/19	23:58:00	20	1.9	39
2022/11/20	00:00:00	2022/11/20	23:58:00	1,440	1.9	2,723
2022/11/21	00:00:00	2022/11/21	23:58:00	1,440	1.8	2,664
2022/11/22	00:00:00	2022/11/22	09:34:00	574	1.8	1,045
2022/11/22	13:48:00	2022/11/22	23:58:00	612	1.9	1,157
2022/11/23	00:00:00	2022/11/23	23:58:00	1,440	1.8	2,661
2022/11/24	00:00:00	2022/11/24	17:30:00	1,050	1.8	1,928
2022/11/24	22:14:00	2022/11/24	23:58:00	106	1.9	203
2022/11/25	00:00:00	2022/11/25	23:58:00	1,440	1.9	2,691
2022/11/26	00:00:00	2022/11/26	18:10:00	1,090	1.8	1,979
2022/11/26	22:30:00	2022/11/26	23:58:00	90	1.9	171
2022/11/27	00:00:00	2022/11/27	23:58:00	1,440	1.8	2,659
2022/11/28	00:00:00	2022/11/28	23:58:00	1,440	1.8	2,603
2022/11/29	00:00:00	2022/11/29	02:56:00	176	1.8	316
Totals				37,760	1.9	70,331
			Maxim	num GPM	2.0	

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

CONDENSATE INJECTION (A-12 Flare)

December-22

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2022/12/01	11:18:00	2022/12/01	23:56:00	758	2.4	1,787
2022/12/02	04:16:00	2022/12/02	23:58:00	1,184	2.0	2,384
2022/12/03	00:00:00	2022/12/03	23:58:00	1,440	1.9	2,724
2022/12/04	00:00:00	2022/12/04	23:58:00	1,440	1.9	2,716
2022/12/05	00:00:00	2022/12/05	23:58:00	1,440	1.9	2,717
2022/12/06	00:00:00	2022/12/06	23:58:00	1,440	1.9	2,709
2022/12/07	00:00:00	2022/12/07	23:58:00	1,440	1.9	2,706
2022/12/08	00:00:00	2022/12/08	23:58:00	1,440	1.9	2,708
2022/12/09	00:00:00	2022/12/09	23:58:00	1,440	1.9	2,724
2022/12/10	00:00:00	2022/12/10	23:58:00	1,440	1.9	2,725
2022/12/11	00:00:00	2022/12/11	23:58:00	1,440	1.9	2,707
2022/12/12	00:00:00	2022/12/12	23:58:00	1,440	1.9	2,706
2022/12/13	00:00:00	2022/12/13	23:58:00	1,440	1.9	2,708
2022/12/14	00:00:00	2022/12/14	17:14:00	1,034	1.9	1,939
2022/12/14	21:12:00	2022/12/14	23:58:00	168	1.9	325
2022/12/15	00:00:00	2022/12/15	23:58:00	1,440	1.9	2,728
2022/12/16	00:00:00	2022/12/16	23:58:00	1,440	1.9	2,713
2022/12/17	00:00:00	2022/12/17	23:58:00	1,440	1.9	2,718
2022/12/18	00:00:00	2022/12/18	23:58:00	1,440	1.9	2,714
2022/12/19	00:00:00	2022/12/19	23:58:00	1,440	1.9	2,711
2022/12/20	00:00:00	2022/12/20	23:58:00	1,440	1.9	2,721
2022/12/21	00:00:00	2022/12/21	23:58:00	1,440	1.9	2,723
2022/12/22	00:00:00	2022/12/22	23:58:00	1,440	1.9	2,722
2022/12/23	00:00:00	2022/12/23	23:58:00	1,440	1.9	2,732
2022/12/24	00:00:00	2022/12/24	03:20:00	200	1.9	377
2022/12/24	07:10:00	2022/12/24	23:58:00	1,010	1.9	1,941
2022/12/25	00:00:00	2022/12/25	23:58:00	1,440	1.9	2,756
2022/12/26	00:00:00	2022/12/26	23:58:00	1,440	1.9	2,746
2022/12/27	00:00:00	2022/12/27	23:58:00	1,440	1.9	2,736
2022/12/28	00:00:00	2022/12/28	23:58:00	1,440	1.9	2,720
2022/12/29	00:00:00	2022/12/29	09:22:00	562	1.9	1,057
2022/12/29	13:20:00	2022/12/29	23:58:00	640	1.9	1,239
2022/12/30	00:00:00	2022/12/30	23:58:00	1,440	1.9	2,778
2022/12/31	00:00:00	2022/12/31	17:02:00	1,022	1.9	1,971
2022/12/31	18:34:00	2022/12/31	23:58:00	326	1.9	630
Totals				42,904	1.9	81,720
			Maxin	num GPM	1.9	

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.

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

November 1, 2022

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

Re: Fourth Quarter 2022 Perimeter gas and Methane in Structure Monitoring Report Kirby Canyon Recycling & Disposal Facility

Dear Ms. Azevedo:

This report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Fourth Quarter 2022 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). Results for both probes and structures are summarized in Table 1. Field data are presented in Attachment B.

No exceedances of Subtitle D (40 CFR 258.23) and California Code of Regulations (CCR) Title 27, Division 2, Section 20919.5 were detected during any of the monitoring events.

Results for probes and are summarized in Table 1. All other Field data sheets are presented in Attachment B.

Ms. Becky Azevedo Date: November 1, 2022

Kirby Canyon Recycling and Disposal Facility **Perimeter Gas Monitoring Probe Results**

Analyst: <u>Tino Robles</u> Date: 10/18/2022 Instrument: Gem 5000 Serial #: G502468 Atmospheric Temperature (Deg F): 75 Barometric Pressure: 30.04 Inch of HG

Wind Speed: 5 Mph Wind Direction: N

Weather Condition: Sunny

Probe ID	Time	CH ₄	Probe		lition (clean, locked)	Commonts
Probe ID	1 ime	(%)	Pressure (in-H ₂ 0)	Arrival	Departure	Comments
KIRBP01A	11:08 AM	0	0.05	Ok	Ok	
KIRBP01B	11:10 PM	0	-0.04	Ok	Ok	
KIRBP02A	11:39 AM	0	-0.01	Ok	Ok	
KIRBP02B	11:41 AM	0	-0.01	Ok	Ok	
KIRBP03A	11:45 AM	0	-0.05	Ok	Ok	
KIRBP03B	11:47 AM	0	-0.02	Ok	Ok	
KIRBP04A	11:16 AM	0	-0.04	Ok	Ok	
KIRBP04B	11:18 AM	0	-0.08	Ok	Ok	
KIRBP05A	12:32 PM	0	0.06	Ok	Ok	
KIRBP05B	12:34 PM	0	0.01	Ok	Ok	
KIRBP06A	12:20 PM	0	-0.01	Ok	Ok	
KIRBP06B	12:22 PM	0	0.04	Ok	Ok	
KIRBP07A	12:13 PM	0	0.02	Ok	Ok	
KIRBP07B	12:15 PM	0	-0.01	Ok	Ok	
KIRBP08A	12:05 PM	0	-0.04	Ok	Ok	
KIRBP08B	12:07 PM	0	0.01	Ok	Ok	

Ms. Becky Azevedo Date: November 1, 2022

D 1 10	Tr.	CH ₄	Probe		lition (clean, locked)	G
Probe ID	Time	(%)	Pressure (in-H ₂ 0)	Arrival	Departure	Comments
KIRBP09A	11:59 AM	0	0.01	Ok	Ok	
KIRBP09B	12:01 PM	0	-0.05	Ok	Ok	
KIRBP10A	11:32 AM	0	-0.05	Ok	Ok	
KIRBP10B	11:34 AM	0	-0.08	Ok	Ok	
KIRBP011A	11:28 AM	0	-0.05	Ok	Ok	
KIRBP011B	11:30 AM	0	-0.06	Ok	Ok	
KIRBP12A	11:12 AM	0	-0.06	Ok	Ok	
KIRBP12B	11:14 AM	0	-0.03	Ok	Ok	
KIRBP14A	1:28 PM	0	-0.01	Ok	Ok	
KIRBP14B	1:30 PM	0	-0.02	Ok	Ok	
KIRBP15	10:34 AM	0	0.05	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% CH₄ = 12,500 ppm CH₄

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

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles Date: 10-18-22

Instrument: <u>FID</u> Serial <u>#:0928538411</u>

Monitored Location	Time	PPM	Comments
Scale House	6:55 AM	0	
Admin Building	6:35 AM	0	
Operations Break Trailer	6:45 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1,25 percent methane

Ms. Becky Azevedo Date: November 1, 2022

MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

Perimeter Gas Monitoring

The facility conducted the required monitoring using a CES-Landtec GEM-5000 gas analyzer (GEM). The monitoring was conducted by Tino Robles on October 18, 2022. The static pressure of each probe was monitored using the GEM's internal pressure transducers and the probes were monitored to determine methane concentration.

Facility Structures

Tino Robles used a TVA 1000 to monitor buildings and structures to check for the presence of methane on October 18, 2022. The instrument was calibrated on October 18, 2022, using 500 ppm methane standard.

Combustible Methane Gas Monitor Calibration

Some facility structures are monitored continuously using Sierra Monitors. The monitor is calibrated at a frequency determined by the manufacturer. The most recent calibration was conducted by Tino Robles on October 18, 2022.

GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions are the time of monitoring are presented in Table 3.

Table 3 General Weather Conditions

Description	October 18, 2022
General conditions	Overcast
Avg Wind Speed (mph)	4.3
Wind Direction	NW
Barometric Pressure, (Inches of Hg)	30.03
Average Ambient (Temperature Deg F)	77

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

Thank you,

Waste Management,

Rajan Phadnis

EP Air Specialist- Northern California-Nevada

Attachments: Perimeter Gas Probe Location Map

KCRDF Field Data

ATTACHMENT A SITE MAP



ATTACHMENT B FIELD DATA

Kirby Canyon Recycling and Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles Date: 10/18/2022
Instrument: Gem 5000 Serial #: G502468
Atmospheric Temperature (Deg F): 75

Barometric Pressure: 30.04 Inch of HG

Wind Speed: 5 Mph Wind Direction: N

Weather Condition: Sunny

D 1 ID	TO:	CH ₄	Probe	Probe Condition (clean, capped, locked)		Comments
Probe ID	Time	(%)	Pressure (in-H ₂ 0)	Arrival	Departure	
KIRBP01A	11:08 AM	0	0.05	Ok	Ok	
KIRBP01B	11:10 PM	0	-0.04	Ok	Ok	
KIRBP02A	11:39 AM	0	-0.01	Ok	Ok	
KIRBP02B	11:41 AM	0	-0.01	Ok	Ok	
KIRBP03A	11:45 AM	0	-0.05	Ok	Ok	
KIRBP03B	11:47 AM	0	-0.02	Ok	Ok	
KIRBP04A	11:16 AM	0	-0.04	Ok	Ok	
KIRBP04B	11:18 AM	0	-0.08	Ok	Ok	
KIRBP05A	12:32 PM	0	0.06	Ok	Ok	
KIRBP05B	12:34 PM	0	0.01	Ok	Ok	
KIRBP06A	12:20 PM	0	-0.01	Ok	Ok	
KIRBP06B	12:22 PM	0	0.04	Ok	Ok	
KIRBP07A	12:13 PM	0	0.02	Ok	Ok	
KIRBP07B	12:15 PM	0	-0.01	Ok	Ok	
KIRBP08A	12:05 PM	0	-0.04	Ok	Ok	
KIRBP08B	12:07 PM	0	0.01	Ok	Ok	
KIRBP09A	11:59 AM	0	0.01	Ok	Ok	
KIRBP09B	12:01 PM	0	-0.05	Ok	Ok	
KIRBP10A	11:32 AM	0	-0.05	Ok	Ok	

Post to ID	T:	CH ₄	Probe	Probe Condition (clean, capped, locked)		Comments
Probe ID	Time	(%)	Pressure (in-H ₂ 0)	Arrival	Departure	
KIRBP10B	11:34 AM	0	-0.08	Ok	Ok	
KIRBP011A	11:28 AM	0	-0.05	Ok	Ok	
KIRBP011B	11:30 AM	0	-0.06	Ok	Ok	
KIRBP12A	11:12 AM	0	-0.06	Ok	Ok	
KIRBP12B	11:14 AM	0	-0.03	Ok	Ok	
KIRBP14A	1:28 PM	0	-0.01	Ok	Ok	
KIRBP14B	1:30 PM	0	-0.02	Ok	Ok	
KIRBP15	10:34 AM	0	0.05	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% CH₄ = 12,500 ppm CH₄

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

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles	Date: <u>10-18-22</u>	
Instrument: TVA-1000	Serial #: 0928538411	

Monitored Location	Time	PPM	Comments
Scale House	6:55 AM	0	
Admin Building	6:35 AM	0	
Operations Break Trailer	6:45 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: June 16, 2023

Location	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED / COMMENTS ON MONITOR CONDITION
Main Office	10-18-22	1500700086GAM	YES	Good Condition
Scale House	10-18-22	1819303476GCN	YES	Good Condition
Break Trailer	10-18-22	1819303478GCN	YES	Good Condition

^{**} This form must be retained for 12 months after completion.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: KCROR Date: 6 (8/27) Time: 630 AM PM
Time: USO AM PM Instrument Make: Werno Model: WA-1000 B S/N: 0928 53 SH V
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): ppm (a)
2. Downwind Reading (highest in 30 seconds):
Calculate Background Value:
$\frac{(a) + (b)}{2} \qquad \text{Background} = \underbrace{\qquad } \text{ppm}$

Performed By:

CALIBRATION PRECISION TEST RECORD

Date: 10/6/22
Expiration Date (3 months): $1/(e/23)$
Time: 625 AM PM
Instrument Make: Thermo Model: TVA-100B S/N: 0928538411
Measurement #1:
Meter Reading for Zero Air: ppm (a)
Meter Reading for Calibration Gas: 504 ppm (b)
Measurement #2:
Meter Reading for Zero Air: ppm (c)
Meter Reading for Calibration Gas: 502 ppm (d)
Measurement #3:
Meter Reading for Zero Air: ppm (e)
Meter Reading for Calibration Gas: 502 ppm (f)
Calculate Precision:
$\frac{\{ (500) - (b) + (500) - (d) + (500) - (f) \}}{3} \times \frac{1}{500} \times 100$
% (must be < than 10%)
Parformed Por Pol 18

RESPONSE TIME TEST RECORD

Time: <u>625</u> AM PM		
Instrument Make: Thermo Model: TVA-1000B	S/N: 092	285384
Measurement #1:		
Stabilized Reading Using Calibration Gas: 90% of the Stabilized Reading:	501 484	ppm ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas:	_ 7	_ seconds
Measurement #2:		
Stabilized Reading Using Calibration Gas: 90% of the Stabilized Reading:	502	_ ppm _ ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas:	4	_ seconds
Measurement #3:		
Stabilized Reading Using Calibration Gas: 90% of the Stabilized Reading:	502	_ ppm _ ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas:	_5	_ seconds
Calculate Response Time:		1
(a) + (b) + (c) = seconds (must be less than 30	seconds)	



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

October 3, 2022

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

Re: Third Quarter 2022 Perimeter gas and Methane in Structure Monitoring Report Kirby Canyon Recycling & Disposal Facility

Dear Ms. Azevedo:

This report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Third Quarter 2022 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). Results for both probes and structures are summarized in Table 1. Field data are presented in Attachment B.

No exceedances of Subtitle D (40 CFR 258.23) and California Code of Regulations (CCR) Title 27, Division 2, Section 20919.5 were detected during any of the monitoring events.

Results for probes and are summarized in Table 1. All other Field data sheets are presented in Attachment B.

Ms. Becky Azevedo Date: October 3, 2022

Kirby Canyon Recycling and Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles Date: 9/21/2022
Instrument: Gem 5000 Serial #: G502468
Atmospheric Temperature (Deg F): 81

Barometric Pressure: 29.96 Inch of HG

Wind Speed: 10 Mph Wind Direction: NW

Weather Condition: Overcast

D 1 10	Tr.	CH ₄ Probe Pressure			lition (clean, , locked)	C
Probe ID	Time	(%)	(%) rressure (in-H ₂ 0)	Arrival	Departure	Comments
KIRBP01A	12:24 PM	0	-0.08	Ok	Ok	
KIRBP01B	12:26 PM	0	-0.02	Ok	Ok	
KIRBP02A	1:16 PM	0	-0.01	Ok	Ok	
KIRBP02B	1:18 PM	0	0.00	Ok	Ok	
KIRBP03A	1:23 PM	0	-0.01	Ok	Ok	
KIRBP03B	1:25 PM	0	-0.05	Ok	Ok	
KIRBP04A	1:28 PM	0	0.00	Ok	Ok	
KIRBP04B	1:30 PM	0	-0.01	Ok	Ok	
KIRBP05A	1:35 PM	0	0.00	Ok	Ok	
KIRBP05B	1:37 PM	0.1	-0.02	Ok	Ok	
KIRBP06A	1:32 PM	0	-0.01	Ok	Ok	
KIRBP06B	1:44 PM	0.1	-0.03	Ok	Ok	
KIRBP07A	1:47 PM	0	-0.04	Ok	Ok	
KIRBP07B	1:49 PM	0.1	-0.02	Ok	Ok	
KIRBP08A	1:55 PM	0	-0.01	Ok	Ok	
KIRBP08B	1:57 PM	0	-0.04	Ok	Ok	

Ms. Becky Azevedo Date: October 3, 2022

D 1 10	Tr.	CH ₄	Probe		lition (clean, locked)	G .
Probe ID	Time	(%) Pressure (in-H ₂ 0)		Arrival	Departure	Comments
KIRBP09A	12:46 PM	0	-0.02	Ok	Ok	
KIRBP09B	12:55 PM	0	-0.02	Ok	Ok	
KIRBP10A	12:32 PM	0	-0.06	Ok	Ok	
KIRBP10B	12:34 PM	0	-0.05	Ok	Ok	
KIRBP011A	11:44 AM	0	-0.01	Ok	Ok	
KIRBP011B	11:46 AM	0	-0.08	Ok	Ok	
KIRBP12A	12:38 PM	0	-0.03	Ok	Ok	
KIRBP12B	12:39 PM	0	-0.02	Ok	Ok	
KIRBP14A	2:07 PM	0.2	-0.05	Ok	Ok	
KIRBP14B	2:09 PM	0.2	0.00	Ok	Ok	
KIRBP15	12:18 PM	0	-0.11	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% CH₄ = 12,500 ppm CH₄

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

STRUCTURE FID MONITORING DATA

Analyst: <u>Tino Robles</u> Date: 9-2-22

Instrument: <u>FID</u> Serial #:0928538411

Monitored Location	Time	PPM	Comments
Scale House	7:15 AM	0	
Admin Building	6:55 AM	0	
Operations Break Trailer	7:00 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane

Ms. Becky Azevedo Date: October 3, 2022

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 September 21, 2022. 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 September 2, 2022. The instrument was calibrated on September 2, 2022, 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 September 2, 2022.

GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions are the time of monitoring are presented in Table 3.

Table 3 General Weather Conditions

Description	September 21, 2022
General conditions	Overcast
Avg Wind Speed (mph)	11.8
Wind Direction	N
Barometric Pressure, (Inches of Hg)	29.96
Average Ambient (Temperature Deg F)	66

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

Thank you,

Waste Management,

Rajan Phadnis

EP Air Specialist- Northern California-Nevada

Attachments: Perimeter Gas Probe Location Map

KCRDF Field Data

ATTACHMENT A SITE MAP



ATTACHMENT B FIELD DATA

Kirby Canyon Recycling and Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles Date: 9/21/2022
Instrument: Gem 5000 Serial #: G502468
Atmospheric Temperature (Deg F): 81
Barometric Pressure: 29.96 Inch of HG

Wind Speed: 10 Mph Wind Direction: NW

Weather Condition: Overcast

D 1 ID	TO:	CH ₄	Probe		Condition ped, locked)	Comments
Probe ID	Time	(%)	Pressure (in-H ₂ 0)	Arrival	Departure	
KIRBP01A	12:24 PM	0	-0.08	Ok	Ok	
KIRBP01B	12:26 PM	0	-0.02	Ok	Ok	
KIRBP02A	1:16 PM	0	-0.01	Ok	Ok	
KIRBP02B	1:18 PM	0	0.00	Ok	Ok	
KIRBP03A	1:23 PM	0	-0.01	Ok	Ok	
KIRBP03B	1:25 PM	0	-0.05	Ok	Ok	
KIRBP04A	1:28 PM	0	0.00	Ok	Ok	
KIRBP04B	1:30 PM	0	-0.01	Ok	Ok	
KIRBP05A	1:35 PM	0	0.00	Ok	Ok	
KIRBP05B	1:37 PM	0.1	-0.02	Ok	Ok	
KIRBP06A	1:32 PM	0	-0.01	Ok	Ok	
KIRBP06B	1:44 PM	0.1	-0.03	Ok	Ok	
KIRBP07A	1:47 PM	0	-0.04	Ok	Ok	
KIRBP07B	1:49 PM	0.1	-0.02	Ok	Ok	
KIRBP08A	1:55 PM	0	-0.01	Ok	Ok	
KIRBP08B	1:57 PM	0	-0.04	Ok	Ok	
KIRBP09A	12:46 PM	0	-0.02	Ok	Ok	
KIRBP09B	12:55 PM	0	-0.02	Ok	Ok	
KIRBP10A	12:32 PM	0	-0.06	Ok	Ok	

D 1 10		CH ₄	Probe		Condition ped, locked)	Comments
Probe ID	Time	(%)	Pressure (in-H ₂ 0)	Arrival	Departure	
KIRBP10B	12:34 PM	0	-0.05	Ok	Ok	
KIRBP011A	11:44 AM	0	-0.01	Ok	Ok	
KIRBP011B	11:46 AM	0	-0.08	Ok	Ok	
KIRBP12A	12:38 PM	0	-0.03	Ok	Ok	
KIRBP12B	12:39 PM	0	-0.02	Ok	Ok	
KIRBP14A	2:07 PM	0.2	-0.05	Ok	Ok	
KIRBP14B	2:09 PM	0.2	0.00	Ok	Ok	
KIRBP15	12:18 PM	0	-0.11	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% CH₄ = 12,500 ppm CH₄

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

STRUCTURE FID MONITORING DATA

Analyst: <u>Tino Robles</u>	Date: <u>9-2-22</u>	
Instrument: TVA-1000	Serial <u>#: 0928538411</u>	

Monitored Location	Time	PPM	Comments
Scale House	7:15 AM	0	
Admin Building	6:55 AM	0	
Operations Break Trailer	7:00 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.



GAS DETECTOR CALIBRATION RECORD

LOCATION: KIRBY CANYON RECYCLING AND DISPOSAL FACILITY

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #2001

CALIBRATED BY / INSTRUMENT USED: Cal System Model# 26

CALIBRATION GAS EXPIRATION DATE: June 16, 2023

Location	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED / COMMENTS ON MONITOR CONDITION
Main Office	9-2-22	1500700086GAM	YES	Good Condition
Scale House	9-2-22	1819303476GCN	YES	Good Condition
Break Trailer	9-2-22	1819303478GCN	YES	Good Condition

^{**} This form must be retained for 12 months after completion.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: KCPDF Date: 9/2/22 Time: 645 AM PM
Instrument Make: Werwo Model: WALOOB 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): ppm (a)
2. Downwind Reading (highest in 30 seconds); ppm (b)
Calculate Background Value: (a) + (b) Background = 1.5 ppm 2
Performed By:

CALIBRATION PRECISION TEST RECORD

Landfill Name: Krb+ Date: 7 6 22
Expiration Date (3 months): 10 /0 22
Time: QUS AMPM
Instrument Make: TVA 1008 Model: Thermal S/N: 0978538411
Measurement #1:
Meter Reading for Zero Air: Ô ppm (a)
Meter Reading for Zero Air:
Measurement #2:
Meter Reading for Zero Air: ppm (c) Meter Reading for Calibration Gas: ppm (d)
Meter Reading for Calibration Gas: 500 ppm (d)
Measurement #3:
Meter Reading for Zero Air: ppm (e) Meter Reading for Calibration Gas: ppm (f)
Meter Reading for Calibration Gas:ppm (f)
Calculate Precision:
$\frac{\{(500) - (b) + (500) - (d) + (500) - (f)\}}{3} \times \frac{1}{500} \times 100$
% (must be < than 10%)
Performed By:

RESPONSE TIME TEST RECORD

The state of the s

いいというのでは、「我们的大学、大学のでは、大学のでは、「大学の大学の大学の大学の大学の大学の大学の大学を表現しています。」というないないできます。

- 1/6/22
Date: 1/4/100
Expiration Date (3 months): $0/6/22$
Time: QYS AMPM
Instrument Make: TVA 1000 B Model: THE MAL S/N: 092653411
Measurement #1:
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: seconds (a)
Measurement #2:
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: ypm ppm ppm seconds (b)
Measurement #3:
Stabilized Reading Using Calibration Gas: 50\ ppm 90% of the Stabilized Reading: customer ppm Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: seconds (c)
Calculate Response Time:
$\frac{(a) + (b) + (c)}{3} = \frac{\text{seconds (must be less than 30 seconds)}}{3}$
Performed By:

APPENDIX O

A-12 FLARE PERFORMANCE TEST SUMMARY OF RESULTS

Kirby Canyon Recycling and Disposal Facility BAAQMD Facility # 1812

Compliance Test Report #22059 Landfill Gas Flare A-12

Located at: **Kirby Canyon Recycling and Disposal Facility**910 Coyote Creek Golf Drive
San Jose, CA 95037

Prepared for:
SCS Engineers
3117 Fite Circle, Suite 108
Sacramento, CA 95827
Attn: Maria Bowen
mbowen@scsengineers.com

For Submittal to:

Bay Area Air Quality Management District

375 Beale Street, Suite 600 San Francisco, CA 94105 Attn: Gloria Espena/Marco Hernandez

gespena@baaqmd.gov/mhernandez@baaqmd.gov sourcetest@baaqmd.gov

Testing Performed on: February 23rd, 2022

Final Report Submitted on: **April 6th, 2022**

Performed and Reported by:
Blue Sky Environmental, Inc.
624 San Gabriel Avenue
Albany, CA 94706
Office (510) 508-3469/Mobile (510) 508 3469

bluesky@blueskyenvironmental.com



REVIEW AND CERTIFICATION

Team Leader:

The work performed herein was conducted under my supervision, and I certify that:

- a) the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program,
- b) that the sampling and analytical procedures and data presented in the report are authentic and accurate,
- c) that all testing details and conclusions are accurate and valid, and
- d) that the production rate and/or heat input rate during the source test are reported accurately.

If this report is submitted for compliance purposes it should only be reproduced in its entirety. If there are any questions concerning this report, please contact me at (925) 338-4875.

Chuck Arrivas, QSTI

Project Manager

Blue Sky Environmental, Inc.



TABLE OF CONTENTS

SECTION	N 1. INTRODUCTION	4
1.1.	SUMMARY	4
SECTION	N 2. SOURCE TEST PROGRAM	6
2.1.	Overview	
2.2.	POLLUTANTS TESTED	6
2.3.	TEST DATE(S)	6
2.4.	SAMPLING AND OBSERVING PERSONNEL	6
2.5.	SOURCE/PROCESS DESCRIPTION	7
2.6.	Source Operating Conditions	7
SECTION	N 3. SAMPLING AND ANALYSIS PROCEDURES	8
3.1.	PORT LOCATION	
3.2.	POINT DESCRIPTION/LABELING - PORTS/STACK	8
3.3.	SAMPLE TRAIN DESCRIPTION	8
3.4.	SAMPLING PROCEDURE DESCRIPTION	8
3.5.	INSTRUMENTATION AND ANALYTICAL PROCEDURES	12
3.6.	COMMENTS: LIMITATIONS AND DATA QUALIFICATIONS	13
SECTION	N 4. APPENDICES	14
A.	Tabulated Results	
<i>B</i> .	Calculations	
С.	Laboratory Reports	
D.	Field Data Sheets	
<i>E</i> .	Strip Charts	
F.	Process Information	
G.	QC Calibration Certificates and Quality Assurance Records	
Н.	Sample Train Configuration and Stack Diagrams Polyted Computer advance (Sympa Test Plan, and Empire)	
<i>I.</i>	Related Correspondence (Source Test Plan and Email) BAAOMD Permit Conditions	
J. K	BAAQIND Permu Condutions Flare Flow Meter Calibration Records	



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 San Jose, California. Testing was conducted to demonstrate that Landfill Gas Flare A-12 is operating in compliance with condition 1437 of the Bay Area Air Quality Management District (BAAQMD) permit to operate for Facility 1812.

Results of the test program are presented in this report. The source test information is summarized in Table 1-1. Test results derived from the source test are summarized in Table 1-2. Results for individual test runs are provided in Appendix A. The flare met all compliance emission criteria.

Table 1. Source Test Information

Test Location:	Kirby Canyon Recycling and Disposal Facility (KCRDF) 910 Coyote Creek Golf Drive, San Jose, CA 95037
Source Contact:	Rebecca Azevedo, Waste Management (408) 779-2206
Source Tested:	Flare A-12 – 124 MMBtu/hr LFG Specialties, Inc. enclosed landfill gas flare
Source Test Date:	February 23 rd , 2022
Test Objective:	Determine compliance with condition 1437 of the Bay Area Air Quality Management District (BAAQMD) permit to operate for Plant 1812; BAAQMD Regulation 8, Rule 34; and the State Landfill Methane Gas Rule under AB32 for Flare performance.
Test Performed by:	Blue Sky Environmental, Inc 624 San Gabriel Avenue, Albany, CA 94706 Chuck Arrivas (925) 338-4875 carrivas@blueskyenvironmental.com
Test Parameters:	Landfill Gas O ₂ , N ₂ , CO ₂ , BTU, THC, CH ₄ , NMOC, HHV, F-Factor, sulfur and VOC species, volumetric flow rate Flare Emissions THC, CH ₄ , NMOC, NO _X , CO, O ₂ , SO ₂ , moisture, volumetric flow rate.



Table 2. Compliance Summary

Condensate ON

Emission Parameter	Average Results (Flare A-12)	Permit Limit	Compliance Status
NO _x , lb/MMBtu	0.0474	0.06	In Compliance
CO, lb/MMBtu	0.00443	0.30	In Compliance
SO ₂ , ppmvd	28.6	300	In Compliance
NMOC, ppmvd @ 3% O ₂	3.84	30	In Compliance
NMOC Destruction Efficiency, %	98.88%	>98%	In Compliance
CH ₄ Destruction Efficiency, %	>99.97%	>99%	In Compliance

Condensate OFF

Emission Parameter	Average Results (Flare A-12)	Permit Limit	Compliance Status
NO _x , lb/MMBtu	0.0400	0.06	In Compliance
CO, lb/MMBtu	0.0061	0.30	In Compliance
SO ₂ , ppmvd	23.5	300	In Compliance
NMOC, ppmvd @ 3% O ₂	4.17	30	In Compliance
NMOC Destruction Efficiency, %	99.00%	>98%	In Compliance
CH ₄ Destruction Efficiency, %	>99.97%	>99%	In Compliance



SECTION 2. SOURCE TEST PROGRAM

2.1. Overview

This annual source test was performed to demonstrate that Landfill Gas Flare A-12 is operating in accordance with Bay Area Air Quality Management District (BAAQMD) permit condition #1437 for Facility #1812 and BAAQMD Regulation 8, Rule 34. This testing also satisfies the compliance requirements outlined in the State Landfill Methane Gas Rule under AB32 for Flare performance.

2.2. Pollutants Tested

The following U.S. Environmental Protection Agency (EPA) and ASTM International sampling and analytical methods were used:

EPA Method 1	Sample and Traverse Point Determination
EPA Method 3A	O ₂ and CO ₂ , Stack Gas Molecular Weight

EPA Method 10 CO

EPA Method 7E NO_x and NO₂ Converter Check

EPA Method 4 Moisture Calculation EPA Method 18 CH₄, THC, NMOC

EPA Method 19 Flow Rate Calculation DSCFM

EPA Method 25A VOC Emissions

EPA Method 25C TNMHC (NMOC) in fuel

ASTM D-1945/3588 BTU, F-Factor and Fixed Gases in Fuel

ASTM D-5504 Sulfur Species, Hydrogen Sulfide (H₂S) and TRS

EPA Method TO-15 Toxic Organic Compounds

2.3. Test Date(s)

Testing was conducted on February 23rd, 2022.

2.4. Sampling and Observing Personnel

Testing was conducted by Chuck Arrivas and Wesley Alder, representing Blue Sky Environmental, Inc.

Rajan Phadnis, Tino Robles and James Dutra of Waste Management (WM) were present to operate the flare and assist in coordinating testing and the collection of process data during testing. Jon Silva of SCS Engineers was also on-site to assist with the test program.

BAAQMD was notified of the scheduled testing in a plan submitted by SCS Engineers on behalf of Waste Management on January 21st, 2022. A Source Test Protocol acknowledgement (NST #7170) was received on January 24th, 2022; however, no agency observers were present during the test program. A copy of the source test protocol and email correspondence are provided in Appendix I.



2.5. Source/Process Description

Kirby Canyon Recycling and Disposal Facility, located in San Jose, CA, is a multi-material landfill with a gas collection system that is abated by an industrial landfill gas flare. Flare A-12 has a 124 MMBtu/hr multiple nozzle burner. The flare shell is 50 feet high and 12.5 feet in diameter. The inside diameter (ID) is approximately 138 inches.

The flare temperature set-point is established at 1,565 °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 1.32 gallons per minute (gpm) while in the "on" position.

The average exhaust temperature at normal operating condition was 1,533 °F. The LFG flowrate ranged from 1,773 to 1,787 SCFM. The Yokogowa clock is ahead for real-time by 34 minutes. The operating exhaust temperature, and LFG flowrate records are provided in Appendix F.

Landfill gas samples collected at the head of the flare showed an average methane content of 44.3% and an oxygen content of 2.8%.



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 (90° apart) to check for the presence of cyclonic flow. Sampling was performed for two minutes per point for a total of 16 points over each 32-minute test run. O₂ stratification was greater than 10%; therefore, subsequent CEM sampling was conducted using all traverse points. 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.

3.3. Sample Train Description

Sampling system diagrams are provided in Appendix H. Additional descriptive information is included in the following section.

3.4. Sampling Procedure Description

Six consecutive 30-minute gaseous emissions tests were conducted for oxides of nitrogen (NO_x), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO₂), oxygen (O₂), and total hydrocarbons (THC) at the flare exhaust stack. Three tests were performed with the Condensate Injection On and three tests were performed with the Condensate Injection Off.

The sampling system was checked for leaks before the start of the testing, by plugging the sample probe and observing the sample rotameter flow drop to zero. Instrument linearity and system bias were checked. The system response time for each analyzer was recorded. The temperatures of the heated sample line between the probe and sample conditioner/condenser, and the condenser exhaust temperatures were maintained within limits during each test run.

Analyzer external calibrations were performed before and after each run using EPA protocol certified gas standards. Calibration gases were introduced to the sample manifold at the same flow rate as the sample. A NOx analyzer converter efficiency check was performed before the first test run and achieved an efficiency greater than 90%.

Concurrent with the exhaust sampling, Blue Sky collected a total of six integrated fuel samples (three samples with the Condensate Injection On and three samples with the Condensate Injection Off) for off-site analysis by Atmospheric Analysis & Consulting, Inc., in Ventura, CA. The samples were collected in 6-liter SUMMA canisters and analyzed for hydrocarbons by EPA Method 25, sulfur species (incl. H₂S 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 C¹-C⁶⁺ hydrocarbons by EPA Method 25C and ASTM D-1945.



The sampling and analysis procedures are summarized below:

EPA Method 1 – Sample and Velocity Traverses for Stationary Sources

This method is used to determine the duct or stack area and appropriate traverse points that represent equal areas of the duct for sampling and velocity measurements.

EPA Method 3A – Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure oxygen and carbon dioxide in stationary source emissions using a continuous instrumental analyzer to determine the molecular weight of the stack gas. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. A small portion of the sample is passed through a fuel cell type paramagnetic oxygen analyzer which measures the electrical current generated by the oxidation reaction at the gas/fuel cell interface. Carbon dioxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon dioxide absorbs infrared radiation.

EPA Method 7E – Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure nitrogen oxides in stationary source emissions using a continuous instrumental analyzer. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Nitric oxide is determined by passing the sample through a chemiluminescent analyzer. The chemiluminescent process is based on the light given off when nitric oxide and ozone react. Nitrogen dioxide (NO₂) concentrations are determined by passing the sample through a catalyst which reduces the NO₂ to NO. The total oxides of nitrogen concentration (NO₂ + NO) is then determined by chemiluminescence.

Section 16.2.2 of the method is used to determine the NO_X analyzer NO_2 to NO conversion efficiency.

EPA Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources

This method is used to measure carbon monoxide from integrated or continuous gas samples extracted from a sampling point. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Carbon monoxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon monoxide absorbs infrared radiation.

EPA Methods 3A, 7E and 10 are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample, and analyzing it by continuous monitoring gas analyzers in a continuing emissions monitoring (CEM) test van. The sampling system consists of a stainless steel sample probe, Teflon sample line, glass-fiber particulate filter, and glass moisture-knockout condensers in ice, followed by thermoelectric coolers (optional), Teflon sample transfer tubing, a diaphragm pump, and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.



The sampling and analytical system is checked for linearity with zero, mid (40-60%) and high span (80-100%) calibrations and is checked for system bias at the beginning and end of each run. System bias is determined by introducing calibration gas to the probe and pulling it through the entire sampling system. Individual test run calibrations use the calibration gas that most closely matches the stack gas effluent. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test. EPA Methods 3A, 7E and 10 all defer to EPA Method 7E for the calculations of effluent concentration, span, calibration gas, analyzer calibration error (linearity), sampling system bias, zero drift, calibration drift and response time.

System Performance Criteria

 Instrument Linearity
 ≤2% Full Scale

 Instrument Bias
 ≤5% Full Scale

 System Response Time
 ≤± 2 minutes

NO_X Converter Efficiency (EPA Method 7E) $\geq 90\%$

Instrument Zero Drift ≤± 3% Full Scale
Instrument Span Drift ≤± 3% Full Scale

EPA Method 4 – Determination of Moisture Content in Stack Gas

This method is used to determine the moisture content of stack gas. The sample is extracted and condensed in Greenburg-Smith impingers immersed in an ice bath and in a final impinger silica gel trap. The moisture is condensed in a solution of de-ionized water, or solutions of another type of sampling train if the moisture is being determined as part of another sampling method, such as EPA Method 5, SCAQMD Method 201.7 or BAAQMD ST-32. The moisture gain in the impinger solutions and silica gel is determined volumetrically and gravimetrically respectively.

QA/QC procedures require that a minimum of 21 cubic feet of sample is pulled using a leak tight pump. The sample volume is measured with a calibrated dry gas meter. The impingers are immersed in an ice bath to maintain a gas outlet temperature of less than 68°F. Pre-test leak checks are performed for each run using a minimum 15 inches of mercury vacuum. Post-test leak checks are performed at the highest sample vacuum or greater. The leak test is acceptable if the leak rate is less than 0.02 cubic feet per minute or 4% of the average sampling rate, whichever is less. If the final leak check exceeds the criteria, either the volume is corrected based on the leak rate or the run is voided and repeated.

EPA Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography

This method is used to determine emissions of volatile organics by gas chromatograph/mass spectroscopy (GC/MS). Gaseous emissions are drawn through a Teflon sample transfer line to a Tedlar bag held in a rigid leak proof bag container. The sample is drawn into the bag by evacuating the container to stack gas pressure to allow sample flow without using a pump to avoid contamination. Negative pressure is adjusted to maintain an integrated sample flow for the collection time. Samples are analyzed on-site using a charcoal scrubber to remove the non-methane organics and determining the difference between the total hydrocarbon and non-methane hydrocarbon concentrations.



EPA Method 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 CO₂ are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO₂ then reduced to methane and analyzed.



ASTM D1945 - Analysis of Natural Gas by Gas Chromatography

This method is used to measure fixed gases (such as oxygen, nitrogen, carbon monoxide, and carbon dioxide) and methane by gas chromatography (GC/TCD). Light hydrocarbons, including C1-C7, are analyzed by GC/FID.

ASTM D-3588 – Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels

This method uses the molar composition of gaseous fuel determined from Method ASTM D-1945 to calculate the heating value and F-factor.

ASTM D-5504 – Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

This method is used for the determination of speciated volatile sulfur-containing compounds in high methane content gaseous fuels by gas chromatography. Sulfur compounds are processed using a flame ionization detector (GC/FID). The products are then analyzed with a sulfur chemiluminescence detector (GC/SCD). Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed 7 days.

EPA Compendium Method TO-15 - Determination of Toxic Organic Compounds in Ambient Air

This method is used to measure volatile organic compounds that are included in the hazardous air pollutants (HAPs) listed in Title III of the Clean Air Act Amendments of 1990 by GC/MS (gas chromatography/mass spectroscopy). Samples are collected in pre-evacuated 6-Liter SUMMA canisters with pre-set flow controllers set to integrate over the desired test duration. The SUMMA® passivated canisters allow holding times up to 14 days for the TO-15 Method list of volatile organics. The sample gas is drawn by the canister vacuum through a micro-filter, pre-set orifice flow controller and on/off valve into the canister. The canister vacuum is monitored with a vacuum gauge to verify sample collection. The flow controller consisted of capillary orifice tubing designed to sample for a pre-set duration of 0.75hrs.

3.5. Instrumentation and Analytical procedures

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO Model 42C	NO _X /NO/NO ₂	Chemiluminescence
TECO Model 48C	CO	Gas Filter Correlation/IR
TECO Model 55C	NMOC/CH ₄	Flame Ionization (FID)
Servomex Model 1440	CO_2	Infrared (IR)
Servomex Model 1440	O_2	Paramagnetic

The analyzer data recording system consists of a Honeywell DPR300 strip chart recorder, supported by a data acquisition system (DAS). The instrument response is recorded on strip charts and DAS. The averages are corrected for drift using BAAQMD and EPA Method 7E equations. All system performance criteria were met.



3.6. Comments: Limitations and Data Qualifications

This source test was performed in accordance with the protocol submitted to BAAQMD. No deviations from the protocol or anomalies were observed during testing. The measured emissions from the flare comply with the permit limits.

Blue Sky Environmental has reviewed this report for accuracy and concluded that the test procedures were followed and accurately described and documented. The review included the following items:

Review of the general text Review of calculations Review of CEMS data Review of supporting documentation

The services described in this report were performed in a manner consistent with the generally accepted professional testing principles and practices. No other warranty, expressed or implied, is made. These services were performed in a manner consistent with our agreement with our client. The report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions contained in this report pertain to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and operating parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations, subsequent to this, and do not warranty the accuracy of information supplied by others.

SECTION 4. APPENDICES

A.	Tabulated Results
В.	Calculations
C.	Laboratory Reports
D.	Field Data Sheets
E.	Strip Charts
F.	Process Information
G.	QC Calibration Certificates and Quality Assurance Records
н.	Sample Train Configuration and Stack Diagrams
I.	Related Correspondence (Source Test Plan and Email)
J.	BAAQMD Permit Conditions
K.	Flare Flow Meter Calibration Records

A Tabulated Results

TABLE #1

Kirby Canyon Recycling & Disposal Facility Flare A-12

Condensate - ON

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/23/22	2/23/22	2/23/22		
Test Time	0848-0922	0940-1017	1105-1146		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,533	1,534	1,533	1,533	
Fuel:	<u>.</u>				
Condensate Injection, gpm	1.32	1.32	1.32	1.32	
Fuel Flow Rate, SCFM	1,775	1,773	1,781	1,776	
Fuel Heat Input, MMBtu/hr	47.1	47.1	47.9	47.3	
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	17,737	17,713	19,359	18,270	
Oxygen (O2), % volume dry	12.1	12.1	12.7	12.3	
Carbon Dioxide (CO ₂), % volume dry	7.04	7.24	7.30	7.19	
Water Vapor (H2O), % volume (EPA Method 4)	9.52	9.39	7.61	8.84	
NO Emissions:					
NO, ppmvd	16.6	18.2	17.2	17.3	
NO ₂ , ppmvd	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO	< 0.060	< 0.055	< 0.058	< 0.058	-
NO _x Emissions (calculated as NO ₂):					
NOx, ppmvd	16.5	18.0	17.2	17.2	
NOx, ppmvd @ 15% O_2	11.1	12.1	12.4	11.8	
NOx, lb/hr	2.09	2.27	2.37	2.24	
NOx, lb/MMBtu	0.0444	0.0483	0.0496	0.0474	0.06
CO Emissions:					
CO, ppmvd	1.55	2.14	4.13	2.61	
CO, ppmvd @ 15% O ₂	1.04	1.44	2.97	1.82	
CO, lb/hr	0.119	0.165	0.347	0.211	
CO, lb/MMBtu	0.00254	0.00351	0.00726	0.00443	0.3
Total Reduced Sulfurs (ASTM 5504):					
TRS as H ₂ S, ppmvd in Fuel	313	289	279	294	
SO ₂ Emissions:					
SO ₂ , ppmvd (calculated)	31.3	28.9	25.7	28.6	300
Methane (CH ₄) Emissions:					
CH ₄ , ppmvd wet (EPA Method 25A)	<10.0	<10.0	<10.0	<10.0	
CH ₄ , ppmvd dry	<11.1	<11.1	<11.1	<11.1	
CH ₄ , lbs/hr	< 0.487	< 0.486	< 0.531	< 0.501	
NMOC Emissions (calculated as CH ₄):	•	1	1	, ,	
NMOC, ppmv wet (EPA Method 25A)	1.57	1.58	1.83	1.66	
NMOC, ppmvd	1.74	1.75	2.02	1.84	
NMOC, ppmvd @ 3% O ₂	3.53	3.56	4.41	3.84	30
NMOC, lb/hr	0.0765	0.0769	0.0971	0.0835	
THC Emissions (reported as CH ₄):	1	1	1	, ,	
THC, ppmv wet $(Sum\ NMOC + CH_4)$	<11.6	<11.6	<11.8	<11.7	
THC, ppmvd	<12.8	<12.8	<13.1	<12.9	
THC, lb/hr	< 0.563	< 0.563	< 0.628	< 0.585	
Inlet Hydrocarbons (calculated as CH ₄):	1	T	T -	· · · · · · · · · · · · · · · · · · ·	
Inlet NMOC (EPA Method 25C)	1,396	1,700	2,020	1,705	
Inlet NMOC, lb/hr	6.15	7.48	8.93	7.52	*
NMOC Destruction Efficiency, %	98.76%	98.97%	98.91%	98.88%	>98%*
Inlet CH ₄ , ppmvd	439,000	438,000	444,000	440,333	
Inlet CH ₄ , lb/hr	1,934	1,928	1,963	1,942	
CH ₄ Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	>99%
Inlet THC, ppmvd	440,396	439,700	446,020	442,039	
Inlet THC, lb/hr	1,941	1,935	1,972	1,949	
THC Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	

^{*} NMOC emission limits are 30 ppmvd @ 3% O_2 or destruction efficiency >98%

WHERE,

ppmvd = parts per million concentration by volume expressed on a dry gas basis

lb/hr = pound per hour emission rate

Tstd. = standard temperature (${}^{\circ}R = {}^{\circ}F+460$)

MW = molecular weight

DSCFM = dry standard cubic foot per minute

 NO_X = oxides of nitrogen, reported as NO_2 (MW = 46)

CO = carbon monoxide (MW = 28)

 CH_4 = methane (MW = 16)

THC = total hydrocarbons reported as CH $_{\! 4}$ (MW = 16)

 NMOC = non-methane organic compounds reported as $\mathrm{CH_4}$ (MW = 16)

CALCULATIONS,

ppm @ $15\% O_2 = ppm \cdot 5.9 / (20.9 - \%O_2)$

ppm @ 3% $O_2 = ppm \cdot 17.9 / (20.9 - \%O_2)$

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

 $lb/day = lb/hr \cdot 24$

lb/MMBtu = Fd · MW · ppm · 2.59E-9 · 20.9/(20.9 - $^{\circ}$ C₂)

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

<VALUE = 2% Value of Analyzer Range

TRS = total reduced sulfurs, reported as sulfur dioxide (SO $_{2}\!)$

TABLE #2 Landfill Gas Characterization

Kirby Canyon Recycling & Disposal Facility Flare A-12 Condensate - ON

Parameter	Units	Run 1	Run 2	Run 3	Average Results
Test Date		2/23/22	2/23/22	2/23/22	-
Acrylonitrile	ppb	<294	<334	<330	<319
Bromodichloromethane	ppb	<73.4	<83.6	<82.6	<79.9
Carbon Tetrachloride	ppb	<73.4	<83.6	<82.6	<79.9
Chlorobenzene	ppb	159	171	190	173
Chlorodifluoromethane	ppb	<73.4	<83.6	<82.6	<79.9
Chloromethane	ppb	<73.4	<83.6	<82.6	<79.9
Chloroethane	ppb	<73.4	<83.6	169	<108.7
Chloroform	ppb	<73.4	<83.6	<82.6	<79.9
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<73.4	<83.6	<82.6	<79.9
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<73.4	<83.6	<82.6	<79.9
1,2 Dichloroethane (Ethylene Dichloride)	ppb	175	197	198	190
1,2 Dichloropropane	ppb	<73.4	<83.6	<82.6	<79.9
1,4 Dichlorobenzene	ppb	373	513	555	480
Dichlorodifluoromethane	ppb	101	107	114	107
Dichlorofluoromethane	ppb	<73.4	<83.6	<82.6	<79.9
1,4 Dioxane	ppb				
Ethanol	ppb	47,000	59,200	76,300	60,833
Ethylbenzene	ppb	7,050	8,090	8,670	7,937
Ethlyene Dibromide (1,2 Dibromoethane)	ppb	<73.4	<83.6	<82.6	<79.9
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	<73.4	<83.6	<82.6	<79.9
Hexane	ppb	<73.4	<83.6	<82.6	<79.9
Isopropyl Alcohol (IPA)	ppb	13,400	16,500	22,600	17,500
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	9,830	10,600	11,000	10,477
Methylene Chloride	ppb	<147	<167	<165	<160
Methyl isobutyl ketone (MiBK)	ppb	1,060	1,190	1,310	1,187
Perchloroethylene (Tetrachloroethylene)	ppb	82.2	95.3	84.3	87.3
1,1,1 Trichlororethane	ppb	<73.4	<83.6	<82.6	<79.9
1,1,2,2 Tetrachloroethane	ppb	<73.4	<83.6	<82.6	<79.9
trans-1,2-Dichloroethane	ppb	<73.4	<83.6	<82.6	<79.9
Trichloroethylene (Trichloroethene)	ppb	<73.4	<83.6	<82.6	<79.9
Vinyl Chloride	ppb	<73.4	<83.6	<82.6	<79.9
Xylenes	ppb	12,000	14,040	14,880	13,640
Ethane	ppm	<3.7	<4.2	<4.1	<4.0
Propane	ppm	13.2	12.8	13.0	13.0
Butane	ppm	7.77	7.40	7.49	7.55
Pentane	ppm	15.6	16.6	19.2	17.1
Carbon Disulfide	ppm	0.123	0.134	0.149	0.135
Carbonyl Sulfide (COS/SO ₂)	ppm	0.352	0.417	0.317	0.362
Dimethyl Sulfide	ppm	2.27	2.28	2.81	2.45
Ethyl Mercaptan	ppm	0.106	0.200	0.200	0.169
Methyl Mercaptan	ppm	3.60	3.844	4.34	3.93
Hydrogen Sulfide (H ₂ S)	ppm	304	279	268	284
Total Reduced Sulfurs as H ₂ S	ppm	313	289	279	294

TABLE #3

Kirby Canyon Recycling & Disposal Facility Flare A-12

Condensate - OFF

Parameter	Run 1	Run 2	Run 3	Average	Permit
Test Date	2/23/22	2/23/22	2/23/22	Results	Limits
Test Time	1157-1237	1252-1327	1342-1420		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F	1,533	1,533	1,533	1,533	
Fuel:	,	,	,	,	
Condensate Injection, gpm	0.00	0.00	0.00	0.00	
Fuel Flow Rate, SCFM	1,785	1,784	1,787	1,785	
Fuel Heat Input, MMBtu/hr	48.6	47.5	48.7	48.3	
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	19,827	19,770	20,280	19,959	
Oxygen (O2), % volume dry	12.8	13.0	13.0	12.9	
Carbon Dioxide (CO ₂), % volume dry	6.90	7.15	7.06	7.04	
Water Vapor (H ₂ O), % volume (EPA Method 4)	6.78	7.53	5.17	6.49	
NO Emissions:					
NO, ppmvd	13.6	13.7	13.6	13.6	
NO ₂ , ppmvd	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO	< 0.073	< 0.073	< 0.074	< 0.073	
NO _x Emissions (calculated as NO ₂):		•	•		
NOx, ppmvd	13.6	13.6	13.5	13.5	
NOx, ppmvd @ 15% O ₂	9.86	10.1	10.0	10.0	
NOx, lb/hr	1.92	1.92	1.95	1.93	
NOx, lb/MMBtu	0.0396	0.0404	0.0401	0.0400	0.06
CO Emissions:					
CO, ppmvd	4.4	2.8	3.1	3.4	
CO, ppmvd @ 15% O ₂	3.2	2.1	2.3	2.5	
CO, lb/hr	0.38	0.24	0.27	0.30	
CO, lb/MMBtu	0.0078	0.0050	0.0056	0.0061	0.30
Total Reduced Sulfurs (ASTM 5504):					
TRS as H ₂ S, ppmvd in Fuel	276	228	285	263	
SO ₂ Emissions:					
SO ₂ , ppmvd (calculated)	24.8	20.6	25.1	23.5	300
Methane (CH ₄) Emissions:					
CH ₄ , ppmvd wet (EPA Method 25A)	<10.0	<10.0	<10.0	<10.0	
CH ₄ , ppmvd dry	<10.7	<10.7	<10.7	<10.7	
CH ₄ , lbs/hr	< 0.49	< 0.49	< 0.50	< 0.50	
NMOC Emissions (calculated as CH ₄):					
NMOC, ppmv wet (EPA Method 25A)	1.95	1.89	1.75	1.86	
NMOC, ppmvd	2.09	2.03	1.88	2.00	
NMOC, ppmvd @ 3% O ₂	4.30	4.26	3.95	4.17	30*
NMOC, lb/hr	0.096	0.093	0.088	0.092	
THC Emissions (calculated as CH ₄):					
THC, ppmv wet (Sum NMOC + CH ₄)	<12.0	<11.9	<11.8	<11.9	
THC, ppmvd	<12.8	<12.9	<12.4	<12.7	
THC, lb/hr	< 0.63	< 0.63	< 0.62	< 0.63	
Inlet Hydrocarbons (calculated as CH ₄):					
Inlet TNMOC (EPA Method 25C)	2,119	2,124	1,987	2,077	
Inlet NMOC, lb/hr	9.390	9.406	8.814	9.203	
NMOC Destruction Efficiency, %	98.98%	99.01%	99.00%	99.00%	>98%*
Inlet CH ₄ , ppmvd	450,000	439,000	450,000	446,333	
Inlet CH ₄ , lb/hr	1,994	1,944	1,996	1,978	
CH ₄ Destruction Efficiency, %	>99.98%	>99.97%	>99.97%	>99.97%	>99%
Inlet THC, ppmvd	452,119	441,124	451,987	448,410	
Inlet THC, lb/hr	2,003	1,954	2,005	1,987	
THC Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	

^{*} NMOC emission limits are 30 ppmvd @ 3% O_2 or destruction efficiency >98%

WHERE,

ppmvd = parts per million concentration by volume expressed on a dry gas basis

lb/hr = pound per hour emission rate

 $Tstd. = standard\ temperature\ (°R = °F+460)$ $MW = molecular\ weight$

DSCFM = dry standard cubic foot per minute

 $\mathrm{NO_X}$ = oxides of nitrogen, reported as $\mathrm{NO_2}$ (MW = 46)

CO = carbon monoxide (MW = 28)

 CH_4 = methane (MW = 16)

THC = total hydrocarbons reported as $\mathrm{CH_{4}}\ (\mathrm{MW}=16)$

NMOC = non-methane organic compounds reported as CH_4 (MW = 16)

CALCULATIONS,

ppm @ 15% $\mathrm{O_2}$ = ppm \cdot 5.9 / (20.9 - %O_2)

ppm @ $3\% O_2 = ppm \cdot 17.9 / (20.9 - \%O_2)$

 $lb/hr = ppm \cdot 8.223 \text{ E-05} \cdot DSCFM \cdot MW / Tstd. ^{\circ}R$

 $lb/day = lb/hr \cdot 24$

$$\begin{split} lb/MMBtu = Fd \cdot MW \cdot ppm \cdot 2.59E\text{-}9 \cdot 20.9/(20.9 \text{-} \%O_2) \\ Destruction &\ Efficiency = (inlet, lb/hr-outlet, lb/hr) \ / &\ inlet, lb/hr \end{split}$$

<VALUE = 2% Value of Analyzer Range

TRS = total reduced sulfurs, reported as sulfur dioxide (SO $_{\! 2}\!)$

TABLE #4 Landfill Gas Characterization

Kirby Canyon Recycling & Disposal Facility Flare A-12 Condensate - OFF

Parameter	Units	Run 4	Run 5	Run 6	Average Results
Test Date		2/23/22	2/23/22	2/23/22	-
Acrylonitrile	ppb	<291	<342	<340	<324
Bromodichloromethane	ppb	<72.8	<85.6	<85.0	<81.1
Carbon Tetrachloride	ppb	<72.8	<85.6	<85.0	<81.1
Chlorobenzene	ppb	163	176	189	176
Chlorodifluoromethane	ppb	<72.8	<85.6	<85.0	<81.1
Chloromethane	ppb	<72.8	<85.6	<85.0	<81.1
Chloroethane	ppb	<72.8	<85.6	<85.0	<81.1
Chloroform	ppb	<72.8	<85.6	<85.0	<81.1
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<72.8	<85.6	<85.0	<81.1
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<72.8	<85.6	<85.0	<81.1
1,2 Dichloroethane (Ethylene Dichloride)	ppb	182	219	197	199
1,2 Dichloropropane	ppb	<72.8	<85.6	<85.0	<81.1
1,4 Dichlorobenzene	ppb	444	582	585	537
Dichlorodifluoromethane	ppb	105	118	117	113
Dichlorofluoromethane	ppb	<72.8	<85.6	<85.0	<81.1
Ethanol	ppb	84,900	88,900	76,800	83,533
Ethylbenzene	ppb	7,480	8,400	8,540	8,140
Ethlyene Dibromide (1,2 Dibromoethane)	ppb	<72.8	<85.6	<85.0	<81.1
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	<72.8	<85.6	<85.0	<81.1
Hexane	ppb	<72.8	<85.6	<85.0	<81.1
Isopropyl Alcohol (IPA)	ppb	24,400	23,900	21,800	23,367
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	11,100	10,200	10,400	10,567
Methylene Chloride	ppb	<146	<171	<170	<162
Methyl isobutyl ketone (MiBK)	ppb	1,120	1,190	1,220	1,177
Perchloroethylene (Tetrachloroethylene)	ppb	85.9	94.2	90.1	90.1
1,1,1 Trichlororethane	ppb	<72.8	<85.6	<85.0	<81.1
1,1,2,2 Tetrachloroethane	ppb	<72.8	<85.6	<85.0	<81.1
trans-1,2-Dichloroethane	ppb	<72.8	<85.6	<85.0	<81.1
Trichloroethylene (Trichloroethene)	ppb	<72.8	<85.6	<85.0	<85.6
Vinyl Chloride	ppb	<72.8	<85.6	<85.0	<81.1
Xylenes	ppb	12,680	14,510	14,780	13,990
Ethane	ppm	<3.6	<4.3	<4.3	<4.1
Propane	ppm	13.0	12.65	13.0	12.9
Butane	ppm	7.45	7.67	7.23	7.45
Pentane	ppm	19.2	20.8	18.9	19.6
Carbon Disulfide	ppm	0.105	0.110	0.121	0.112
Carbonyl Sulfide (COS/SO ₂)	ppm	0.303	0.336	0.242	0.294
Dimethyl Sulfide	ppm	2.11	1.99	2.03	2.04
Ethyl Mercaptan	ppm	0.160	0.168	0.146	0.158
Methyl Mercaptan	ppm	3.73	3.11	3.50	3.45
Hydrogen Sulfide (H ₂ S)	ppm	267	220	276	254
Total Reduced Sulfurs as H ₂ S	ppm	276	228	285	263

APPENDIX P

A-12 FLARE 12-MONTH SULFUR DIOXIDE EMISSIONS LOG

12-MONTH CONSECUTIVE SOx Emission Rate (Tons/Year) :2022 Kirby Canyon Recycling & Disposal Facility

Plant #1812, Condition 1437 Item 20

Month	SO ₂ (Tons/Month)	SO ₂ (12- Months Tons)
January-22	2.1	27.2
February-22	2.0	27.2
March-22	2.3	27.4
April-22	1.9	27.0
May-22	1.8	26.5
June-22	1.7	25.7
July-22	1.6	24.9
August-22	1.6	23.9
September-22	1.6	23.2
October-22	1.6	22.5
November-22	1.5	21.8
December-22	1.6	21.4

Pursuant to Title V Permit A1812, Condition Number 25301 Part 20, the Sulfur dioxide emissions from Flare A-12 shall not exceed 300 ppmv of SO2 and sulfur dioxide emissions from A-12 shall not exceed 94.9 tons per year.

To demonstrate compliance with above limits, the site will conduct annual testing of total TRS at the landfill gas main header. The most recent TRS value will be used to calculate the monthly SO2 emissions in tons.

Appendix P includes table with SO_2 12-month tons during the reporting period. The sulfur dioxide emissions from A-12 did not exceed 94.9 tons per year.