JUNIPER RIDGE LANDFILL

Operated By
NEWSME Landfill Operations, LLC

July 29, 2025

Tanya Hovell
Maine Department of Environmental Protection
Bureau of Air Quality
106 Hogan Road
Bangor, Maine 04401

RE: NEWSME Landfill Operations, LLC
DBA Juniper Ridge Landfill (JRL)
(formerly West Old Town Landfill)
Part 70 Air Emission License A-921-70-F-R
Semiannual Report and Compliance Certification

Dear Ms. Hovell:

Please find enclosed Juniper Ridge Landfill's (JRL's) semiannual report and certification for the period from January 1, 2025 through June 30, 2025. This semiannual report was prepared to comply with JRL's Part 70 Air Emission License (A-921-70-F-R) and United States Environmental Protection Agency (USEPA) requirements in Subpart XXX of the New Source Performance Standards (NSPS) and Subpart AAAA of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

If you should require any additional information regarding the enclosed, please feel free to contact me at (207) 249-8025.

Sincerely,

Jeffrey Pelletier
Environmental Manager
NEWSME Landfill Operations, LLC

Enclosure: Part 70 Air Emission License Semiannual Certification
Semiannual Compliance Data Summary
Semiannual NESHAP Subpart AAAA GCCS Report

cc: USEPA Region 1
Lane Gould, Bureau of General Services, State of Maine
Wayne Boyd, NEWSME Landfill Operations, LLC

2828 Bennoch Road • Old Town, Maine 04468
Tel.: 207-862-4200, ext. 245 • Fax: 207-862-2839

Semiannual Report
Certification Cover Sheet

Facility Name	NEWSME Landfill Operations, LLC DBA Juniper Ridge Landfill
License Number	A-921-70-F-R
Period Covered By Certification	Semiannual: January 1 to June 30, 2025
Total Number of Pages Submitted in Certification (including this cover sheet)	42

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, I believe the information included in the attached document is true, complete, and accurate.

Samuel C. Nicolai, PE
Vice President of Engineering & Compliance
NEWSME Landfill Operations, LLC

7/29/25
Date

SEMIANNUAL AIR LICENSE COMPLIANCE AND PERIODIC MONITORING REPORT FORM

Facility Name Juniper Ridge Landfill **License Number** A-921-70-F-R **From** January 1 to June 30, 2025

Conditions	***Emission Source / Control Device***	***Periodic Monitoring Parameter***	***Monitoring Frequency***	***Limit*** (From license)	***Summary***
(1)	Allow Access to Site for Authorized Personnel	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(2)	New / Amended License Prior to Construction or Modification	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(3)	Establish BMP for Fugitive PM	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(4)	Annual Air License Fee	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(5)	Maintain and Operate Emission Units to Minimize Emissions	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(6)	Records Retention for Six Years	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(7)	Comply with Terms and Conditions of the License	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(8)	Perform Stack Testing within 60 Days of Notification	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(9)	Emissions in Excess of Applicable Standards	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(10)	Maintain Records of Deviations from License	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(11)	Determination of Licensee's Compliance Status	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(12)	Submission of Semiannual Reports of Monitoring	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance

SEMIANNUAL AIR LICENSE COMPLIANCE AND PERIODIC MONITORING REPORT FORM

Facility Name Juniper Ridge Landfill **License Number** A-921-70-F-R **From** January 1 to June 30, 2025

Conditions	***Emission Source / Control Device***	***Periodic Monitoring Parameter***	***Monitoring Frequency***	***Limit*** (From license)	***Summary***
(13)	Submission of Annual Compliance Certification	N/A	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(14)(A)	Solid Waste Landfill Operate to control TRS	Design with cover materials to control moisture and gas	N/A	LFG collection system design criteria	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(14)(B)	Solid Waste Landfill Flares	#2 & #3 shall not operate when #4 is. Hours of operation for #2 & #3	As occurs	100 hours per calendar year for #2 and #3	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(14)(C)	Solid Waste Landfill Flare #4	The top of Flare #4 shall be at least 265 feet above sea level at its location on the southeast end of the facility.	N/A	LFG collection system design criteria	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(14)(D)	Solid Waste Landfill Flares	Short-term Emission Limits	Monthly	lb/hr limits for criteria pollutants and opacity limit	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(14)(E)	Solid Waste Landfill Annual Emissions	Tons-per-12-months emissions for SO2, VOC, and HAPs	Monthly	Tons-per-12-months limits for SO2, VOC, and HAPs	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(15)(A)	Control Technology for sulfur	12-month average concentration of TRS in LFG	Monthly	1,000 ppmv	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(15)(B)	Control Technology for sulfur	Monthly TRS sampling using DEP-approved test method (e.g., lab analysis of grab samples)	Monthly	SO2 lb/hr and tpy limits and the TRS ppmv limit	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(15)(C)	Control Technology for sulfur	LFG flow, H2S sampling with tubes, downtime, bypass, propane use, calibration of flow meters	Morning and afternoon two days per week	Used as an operational tool and not for compliance with numerical limits	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(15)(D)	Control Technology for sulfur	Compliance Assurance Monitoring (CAM)	Monthly TRS sampling [see (15)(B)] and monthly flow totals	SO2 lb/hr and tpy limits and the TRS ppmv limit	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(15)(E)	Control Technology for sulfur	Uptime	Continuous (i.e., every 15-minute) flow readings	95% uptime for all sulfur control equipment on a 12-month rolling total basis	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(16)(A)	NSPS Subpart XXX and NESHAP Subpart AAAA	Operate GCCS and route gas to flare or RNG plant	Continuous for LFG flow and flare temperature	Operational Requirement	☒ No exceedances ☒ No deviations ☒ Continuous compliance

SEMIANNUAL AIR LICENSE COMPLIANCE AND PERIODIC MONITORING REPORT FORM

Facility Name Juniper Ridge Landfill **License Number** A-921-70-F-R **From** January 1 to June 30, 2025

Conditions	***Emission Source / Control Device***	***Periodic Monitoring Parameter***	***Monitoring Frequency***	***Limit*** (From license)	***Summary***
(16)(B)	Follow Operational Standards from NESHAP Subpart AAAA (e.g., temperature limit = 145 °F)	Wellhead pressure and temperature, methane emissions from landfill surface, operate control system, close valves within an hour of shutdown	Monthly for pressure and temperature, quarterly for methane emissions, continuous for control system operation	Negative pressure or HOV, 145 °F or HOV, 500 ppm methane, one hour to close valves/stop venting after shutdown	☐ No exceedances ☒ No deviations ☒ Continuous compliance Exceedances were resolved within the timeframe allowed by NESHAP Subpart AAAA (see Table A-1).
(16)(C)	Follow NESHAP Subpart AAAA Monitoring Requirements	Wellhead pressure, oxygen, and temperature, enhanced temperature monitoring for exceedances, methane emissions from landfill surface, cover integrity checks, control system flow and flare temperature	Monthly for pressure, oxygen, temperature, and cover integrity, quarterly for methane emissions, continuous for control system flow and flare temperature	Negative pressure or HOV, 145 °F or HOV, 500 ppm methane	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(16)(D)	NESHAP Subpart AAAA Notifications and Reports	90 days before expanding into area not covered by design plan, Initial Performance Test for the Flare, Semi-Annual Reports, Electronic submission of reports; Notification within 24 hours for wellhead gas temperature of 170 °F or more.	Semi-Annual reporting and additional one-time reporting	170 °F wellhead temperature requires 24-hour notification to DEP	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(16)(E)	NSPS and NESHAP Records	Design Capacity Report and waste acceptance, NESHAP Subpart AAAA startup date (1/6/21), control system flow, flare temperature, GCCS downtimes and startup times, control device failures, maps for existing and planned GCCS, monitoring exceedances, enhance temperature monitoring, email transmissions of 24-hr 170 °F reports, Root cause analysis for exceedances that take more than 15-days to correct, other NESHAP Subpart AAAA monitoring	Continuous for control system flow and flare temperature and additional recordkeeping requirements	Negative pressure or HOV, 145 °F or HOV, 500 ppm methane, 170 °F wellhead temperature requires 24-hour notification to DEP	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(17)(A), (B), and (C)	Generator #1 Fuel and Emission Limits	Operate with distillate fuel with sulfur limit of 0.0015% and within emission limits	Fuel deliveries as needed, emissions reported annually	Limits for criteria pollutants	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(17)(D)	Generator #1 Visible Emissions	Log startups, operate in accordance with manufacturer's instructions and good air	Log each startup date, time, and duration	20% Opacity except for startup	☒ No exceedances ☒ No deviations ☒ Continuous compliance

SEMIANNUAL AIR LICENSE COMPLIANCE AND PERIODIC MONITORING REPORT FORM

Facility Name Juniper Ridge Landfill **License Number** A-921-70-F-R **From** January 1 to June 30, 2025

Conditions	***Emission Source / Control Device***	***Periodic Monitoring Parameter***	***Monitoring Frequency***	***Limit*** (From license)	***Summary***
		pollution practices, less than 30 minutes to startup			
(17)(E)	Generator #1 NESHAP Subpart ZZZZ	a. Change the oil and filter b. Inspect the air cleaner; and c. Inspect the hoses and belts. Use oil analysis program as needed Non-resettable hour meter 100 hour/year for testing 30 minutes for startup	Oil, oil filter, hoses and belts every 500 hours of operation, annually, or as needed. Air cleaner every 1,000 hours of operation, annually, or as needed. Oil analysis as needed.	500 hours for oil, oil filter, hoses and belts, 1,000 hours for air cleaner, 100 hours for testing, 30 minutes for startup.	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(18)	Fugitive Emissions	Visible emissions from a fugitive emission source (including stockpiles and roadways)	5-minute block average basis	20% opacity	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(19)	Parameter Monitor General Requirements	Follow manufacturer recommendations, continuous monitoring, record reliable data	Every 15 minutes for continuous monitoring, at least 3 reading per hour	98% data reliability	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(20)	Compliance Assurance Monitoring (CAM)	Follow CAM Plan for sulfur removal system and coordinate changes to CAM plan with DEP	Continuous monitoring for flow, monthly grab samples for TRS concentrations	SO2 lb/hr and tpy limits	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(21)	Semi-Annual Reporting	Submit to the Bureau of Air Quality semiannual reports which are due on January 31st and July 31st	Semi-Annual Reports	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(22)	Annual Compliance Certification	Submit an annual compliance certification to the Department and EPA by January 31st of each year.	Annual Certifications	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(23)	Annual Emission Statements	Fuel records, TRS data, and hours or operation	Annual reports except for Hazardous Air Pollutants which are reported every three years (e.g., 2023, 2026)	Emission Limits in Air License	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(24)	General Applicable State Regulations	Open Burning, Emergencies, Ambient Air, Dispersion, and Mercury	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance

SEMIANNUAL AIR LICENSE COMPLIANCE AND PERIODIC MONITORING REPORT FORM

Facility Name Juniper Ridge Landfill **License Number** A-921-70-F-R **From** January 1 to June 30, 2025

Conditions	***Emission Source / Control Device***	***Periodic Monitoring Parameter***	***Monitoring Frequency***	***Limit*** (From license)	***Summary***
(25)	Units Containing Ozone Depleting Substances	Standards for recycling and emission reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for motor vehicle air conditioning units in Subpart B. Examples of such units include refrigerators and any size air conditioners that contain CFCs.	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(26)	Asbestos Abatement	Standard for Asbestos Demolition and Renovation	When undertaking Asbestos abatement activities	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(27)	Expiration of a Part 70 license	JRL shall submit a complete Part 70 renewal application at least six but no more than 18 months prior to the expiration of this air license.	Renewal application due between Nov. 24, 2024 and Nov. 24, 2025	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance
(28)	New Source Review (NSR)	JRL is subject to NSR requirements summarized in the license even if the license expires.	N/A	N/A	☒ No exceedances ☒ No deviations ☒ Continuous compliance

1. This form certifies compliance with the May 24, 2021 Part 70 Air License (A-921-70-F-R) for the period from January 1, 2025 through June 30, 2025.

Juniper Ridge Landfill

Semiannual Compliance Data Summary January 1 to June 30, 2025

Month	Date TRS Sample Taken	TRS Samples Average of 3 samples Total Reduced Sulfur (ppm)		LFG Flow on Day of TRS Sampling	Exiting Control Equipment		Total landfill gas flow for the Month				Flares #2 & #3 Runtime	Sulfur Control Equipment Downtime
		Inlet	Outlet	(scfm)	12-Month Average TRS (ppm)	12-Month Total SO_2 (tons/yr)	Scrubbed in the Thiopaq (scf)	Bypass of the Thiopaq (scf)	Flow to Flare #4 (scf)	Flow to Archaea's RNG Facility (scf)	hours	hours
January	01/14/25	6,193	525	2,982	586	76.2	121,755,071	286,175	91,065,207	30,976,038	0	2.8
February	02/11/25	5,535	630	2,766	590	75.5	131,071,937	248,647	93,578,608	37,741,976	0	4.2
March	03/14/25	6,869	563	2,857	599	76.3	130,944,770	0	31,731,688	99,213,081	0	0.0
April	04/08/25	6,140	713	3,029	619	79.2	128,010,766	0	66,160,403	61,850,363	0	0.0
May	05/13/25	6,021	529	3,097	608	78.2	130,099,485	0	90,859,248	39,240,237	0	0.0
June	06/06/25	7,129	829	3,176	610	78.1	131,080,237	0	88,045,903	43,034,334	0	0.0

Notes:

1. The SO_2 emissions estimates include bypass of the Thiopaq sulfur removal system. The sulfur removal system has a 95% uptime requirement.
2. The 12-month total SO_2 permit limit is 449.0 tons/year based on Permit A-921-70-F-R Condition 14E.
3. The 12-month average TRS concentration limit is 1,000 ppmv based on Permit A-921-70-F-R Condition 15A.

Additional Conditions:	Limit
Records of inlet and outlet H2S concentrations are maintained onsite and are available upon request.	No limit listed
Records of control equipment downtime are maintained onsite and are available upon request.	No limit listed
Calibration logs of flow meters are maintained on site and are available upon request.	Once per year

SANBORN HEAD

Semiannual Periodic Monitoring Report
NSPS Subpart XXX and NESHAP Subpart AAAA
Landfill Gas Collection and Control System

FOR PERIOD FROM JANUARY 1 THROUGH JUNE 30, 2025

JUNIPER RIDGE LANDFILL

Old Town, Maine

Prepared for NEWSME Landfill Operations, LLC

File No. 2343.025

July 2025

SANBORN HEAD

Jeffrey Pelletier
Environmental Manager
NEWSME Landfill Operations, LLC
358 Emerson Mill Road
Hampden, Maine 04444

July 29, 2025
File No. 2343.025

Re: NSPS and NESHAP Semiannual Periodic Monitoring Report
Gas Collection and Control System
Juniper Ridge Landfill
Old Town, Maine

Dear Jeff:

On behalf of NEWSME Landfill Operations, LLC (NEWSME), Sanborn, Head & Associates, Inc. (Sanborn Head) prepared the enclosed semiannual periodic monitoring report for the gas collection and control system (GCCS) at the Juniper Ridge Landfill (JRL) in Old Town, Maine as required by Subpart XXX of the New Source Performance Standards (NSPS) and Subpart AAAA of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Please contact us with any questions.

Sincerely
SANBORN, HEAD & ASSOCIATES, INC.

Jeffrey J. Doris
Senior Project Manager

Heather H. Little
Project Director

LMM/JJD/HHL: lmm

Encl. Semiannual Periodic Monitoring Report

cc: Wayne Boyd, NEWSME (electronic copy)
Michael Abbott, NEWSME (electronic copy)
Luigi Pizzuti, NEWSME (electronic copy)
Russell Anderson, NEWSME (electronic copy)
Melissa Moore, NEWSME (electronic copy)

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1.0 INTRODUCTION

On behalf of NEWSME Landfill Operations, LLC (NEWSME), Sanborn, Head & Associates, Inc. (Sanborn Head) prepared this semiannual periodic monitoring report (semiannual report) for the gas collection and control system (GCCS) at the Juniper Ridge Landfill (JRL) in Old Town, Maine. We prepared this report to satisfy the requirements from 40 Code of Federal Regulations (CFR) Part 60 Subpart XXX (the New Source Performance Standards [NSPS] for Municipal Solid Waste [MSW] landfills) and 40 CFR Part 63 Subpart AAAA (the National Emission Standards for Hazardous Air Pollutants [NESHAP] for MSW landfills).

This semiannual report covers the period from January 1 through June 30, 2025.

2.0 SITE DESCRIPTION

JRL is owned by the State of Maine and operated by NEWSME. JRL is located on the western side of Interstate 95 in Old Town, Maine, and is accessible from State Route 16 in Alton, Maine. Under the current license, JRL accepts approximately 2,350 tons per day of construction and demolition debris; residues (ash, front-end process residue [FEPR], and over-sized bulky wastes); bypass MSW; water and wastewater treatment plant sludge; and lesser amounts of miscellaneous non-hazardous wastes.

JRL is located on a 780-acre parcel of land, and the licensed footprint of the landfill is approximately 122 acres. Active filling began in Cell 1 at the site in December 1996. Current landfill operations are in Cells 15 and 16. Cell 15 began accepting waste in August 2023 and Cell 16 began accepting waste in January 2025. Intermediate and intermediate-final cover have been placed in Cells 1 through 14. The licensed capacity of JRL is approximately 19.63 million cubic yards (15.01 million m^3). With a waste compaction density of approximately 0.86 tons of waste per cubic yard, the estimated capacity on a mass basis is approximately 16.9 million tons (15.3 million Mg).

The JRL GCCS, shown in Figure 1, is designed for active collection of landfill gas (LFG) while maintaining anaerobic conditions within the landfill by limiting air intrusion into the waste. The GCCS is monitored using equipment that measures and records the LFG extraction in standard cubic feet per minute (scfm) and the concentration in LFG of methane, oxygen, carbon dioxide, and balance gas (primarily nitrogen) in percent by volume.

The GCCS is regularly expanded by adding gas extraction points and related infrastructure. LFG is managed in Cells 1 through 15 using nearly horizontal sloped gas collection trenches (GCTs) and/or vertical gas extraction wells. GCTs are temporary collectors installed to collect LFG until vertical wells are installed. Vertical wells are installed as needed, including on the outer slopes of the cells as they are filled to final grades. The vacuum applied at each extraction location is adjusted as needed with a manually controlled valve on the extraction location wellhead. The active system contains approximately 158 vertical wells and 87 gas collection trenches installed throughout Cells 1 through 15. LFG is also collected from ten other connections to the leachate and/or condensate collection systems and to additional horizontal collectors to control odors.

The NSPS and NESHAP do not require gas collection in areas where the waste has been in place less than five years, or less than two years for areas that have reached final grade or have been closed. Although not required by its air license, NSPS Subpart XXX, or NESHAP Subpart AAAA, JRL maintains gas collectors and connections to the leachate system and in recently placed waste and uses them as needed to control odors and minimize greenhouse gas emissions. Although these connections are monitored when in use, temperatures greater than 145 degrees Fahrenheit and positive pressure readings are not classified as exceedances of the monitoring standards. (Throughout the report, wellhead gauge pressure of 0 inches of water or greater is referred to as positive pressure).

Cells 15 and 16 are exempt from the NESHAP Subpart AAAA Standards because the age of waste in each cell is less than five years and neither cell has reached final grade. As of the end of the reporting period, JRL is voluntarily collecting gas from Cell 15. Waste placement only began in Cell 16 in January 2025 and there is not yet sufficient gas generation for gas collection.

LFG extraction points are connected to common header pipes that convey the gas to a 106.5 million British thermal units per hour (MMBtu/hr) open flare (Flare No. 4), which the Maine Department of Environmental Protection (Maine DEP) approved in November 2008. Open Flares No. 2 and No. 3 are licensed as backup LFG control devices, and do not operate simultaneously with Flare No. 4.

Ahead of the July 1, 2015 license deadline, JRL began operating a Thiopaq® sulfur treatment system to remove total reduced sulfur (TRS) compounds from LFG prior to combustion to reduce emissions of sulfur dioxide (SO_2).

During the reporting period, the third-party renewable natural gas (RNG) facility operated by Archaea Energy, adjacent to the JRL gas control system, maintained compliance with the thresholds of the Treatment System Monitoring plan. In addition to sulfur removal to a concentration of 1,000 ppmv or less, LFG delivered to the RNG facility is compressed to at least one pound per square inch (1 psi), filtered in a knockout pot filter that maintains a pressure drop of less than 5 psi, and dewatered in a cooler that decreases the temperature of the compressed gas from approximately 200 degrees Fahrenheit (°F) to 130 °F or less.

3.0 SEMIANNUAL REPORT REQUIREMENTS

The semiannual report is required by 40 CFR Part 63.1981(h)(1) through (8) to contain:

1. The number of times that applicable parameters monitored under §63.1958(b), (c), and (d) were exceeded (i.e., limits for wellhead pressure, wellhead temperature, and methane surface emissions) and when the gas collection and control system was not operating under §63.1958(e) (e.g., occasions when one or more valves in the GCCS did not close during a shutdown, and thereby allowed venting of LFG to the atmosphere for an hour or more), including periods of startup, shutdown, or malfunction. For each instance, the date, time, and duration of each exceedance must be reported. For sites with a treatment system for a beneficial use project, the number of times the parameters in the site-specific treatment system plan were exceeded must be included.

2. Description and duration of periods when the gas stream was diverted from the control device or treatment system through a bypass line.
3. Description and duration of periods when the control device or treatment system was not operating.
4. Periods when the collection system was not operating.
5. The location and concentration of each exceedance of the 500-ppm methane concentration as provided in §63.1958(d). The location of each exceedance must be recorded with an accuracy of at least 4 meters and reported in units of latitude and longitude decimal degrees with at least five decimal places.
6. The date of installation and the location of each well or collection system expansion added pursuant to §63.1960(a)(3) and (4), (b), and (c)(4).
7. For any corrective action analysis for which corrective actions are required in §63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.
8. The results of any enhanced monitoring for temperature exceedances.

The semi-annual reports also include the results of monthly landfill cover integrity checks.

4.0 GAS COLLECTION AND CONTROL SYSTEM

4.1 Monitoring

The monitoring required for this report includes the monitoring summarized below for gas extraction points and surface emissions. This section also summarizes the GCCS design and operation to prevent venting of LFG to the atmosphere for an hour or more.

4.1.1 Gas Extraction Point Monitoring

The gas collection wellfield is monitored at least monthly to measure LFG concentrations and the temperature and pressure in the affected wellheads. In areas of the landfill where waste has been in place for at least five years, or areas with final grade and waste in place for at least two years, JRL is required to report gas extraction points with recorded exceedances of the pressure limit (negative gauge pressure, except for areas with geomembrane cover) or temperatures greater than 145° F (or approved alternative). Table A-1 in Appendix A presents the exceedances of the pressure and temperature standards that were recorded during the reporting period.

Operating at the default gas temperature for MSW landfills in NESHAP Subpart AAAA (145° F) has not always been possible at JRL due to the type of waste disposed at the site and the corresponding decomposition temperature. To allow for gas collection with waste decomposition temperatures greater than 145° F, JRL has obtained approval from Maine DEP to operate some gas extraction locations at an alternative operating temperature of 150° F. The HOV approvals are included in Appendix A.

4.1.2 Landfill Surface Monitoring

Landfill surface monitoring scans were performed in general accordance with NSPS Subpart XXX and NESHAP Subpart AAAA requirements to measure the concentration of methane near the surface of the landfill on March 19, 2025 (2025-Q1 scan) and on June 4, 2025 (2025-Q2 scan).

The surface monitoring protocol requires measuring methane surface concentrations within 5 to 10 centimeters (cm; [about 2 to 4 inches]) of the landfill surface while walking at a normal pace around the perimeter of the landfill and along a pattern traversing the landfill at 30-meter (m; approximately 100-foot) intervals.

The walking path for surface monitoring at JRL is included on Figure B in Appendix B. In addition to monitoring along the path shown on the figure, NSPS and NESHAP require surface monitoring in areas with:

- Visible cracks or holes in the landfill cover;
- Visible erosion or water on the landfill surface;
- Visually observed distressed vegetation; and
- Where gas extraction components protrude through the landfill cover system (i.e., where the boots connect to the wells and the lateral collection system piping).

During surface monitoring, JRL personnel or contracted third-party personnel used a flame ionization detector (FID) or equivalent device that complies with the NSPS and NESHAP requirements and that was calibrated according to procedures outlined in United States Environmental Protection Agency (USEPA) Method 21.

There were seven locations during the Q1-2025 initial scan with recorded exceedances of the methane surface concentration standard of 500 ppm. Corrective actions were performed at each of these locations prior to the 10-day scan on March 28, 2025. One location (2025-Q1-1) was still above the 500-ppm threshold. The 20-day scan was performed at this location on April 4, 2025, and it was below the 500-ppm threshold. The 30-day surface emission scan took place on April 17, 2025 and each of the seven initial exceedance locations was below the 500-ppm threshold.

There were seven locations during the Q2-2025 initial scan with recorded exceedances of the 500 ppm standard. Corrective actions were performed at each exceedance prior to the 10-day scan on June 13, 2025. One location (2025-Q2-6) was still above the 500-ppm threshold. Additional corrective actions were performed at this location prior to the 20-day rescan performed on June 20, 2025 and it was below the 500-ppm threshold. The 30-day surface emission scan was performed on July 7, 2025 and each of the seven initial exceedance locations was below the 500-ppm threshold.

Surface scan results for Q1-2025 and Q2-2025 are presented in Appendix B. The results in Appendix B include the location of each exceedance of the 500-ppm methane concentration

standard and the concentration recorded at each exceedance location. For each location, the latitude and longitude are recorded using an instrument with an accuracy of at least four meters and the coordinates are in decimal degrees with at least five decimal places.

4.1.3 Control Device Operation

The GCCS uses a Supervisory Control and Data Acquisition (SCADA) system to monitor the flare temperature and the LFG flow rate to the flare system. The SCADA system records indicate there were no periods exceeding one hour when gas was being delivered to the flare while the flare system was not operating.

During flare shutdowns, the system is designed for the gas flow to the flare system to shut down also. When the flame goes out on the flare, the temperature monitoring system alerts the control system to turn off the blower system. During the reporting period, the system operated as designed to prevent venting of LFG to the atmosphere for an hour or more, including during periods of startup, shutdown, and malfunction.

4.1.4 Treatment System Monitoring

An RNG facility began operating adjacent to the JRL gas control system during 2024. In accordance with JRL's Site-Specific Treatment System Monitoring Plan dated July 25, 2024, the third-party RNG facility operator, Archaea Energy, monitors the treatment system for the LFG delivered to the RNG facility (i.e., the compression pressure, the filtering pressure drop, and the dewatering cooler outlet temperature).

As required by the Site-Specific Treatment System Monitoring Plan, during operation of the RNG plant, the LFG was compressed to at least 1 psi, filtered in a knockout pot filter that maintained a pressure drop of less than 5 psi, and dewatered in a cooler that decreased the compressed LFG temperature to 130 °F or less. Archaea Energy records indicate that there were no exceedances of these site-specific monitoring parameters during the reporting period.

4.2 Landfill Gas Diverted from Control Devices

The LFG collection system is not constructed with a bypass line, and correspondingly, during the reporting period, no LFG was diverted from the control system through a bypass line.

4.3 Flare Downtime

A log of flare downtime is presented in Appendix C as Table C-1. The flare downtime log provides a description and the duration of periods when the flare was not operating.

4.4 RNG Facility Downtime

A log of RNG facility downtime is presented in Appendix C as Table C-2.

4.5 Gas Collection System Downtime

JRL monitors gas collection system runtime and downtime. A Collection System Operating Status Summary is included in Appendix C as Table C-3 and shows the gas collection system downtime for the reporting period. Gas collection system downtime occurs when the flare and the RNG facility are offline simultaneously.

4.6 Landfill Gas Collection System Modifications

An updated Landfill Gas Collection and Control System Plan is provided as Figure 1. The figure shows additions to the gas collection system since the GCCS Design Report was submitted in July 2019. JRL installs gas collection trenches in some areas of the landfill as waste is placed, which allows gas collection to begin ahead of the schedule required by the standards. To increase LFG collection, and to reduce odors from LFG, these collectors may be used intermittently as needed at relatively low flow rates before gas generation allows negative pressure to be maintained.

JRL monitors gas collection points as they are added to the system, including those collectors in areas that cannot sustain continuous methane extraction. For the collectors installed in waste earlier than required, positive pressure is not recorded as an exceedance.

During the reporting period, JRL added two gas wells, seven horizontal gas collectors, and two other collectors. The date of installation and location of each collector added is shown in the table below.

Device ID	Location	Date Added
JCT1526A	Cell 15	2/12/2025
JCT1526B	Cell 15	2/12/2025
JCT1533A	Cell 15	5/21/2025
JRCT1518	Cell 15	5/21/2025
JRCT1524	Cell 15	2/12/2025
JRCT1525	Cell 15	2/12/2025
JRCT1532	Cell 15	5/21/2025
JR-GW129	Cell 12	2/12/2025
JR-GW203	Cell 1	5/21/2025
JROCAP2A	Cell 5	4/25/2025
JROCAP2B	Cell 5	4/25/2025

In addition to monitoring and adjusting gas collection points, JRL completes routine maintenance to improve the quality and quantity of LFG collected from the landfill and to improve monitoring of the LFG collection system, including the removal of damaged gas collectors and raising and/or lowering existing wells as needed. A summary of GCCS improvements completed during the reporting period is included as Table D-1 in Appendix D.

4.7 Exceedances that take longer than 60 days to correct

For exceedances that take longer than 60 days to correct, a root cause analysis statement is required in this report, including a description of the corrective actions and a schedule for actions yet to be implemented.

During the reporting period, as shown in Appendix A, there were no exceedances that took longer than 60 days to correct.

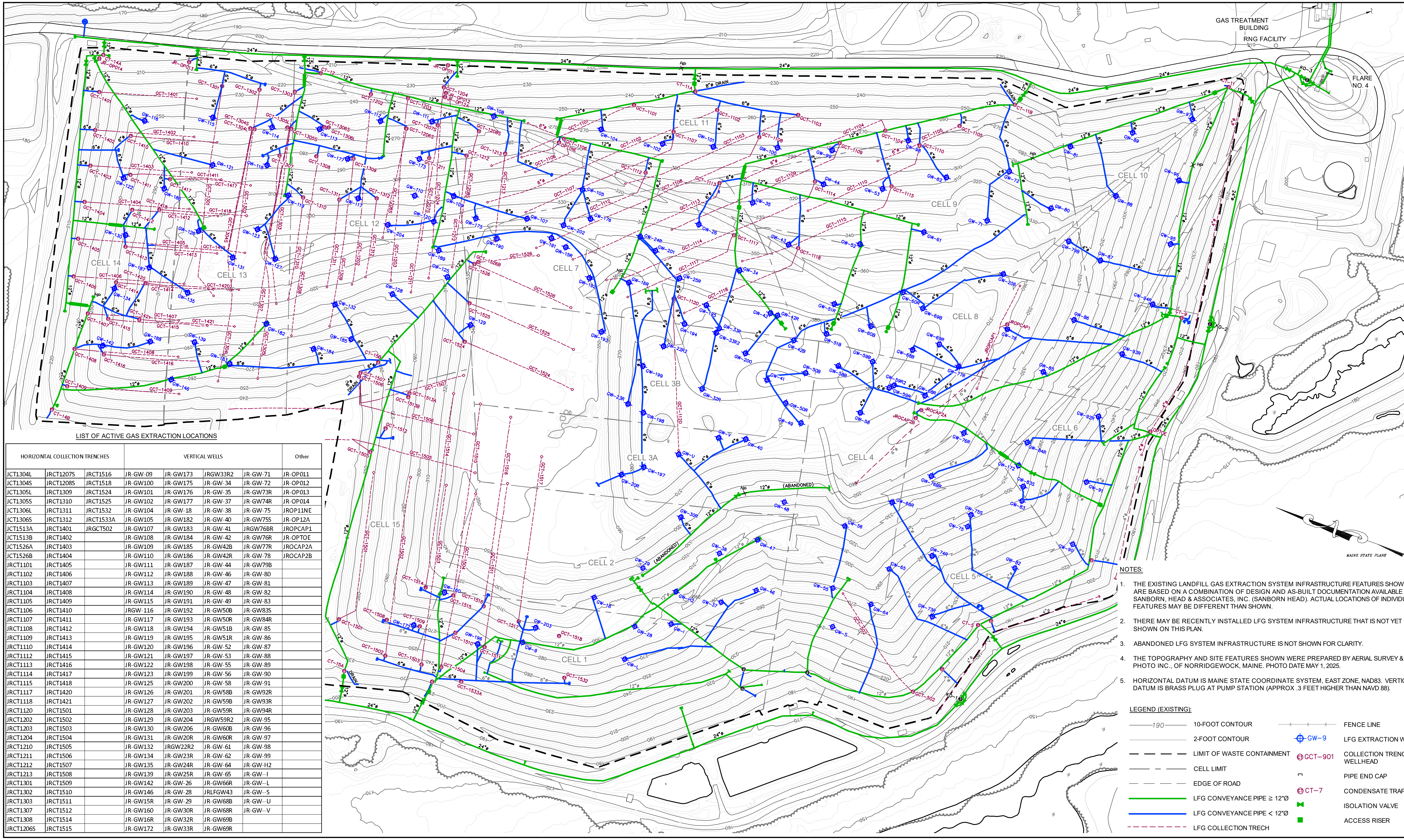
4.8 Enhanced Temperature Monitoring

No enhanced monitoring was needed during the reporting period for unresolved temperature exceedances. There were no temperature exceedances during the reporting period.

4.9 Landfill Cover Integrity

JRL uses geosynthetic membrane cover over portions of the landfill to increase gas collection efficiency, and JRL performs cover repairs and upgrades over the entire landfill cover system as needed to increase gas collection and reduce odors. During the reporting period, JRL performed monthly cover integrity checks and made repairs as needed and as conditions allowed.

Figure



LIST OF ACTIVE GAS EXTRACTION LOCATIONS

HORIZONTAL COLLECTION TRENCHES			VERTICAL WELLS				Other
JCT1304L	JRCT1207S	JRCT1516	JR-GW-09	JR-GW173	JRGW33R2	JR-GW-71	JR-OP011
JCT1304S	JRCT1208S	JRCT1518	JR-GW100	JR-GW175	JR-GW-34	JR-GW-72	JR-OP012
JCT1305L	JRCT1309	JRCT1524	JR-GW101	JR-GW176	JR-GW-35	JR-GW73R	JR-OP013
JCT1305S	JRCT1310	JRCT1525	JR-GW102	JR-GW177	JR-GW-37	JR-GW74R	JR-OP014
JCT1306L	JRCT1311	JRCT1532	JR-GW104	JR-GW-18	JR-GW-38	JR-GW-75	JROP11NE
JCT1306S	JRCT1312	JRCT1533A	JR-GW105	JR-GW182	JR-GW-40	JR-GW75S	JR-OP12A
JCT1513A	JRCT1401	JRGCT502	JR-GW107	JR-GW183	JR-GW-41	JRGW76BR	JROPCAP1
JCT1513B	JRCT1402		JR-GW108	JR-GW184	JR-GW-42	JR-GW76R	JR-OPTOE
JCT1526A	JRCT1403		JR-GW109	JR-GW185	JR-GW42B	JR-GW77R	JROCAP2A
JCT1526B	JRCT1404		JR-GW110	JR-GW186	JR-GW42R	JR-GW-78	JROCAP2B
JRCT1101	JRCT1405		JR-GW111	JR-GW187	JR-GW-44	JR-GW79B	
JRCT1102	JRCT1406		JR-GW112	JR-GW188	JR-GW-46	JR-GW-80	
JRCT1103	JRCT1407		JR-GW113	JR-GW189	JR-GW-47	JR-GW-81	
JRCT1104	JRCT1408		JR-GW114	JR-GW190	JR-GW-48	JR-GW-82	
JRCT1105	JRCT1409		JR-GW115	JR-GW191	JR-GW-49	JR-GW-83	
JRCT1106	JRCT1410		JRGW-116	JR-GW192	JR-GW50B	JR-GW83S	
JRCT1107	JRCT1411		JR-GW117	JR-GW193	JR-GW50R	JR-GW84R	
JRCT1108	JRCT1412		JR-GW118	JR-GW194	JR-GW51B	JR-GW-85	
JRCT1109	JRCT1413		JR-GW119	JR-GW195	JR-GW51R	JR-GW-86	
JRCT1110	JRCT1414		JR-GW120	JR-GW196	JR-GW-52	JR-GW-87	
JRCT1112	JRCT1415		JR-GW121	JR-GW197	JR-GW-53	JR-GW-88	
JRCT1113	JRCT1416		JR-GW122	JR-GW198	JR-GW-55	JR-GW-89	
JRCT1114	JRCT1417		JR-GW123	JR-GW199	JR-GW-56	JR-GW-90	
JRCT1115	JRCT1418		JR-GW125	JR-GW200	JR-GW-58	JR-GW-91	
JRCT1117	JRCT1420		JR-GW126	JR-GW201	JR-GW58B	JR-GW92R	
JRCT1118	JRCT1421		JR-GW127	JR-GW202	JR-GW59B	JR-GW93R	
JRCT1120	JRCT1501		JR-GW128	JR-GW203	JR-GW59R	JR-GW94R	
JRCT1202	JRCT1502		JR-GW129	JR-GW204	JRGW59R2	JR-GW-95	
JRCT1203	JRCT1503		JR-GW130	JR-GW206	JR-GW60B	JR-GW-96	
JRCT1204	JRCT1504		JR-GW131	JR-GW20R	JR-GW60R	JR-GW-97	
JRCT1210	JRCT1505		JR-GW132	JRGW22R2	JR-GW-61	JR-GW-98	
JRCT1211	JRCT1506		JR-GW134	JR-GW23R	JR-GW-62	JR-GW-99	
JRCT1212	JRCT1507		JR-GW135	JR-GW24R	JR-GW-64	JR-GW-H2	
JRCT1213	JRCT1508		JR-GW139	JR-GW25R	JR-GW-65	JR-GW--I	
JRCT1301	JRCT1509		JR-GW142	JR-GW-26	JR-GW66R	JR-GW--L	
JRCT1302	JRCT1510		JR-GW146	JR-GW-28	JRLFGW43	JR-GW--S	
JRCT1303	JRCT1511		JR-GW15R	JR-GW-29	JR-GW68B	JR-GW--U	
JRCT1307	JRCT1512		JR-GW160	JR-GW30R	JR-GW68R	JR-GW--V	
JRCT1308	JRCT1514		JR-GW16R	JR-GW32R	JR-GW69B		
JRCT1206S	JRCT1515		JR-GW172	JR-GW33R	JR-GW69R		

NOTES:

1. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM INFRASTRUCTURE FEATURES SHOWN ARE BASED ON A COMBINATION OF DESIGN AND AS-BUILT DOCUMENTATION AVAILABLE TO SANBORN, HEAD & ASSOCIATES, INC. (SANBORN HEAD). ACTUAL LOCATIONS OF INDIVIDUAL FEATURES MAY BE DIFFERENT THAN SHOWN.
2. THERE MAY BE RECENTLY INSTALLED LFG SYSTEM INFRASTRUCTURE THAT IS NOT YET SHOWN ON THIS PLAN.
3. ABANDONED LFG SYSTEM INFRASTRUCTURE IS NOT SHOWN FOR CLARITY.
4. THE TOPOGRAPHY AND SITE FEATURES SHOWN WERE PREPARED BY AERIAL SURVEY & PHOTO INC., OF NORRIDGEWOCK, MAINE. PHOTO DATE MAY 1, 2025.
5. HORIZONTAL DATUM IS MAINE STATE COORDINATE SYSTEM, EAST ZONE, NAD83. VERTICAL DATUM IS BRASS PLUG AT PUMP STATION (APPROX .3 FEET HIGHER THAN NAVD 88).

LEGEND (EXISTING):

- 190 — 10-FOOT CONTOUR
- 2-FOOT CONTOUR
- LIMIT OF WASTE CONTAINMENT
- CELL LIMIT
- EDGE OF ROAD
- LFG CONVEYANCE PIPE ≥ 12"Ø
- LFG CONVEYANCE PIPE < 12"Ø
- LFG COLLECTION TRECH
- FENCE LINE
- GW-9 — LFG EXTRACTION WELL
- GCT-901 — COLLECTION TRENCH WELLHEAD
- PIPE END CAP
- CT-7 — CONDENSATE TRAP
- ISOLATION VALVE
- ACCESS RISER

SANBORN ||| HEAD

GRAPHICAL SCALE

120' 60' 0' 120' 240'

NO.	DATE	DESCRIPTION	BY

DRAWN BY: G. ROUSSEAU / R. CLAY
DESIGNED BY: G. ROUSSEAU / R. CLAY
REVIEWED BY: J. DORIS
PROJECT MGR: J. DORIS
PIC: H. LITTLE
DATE: JULY 2025

JUNIPER RIDGE LANDFILL

OLD TOWN, MAINE

AS-BUILT GAS COLLECTION & CONTROL SYSTEM PLAN

PROJECT NUMBER: 2343.025

FIGURE: 1

Appendix A

Gas Extraction Point Exceedances

Table A-1
Gas Extraction Point Exceedances
Wellfield Monitoring from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Location ID	Start of Exceedances	Pressure Limit (in H2O)	Follow-up Monitoring Date	Initial Static Pressure (in H2O)	Adjusted StaticPressure (in H2O)
JR-GW197	2/12/2025 1:15:00 PM	0	2/12/2025 1:19:00 PM	0.05	-0.09
Exceedance Duration: 0 Days					
JRGW22R2	2/12/2025 1:41:00 PM	0	2/12/2025 1:43:00 PM	0.01	-0.02
Exceedance Duration: 0 Days					
JR-GW176	2/19/2025 2:12:00 PM	0	2/20/2025 8:43:00 AM	0.03	-0.01
Exceedance Duration: 1 Days					
JR-GW201	2/19/2025 2:20:00 PM	0	2/20/2025 8:38:00 AM	0.02	-0.02
Exceedance Duration: 1 Days					
JRCT1124	2/19/2025 2:42:00 PM	0	2/20/2025 11:41:00 AM	0.05	-0.12
Exceedance Duration: 1 Days					
JR-GW-58	2/19/2025 2:45:00 PM	0	2/25/2025 4:28:59 PM	0.03	-0.11
Exceedance Duration: 6 Days					
JRGW59R2	2/19/2025 2:50:00 PM	0	2/19/2025 2:51 PM	0.01	-0.01
Exceedance Duration: 0 Days					
JR-GW24R	3/14/2025 10:59:22 AM	0	3/14/2025 11:00:59 AM	0.07	-0.02
Exceedance Duration: 0 Days					
JR-GW202	3/14/2025 11:09:42 AM	0	3/14/2025 11:12:05 AM	0.02	-0.02
Exceedance Duration: 0 Days					
JR-GW175	3/14/2025 11:36:39 AM	0	3/14/2025 11:38:24 AM	0.1	-0.03
Exceedance Duration: 0 Days					
JR-GW206	4/23/2025 12:38:14 PM	0	4/23/2025 12:41:59 PM	0.02	-0.04
Exceedance Duration: 0 Days					
JR-GW-40	4/23/2025 3:47:42 PM	0	4/23/2025 3:49:47 PM	0.08	-0.03
Exceedance Duration: 0 Days					
JR-GW--V	4/23/2025 3:52:24 PM	0	5/5/2025 1:47:44 PM	0.11	-0.74
Exceedance Duration: 12 Days					
JR-GW--U	4/23/2025 4:00:05 PM	0	5/5/2025 1:44:34 PM	0.12	-0.58
Exceedance Duration: 12 Days					
JR-GW206	5/13/2025 4:33:26 PM	0	5/13/2025 4:35:49 PM	0.03	-0.04
Exceedance Duration: 0 Days					
JR-GW199	6/3/2025 1:17:57 PM	0	6/3/2025 1:20:54 PM	0.11	-0.04
Exceedance Duration: 0 Days					

Location ID	Start of Exceedances	Temperature Limit (in °F)	Follow-up Monitoring Date	Initial Temperature (in °F)	Adjusted Temperature (in °F)
JR-GW-33R	5/13/2025 12:37:51 PM	150	5/13/2025 12:39:19 PM	150.9	148.3
Exceedance Duration: 0 Days					

Note: Exceedances were resolved within the timeframe allowed by NESHAP Subpart AAAA.

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JANET T. MILLS
GOVERNOR

MELANIE LOYZIM
COMMISSIONER

October 9, 2024

Jeffrey Pelletier
NEWSME Landfill Operations, LLC
358 Emerson Mill Rd
Hampden, ME 04444

RE: Update to Gas Collectors with Higher Operating Values (HOVs)

Dear Mr. Pelletier,

This letter is in response to a letter dated September 24, 2024, submitted on behalf of NEWSME Landfill Operations, LLC (NEWSME) by Sanborn Head and Associates, Inc. regarding the Juniper Ridge Landfill (JRL) operated by NEWSME and located in Old Town, Maine. This letter addressed updating this list of landfill gas collectors with higher operating values (HOVs).

On January 6, 2021, JRL became subject to the operational standards contained in *Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014*, 40 C.F.R. Part 60, Subpart XXX, and *National Emission Standards for Hazardous Air Pollutants (NESHAP): Municipal Solid Waste Landfills*, 40 C.F.R. Part 63, Subpart AAAA. As a landfill with a design capacity greater than 2.5 million cubic meters and a non-methane organic compound (NMOC) emission rate greater than 34 megagrams per year, NEWSME is required to install and operate a gas collection and control system (GCCS) at JRL pursuant to the requirements of 40 C.F.R. Part 60, Subpart XXX.

Pursuant to 40 C.F.R. § 60.762(b)(2)(iv) and 40 C.F.R. § 63.1958(c), NEWSME must operate each interior wellhead in the collection system with a landfill gas temperature less than 145 °F. However, NEWSME may establish a higher operating temperature value for a particular well(s) by submitting a request to the Department demonstrating that the elevated temperature neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens.

NEWSME previously requested, and the Department approved, a temperature HOV of 150 °F for the following landfill gas collectors.

Previous Temperature HOV Collectors			
JRGCT508	JR-GW-13	JR-GW-33R	JR-GW-76
JRGCT511	JR-GW-19R	JR-GW-51R	JR-GW-77R
JRGCT711	JR-GW-20R	JR-GW-59R	JR-GW-78
JRGCT1010	JR-GW-23R	JR-GW-70	JR-GW-79
JRGCT1011	JR-GW-30R	JR-GW-75	

NEWSME has since removed gas collectors JRGCT508, JRGCT511, JRGCT711, JR-GW19R, and JR-GW-76 from the site's GCCS because they were no longer viable gas collectors.

In accordance with 40 C.F.R. § 63.1958(c)(2), NEWSME has requested a temperature HOV of 150ºF for the additional landfill gas collectors JR-GW51B, JRGW76BR, JR-GW76R, JR-GW42B, JR-GW-49, JR-GW-53, JR-GW60B, and JR-GW78B.

Supporting data provided with the request included temperature, oxygen, and methane levels for the new landfill gas collectors from January 2024 through September 2024. The oxygen levels for the new landfill gas collector listed above have averaged well below 5% and methane levels were consistently above 40%.

The supporting information presented by NEWSME, indicates that the methanogenic process is still at an anaerobic phase at the higher landfill gas temperatures and no evidence of subsurface landfill fire is present at the site. Therefore, the Department approves NEWSME's request for an operating temperature HOV of 150ºF for landfill gas collectors JR-GW51B, JRGW76BR, JR-GW76R, JR-GW42B, JR-GW-49, JR-GW-53, JR-GW60B, and JR-GW78B. Following is an updated list of landfill gas collectors with approved HOVs of 150 °F.

Current Temperature HOV Collectors			
JRGCT1010	JR-GW33R	JR-GW59R	JR-GW77R
JRGCT1011	JR-GW42B	JR-GW60B	JR-GW-78
JR-GW-13	JR-GW-49	JR-GW-70	JR-GW78B
JRGW20R	JR-GW51B	JR-GW-75	JR-GW-79
JR-GW23R	JR-GW51R	JRGW76BR	
JR-GW30R	JR-GW-53	JR-GW76R	

If you have any questions about this matter, please contact me at (207) 332-1279 or lynn.muzzey@maine.gov.

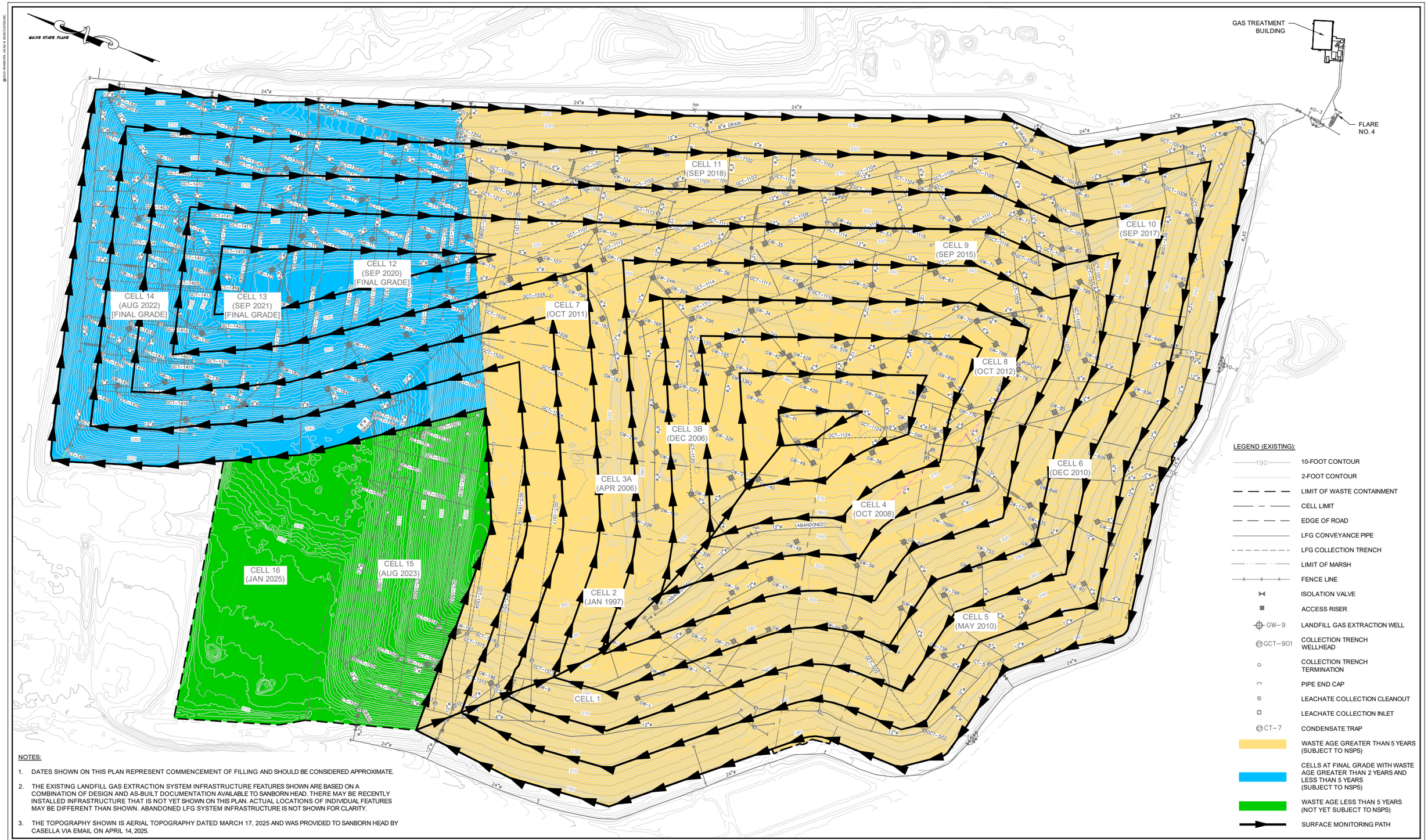
Sincerely,

Lynn Muzzey, P.E.
Air Licensing Section

cc: Jeffery Doris [Sanborn Head]
Tanya Hovell [Maine DEP]
Kathy Tarbuck [Maine DEP]
Karen Knuuti [Maine DEP]
Dominique Dispirito [Maine DEP]

Appendix B

Landfill Surface Monitoring



NOTES:

1. DATES SHOWN ON THIS PLAN REPRESENT COMMENCEMENT OF FILLING AND SHOULD BE CONSIDERED APPROXIMATE.
2. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM INFRASTRUCTURE FEATURES SHOWN ARE BASED ON A COMBINATION OF DESIGN AND AS-BUILT DOCUMENTATION AVAILABLE TO SANBORN HEAD. THERE MAY BE RECENTLY INSTALLED INFRASTRUCTURE THAT IS NOT YET SHOWN ON THIS PLAN. ACTUAL LOCATIONS OF INDIVIDUAL FEATURES MAY BE DIFFERENT THAN SHOWN. ABANDONED LFG SYSTEM INFRASTRUCTURE IS NOT SHOWN FOR CLARITY.
3. THE TOPOGRAPHY SHOWN IS AERIAL TOPOGRAPHY DATED MARCH 17, 2025 AND WAS PROVIDED TO SANBORN HEAD BY CASELLA VIA EMAIL ON APRIL 14, 2025.

SANBORN HEAD

GRAPHICAL SCALE
120' 60' 0 120' 240'

NO.	DATE	DESCRIPTION	BY

DRAWN BY: O. HERNANDEZ / R. CLAY
DESIGNED BY: O. HERNANDEZ / R. CLAY
REVIEWED BY: R. CLAY
PROJECT MGR: J. DORIS
PIC: H. LITTLE
DATE: JUNE 2025

JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

PROJECT NUMBER: 2343.025

SURFACE MONITORING PATH

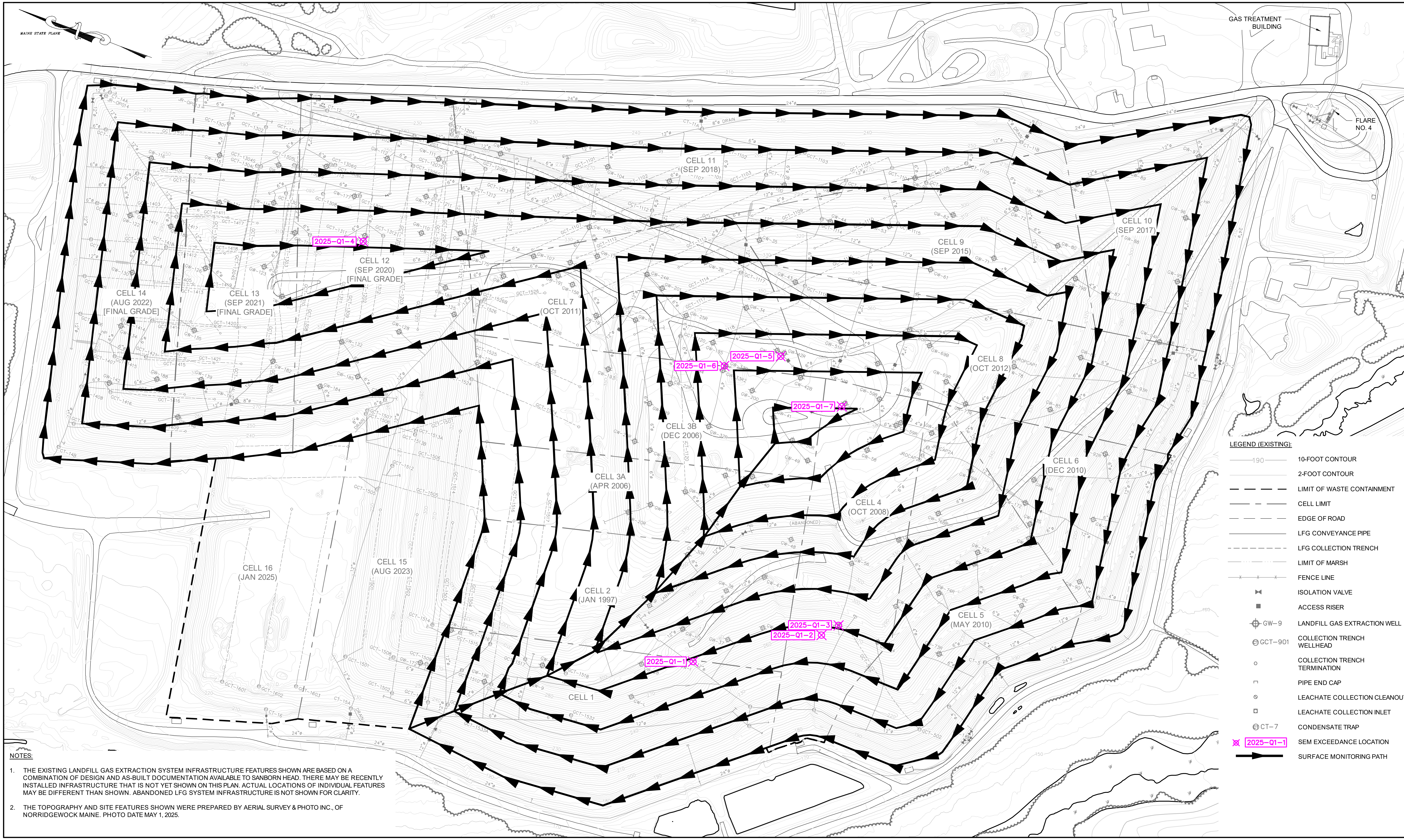
FIGURE: B

Table B-1
1st Quarter Surface Emissions Monitoring
Juniper Ridge Landfill
Old Town, Maine

Name	Northing	Easting	Latitude	Longitude	Initial Reading Date	Initial Reading	Corrective Action	10-day Rescan Date	10-day Rescan Reading	20-day Rescan Date	20-day Rescan Reading	One Month Rescan Date	One Month Rescan Reading	Status
2025-Q1-1	145869.92	282176	44.979316	-68.726001	3/19/2025	10,183	Small hole at top edge of liner. More cover soils needed. Surface cover soils placed.	3/28/2025	619	4/4/2025	2	4/17/2025	0	Resolved
2025-Q1-2	145777.53	282233	44.978486	-68.725277	3/19/2025	1,406	Small liner tear at decommissioned collector cluster. Liner tear repaired.	3/28/2025	5	-	-	4/17/2025	22	Resolved
2025-Q1-3	145767.2	282245	44.978393	-68.725118	3/19/2025	3,453	GW55 multiple liner tears. Liner tears repaired.	3/28/2025	12	-	-	4/17/2025	0	Resolved
2025-Q1-4	146245.53	282409	44.982702	-68.723054	3/19/2025	5,662	GW117 small liner tear at well casing. Liner tear repaired.	3/28/2025	102	-	-	4/17/2025	267	Resolved
2025-Q1-5	145888.23	282438	44.979487	-68.722676	3/19/2025	990	GW42R vacuum source needs more cover. More cover soils were added.	3/28/2025	0	-	-	4/17/2025	0	Resolved
2025-Q1-6	145929.24	282415	44.979856	-68.722974	3/19/2025	1,618	GW33R well casing needs more cover. More cover soils were added.	3/28/2025	0	-	-	4/17/2025	0	Resolved
2025-Q1-7	145826.47	282416	44.978931	-68.722951	3/19/2025	599	GW58B well casing needs more cover. Need more cover soils.	3/28/2025	287	-	-	4/17/2025	0	Resolved

Notes:

1. The listed "Initial Reading" exceedance(s) of the methane concentration limit of 500 ppm were detected during the initial surface scan performed on the date noted above.



LEGEND (EXISTING):

- 190 — 10-FOOT CONTOUR
- 2-FOOT CONTOUR
- LIMIT OF WASTE CONTAINMENT
- CELL LIMIT
- EDGE OF ROAD
- LFG CONVEYANCE PIPE
- LFG COLLECTION TRENCH
- LIMIT OF MARSH
- FENCE LINE
- ISOLATION VALVE
- ACCESS RISER
- GW-9 — LANDFILL GAS EXTRACTION WELL
- GCT-901 — COLLECTION TRENCH WELLHEAD
- COLLECTION TRENCH TERMINATION
- PIPE END CAP
- LEACHATE COLLECTION CLEANOUT
- LEACHATE COLLECTION INLET
- CT-7 — CONDENSATE TRAP
- 2025-Q1-1 — SEM EXCEEDANCE LOCATION
- SURFACE MONITORING PATH

NOTES:

1. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM INFRASTRUCTURE FEATURES SHOWN ARE BASED ON A COMBINATION OF DESIGN AND AS-BUILT DOCUMENTATION AVAILABLE TO SANBORN HEAD. THERE MAY BE RECENTLY INSTALLED INFRASTRUCTURE THAT IS NOT YET SHOWN ON THIS PLAN. ACTUAL LOCATIONS OF INDIVIDUAL FEATURES MAY BE DIFFERENT THAN SHOWN. ABANDONED LFG SYSTEM INFRASTRUCTURE IS NOT SHOWN FOR CLARITY.
2. THE TOPOGRAPHY AND SITE FEATURES SHOWN WERE PREPARED BY AERIAL SURVEY & PHOTO INC., OF NORRIDGEWOCK MAINE. PHOTO DATE MAY 1, 2025.

SANBORN HEAD

GRAPHICAL SCALE: 120' 60' 0 120' 240'

NO.	DATE	DESCRIPTION	BY

DRAWN BY: B. CROCKWELL
DESIGNED BY: R. CLAY
REVIEWED BY: R. CLAY
PROJECT MGR: J. DORIS
PIC: H. LITTLE
DATE: JULY 2025

JUNIPER RIDGE LANDFILL

OLD TOWN, MAINE

2025-Q1 SEM EXCEEDANCE LOCATIONS PLAN

PROJECT NUMBER: 2343.025

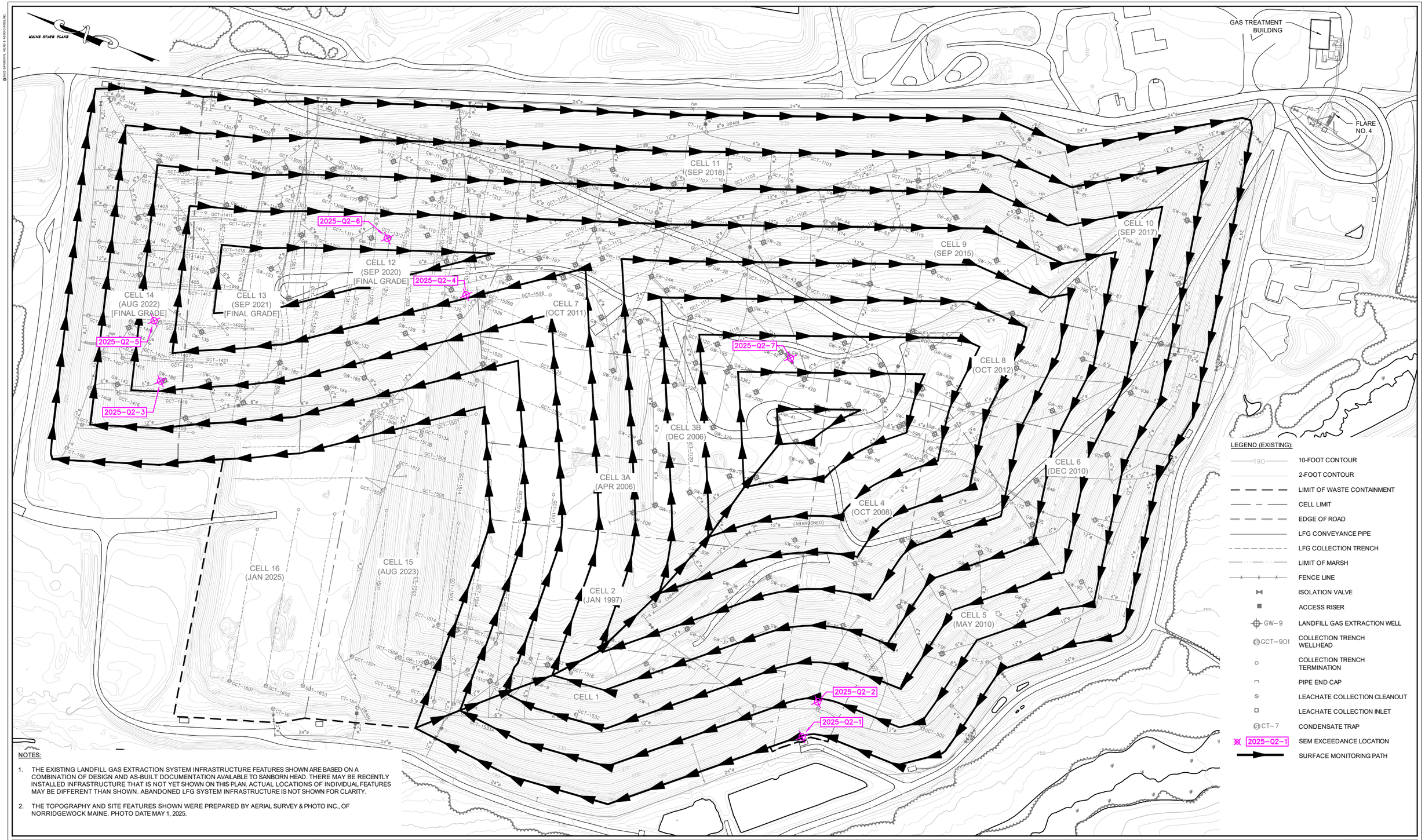
FIGURE: 1

Table B-2
2nd Quarter Surface Emissions Monitoring
Juniper Ridge Landfill
Old Town, Maine

Name	Northing	Easting	Latitude	Longitude	Initial Reading Date	Initial Reading	Corrective Action	10-day Rescan Date	10-day Rescan Reading	20-day Rescan Date	20-day Rescan Reading	One Month Rescan Date	One Month Rescan Reading	Status
2025-Q2-1	145,766.6	282,147.0	44.978385	-68.72637	06/4/25	2639	Pump house 4 liner tear. Liner repaired.	06/13/25	0	-	-	07/7/25	0	Resolved
2025-Q2-2	145,764.4	282,178.0	44.978366	-68.725966	06/4/25	617	Small liner tear. Liner repaired.	06/13/25	0	-	-	07/7/25	0	Resolved
2025-Q2-3	146,370.0	282,242.0	44.983818	-68.725176	06/4/25	818	Small liner tear at GW188. Liner repaired.	06/13/25	44	-	-	07/7/25	5	Resolved
2025-Q2-4	146,155.5	282,397.0	44.981891	-68.723211	06/4/25	902	Liner tear at edge. Liner repaired.	06/13/25	5	-	-	07/7/25	222	Resolved
2025-Q2-5	146,392.2	282,288.0	44.984019	-68.7246	06/4/25	1176	Gct1420 small boot liner tear. Liner repaired.	06/13/25	68	-	-	07/7/25	42	Resolved
2025-Q2-6	146,233.2	282,419.0	44.982591	-68.722935	06/4/25	550	Gct1312 lateral boot torn. Small liner tear needs repair. Requires further liner repair. Liner repaired.	06/13/25	1857	6/20/2025	13	07/7/25	37	Resolved
2025-Q2-7	145,883.6	282,440.0	44.979445	-68.722657	06/4/25	593	Header riser near GW42R. Cover soils added.	06/13/25	0	-	-	07/7/25	0	Resolved

Notes:

1. The listed "Initial Reading" exceedance(s) of the methane concentration limit of 500 ppm were detected during the initial surface scan performed on the date noted above.



NOTES:

1. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM INFRASTRUCTURE FEATURES SHOWN ARE BASED ON A COMBINATION OF DESIGN AND AS-BUILT DOCUMENTATION AVAILABLE TO SANBORN HEAD. THERE MAY BE RECENTLY INSTALLED INFRASTRUCTURE THAT IS NOT YET SHOWN ON THIS PLAN. ACTUAL LOCATIONS OF INDIVIDUAL FEATURES MAY BE DIFFERENT THAN SHOWN. ABANDONED LFG SYSTEM INFRASTRUCTURE IS NOT SHOWN FOR CLARITY.
2. THE TOPOGRAPHY AND SITE FEATURES SHOWN WERE PREPARED BY AERIAL SURVEY & PHOTO INC., OF NORRIDGEWOCK MAINE. PHOTO DATE MAY 1, 2025.

SANBORN HEAD

GRAPHICAL SCALE
120' 60' 0 120' 240'

NO.	DATE	DESCRIPTION	BY

DRAWN BY: B. CROCKWELL
DESIGNED BY: R. CLAY
REVIEWED BY: R. CLAY
PROJECT MGR: J. DORIS
PIC: H. LITTLE
DATE: JULY 2025

JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

2025-Q2 SEM EXCEEDANCE LOCATIONS PLAN

PROJECT NUMBER: 2343.025

FIGURE: B-2

Appendix C

Control System Summary

Table C-1
Flare #4 Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Date	Approximate Time of Shutdown	Approximate Time of Restart	Downtime (hours)	Notes
1/2/25	6:46pm	8:12pm	1.43	Power outage.
1/2/25	10:07pm	10:17pm	0.17	Power restored.
1/5/25	8:25am	9:12am	0.78	Power bump.
1/6/25	6:22am	8:00am	1.63	KOP3 pump repair.
1/6/25	2:29pm	3:56pm	1.45	RNG start up outage.
1/7/25	6:36am	7:00am	0.40	RNG start up outage.
1/7/25	8:05am	8:11am	0.10	RNG start up outage.
1/7/25	8:37am	8:50am	0.22	RNG start up outage.
1/7/25	9:23am	9:30am	0.12	RNG start up outage frozen pressure transmitter.
1/15/25	8:56am	9:02am	0.10	RNG start up outage.
1/15/25	9:54am	9:57am	0.05	RNG start up outage.
1/15/25	10:35am	10:42am	0.12	RNG start up outage.
1/15/25	11:17am	11:52am	0.58	RNG start up outage.
1/16/25	12:49pm	1:08pm	0.32	Power bump.
1/22/25	2:06pm	2:27pm	0.35	Blower 1 VFD programing.
1/29/25	8:46am	10:11am	1.42	KOP1, flame arrestor, safety valve maint.
2/1/25	10:28am	12:02pm	1.57	KOP3 wiring repair.
2/5/25	5:13pm	5:24pm	0.18	Frozen bypass valve.
2/6/25	1:25pm	2:56pm	1.52	Outlet scrubber inspection.
2/7/25	9:35am	10:00am	0.42	Outlet scrubber cleaning.
2/7/25	2:45pm	3:36pm	0.85	Outlet scrubber cleaning.
3/9/25	7:11am	7:22am	0.18	RNG start up issues.
3/9/25	8:33am	8:57am	0.40	RNG start up issues.
4/3/25	6:30am	7:38am	1.13	Water pump faulted, plant down.
4/13/25	1:29pm	2:06pm	0.62	Power bump.
4/22/25	9:55am	10:21am	0.43	Power outage.
4/24/25	12:24pm	12:36pm	0.20	KOP 3 pump replacement.
4/24/25	12:41pm	12:44pm	0.05	KOP 3 pump replacement.
4/28/25	11:33pm	11:53pm	0.33	Power bump.
5/10/25	10:23am	10:32am	0.15	KOP 1 pump change.
5/11/25	6:26am	8:03am	1.62	Power outage.
5/23/25	9:23am	9:32am	0.15	Power outage.
6/3/25	9:17 AM	9:32 AM	0.25	Flame arrestor cleaning.
Total			**19.3**	

Notes:
1. During the reporting period, Flare #4 at Juniper Ridge Landfill (JRL) operated except for the times shown. Backup Flares #2 and #3 were not used during the reporting period.

Table C-2
RNG Plant Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Start of Downtime	End of Downtime	Approximate Downtime (hours)
1/1/25 9:54	1/1/25 9:59	0.08
1/1/25 10:00	1/1/25 10:01	0.02
1/1/25 12:17	1/1/25 12:20	0.05
1/1/25 12:21	1/1/25 12:29	0.13
1/2/25 13:18	1/2/25 13:58	0.67
1/2/25 13:59	1/2/25 14:00	0.02
1/2/25 14:01	1/2/25 14:03	0.03
1/2/25 14:05	1/2/25 14:09	0.07
1/2/25 18:41	1/3/25 7:56	13.25
1/3/25 7:57	1/3/25 8:06	0.15
1/3/25 8:07	1/3/25 9:56	1.82
1/3/25 9:57	1/3/25 12:38	2.68
1/3/25 12:56	1/3/25 12:57	0.02
1/3/25 13:28	1/3/25 13:36	0.13
1/3/25 16:43	1/3/25 16:50	0.12
1/3/25 18:45	1/3/25 20:05	1.33
1/3/25 20:07	1/3/25 20:08	0.02
1/3/25 20:09	1/3/25 20:13	0.07
1/3/25 20:15	1/3/25 20:16	0.02
1/3/25 20:17	1/3/25 20:24	0.12
1/3/25 20:30	1/3/25 20:32	0.03
1/3/25 20:36	1/3/25 20:43	0.12
1/3/25 20:48	1/3/25 21:00	0.20
1/3/25 21:50	1/7/25 7:56	82.10
1/7/25 7:58	1/7/25 8:29	0.52
1/7/25 8:31	1/7/25 9:13	0.70
1/7/25 9:15	1/7/25 9:43	0.47
1/7/25 11:45	1/7/25 11:57	0.20
1/7/25 12:04	1/7/25 12:17	0.22
1/7/25 12:20	1/7/25 12:26	0.10
1/8/25 1:36	1/8/25 5:04	3.47
1/8/25 5:05	1/8/25 5:46	0.68
1/8/25 5:47	1/8/25 6:05	0.30
1/8/25 7:43	1/8/25 7:59	0.27
1/8/25 8:07	1/8/25 8:10	0.05
1/8/25 8:22	1/8/25 8:25	0.05
1/8/25 8:45	1/8/25 8:51	0.10
1/8/25 8:57	1/8/25 9:02	0.08
1/8/25 9:05	1/8/25 9:13	0.13
1/8/25 9:19	1/8/25 9:43	0.40
1/8/25 10:03	1/8/25 10:27	0.40
1/8/25 10:29	1/8/25 10:30	0.02
1/8/25 10:31	1/8/25 10:37	0.10
1/8/25 14:56	1/8/25 15:07	0.18
1/8/25 19:27	1/8/25 20:00	0.55
1/8/25 20:28	1/8/25 20:29	0.02
1/8/25 21:58	1/9/25 7:45	9.78
1/9/25 7:48	1/9/25 7:49	0.02
1/9/25 7:50	1/9/25 7:51	0.02
1/9/25 7:52	1/9/25 8:26	0.57
1/9/25 8:45	1/9/25 9:11	0.43
1/9/25 9:36	1/9/25 9:42	0.10
1/9/25 9:43	1/9/25 10:04	0.35
1/9/25 10:08	1/9/25 10:31	0.38
1/9/25 10:38	1/9/25 11:03	0.42
1/9/25 11:21	1/10/25 11:40	24.32
1/10/25 11:47	1/10/25 11:48	0.02
1/10/25 11:49	1/10/25 14:24	2.58
1/10/25 14:29	1/10/25 14:43	0.23
1/10/25 16:39	1/14/25 10:19	89.67
1/14/25 10:20	1/15/25 12:43	26.38
1/15/25 12:48	1/15/25 12:50	0.03
1/15/25 15:03	1/16/25 13:35	22.53

Table C-2
RNG Plant Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Start of Downtime	End of Downtime	Approximate Downtime (hours)
1/16/25 13:36	1/16/25 13:41	0.08
1/16/25 23:31	1/17/25 10:15	10.73
1/17/25 10:19	1/17/25 10:42	0.38
1/17/25 10:44	1/17/25 10:46	0.03
1/17/25 12:28	1/17/25 12:30	0.03
1/17/25 13:57	1/17/25 13:58	0.02
1/17/25 14:18	1/17/25 14:24	0.10
1/17/25 14:53	1/18/25 9:10	18.28
1/18/25 9:16	1/18/25 9:17	0.02
1/18/25 9:40	1/18/25 9:42	0.03
1/18/25 9:57	1/18/25 10:00	0.05
1/18/25 18:20	1/19/25 12:16	17.93
1/20/25 9:01	1/20/25 9:24	0.38
1/20/25 9:27	1/20/25 9:41	0.23
1/20/25 11:41	1/20/25 12:22	0.68
1/20/25 17:34	1/20/25 17:44	0.17
1/20/25 17:56	1/20/25 18:07	0.18
1/20/25 20:28	1/21/25 10:32	14.07
1/21/25 10:36	1/21/25 11:06	0.50
1/21/25 11:13	1/21/25 11:16	0.05
1/21/25 11:19	1/21/25 11:22	0.05
1/21/25 11:25	1/21/25 11:26	0.02
1/21/25 11:29	1/21/25 11:37	0.13
1/22/25 0:33	1/22/25 14:49	14.27
1/22/25 14:53	1/22/25 14:54	0.02
1/22/25 15:01	1/22/25 15:02	0.02
1/22/25 17:08	1/22/25 17:57	0.82
1/23/25 2:59	1/23/25 9:35	6.60
1/23/25 9:37	1/23/25 9:38	0.02
1/23/25 9:40	1/23/25 9:51	0.18
1/23/25 9:54	1/23/25 10:09	0.25
1/23/25 11:12	1/23/25 12:23	1.18
1/23/25 12:25	1/23/25 12:26	0.02
1/25/25 8:34	1/25/25 9:37	1.05
1/25/25 9:39	1/25/25 9:41	0.03
1/25/25 9:44	1/25/25 11:16	1.53
1/25/25 11:21	1/25/25 11:22	0.02
1/25/25 20:45	1/27/25 9:03	36.30
1/27/25 9:08	1/27/25 9:10	0.03
1/27/25 9:19	1/27/25 9:22	0.05
1/27/25 23:58	1/28/25 0:46	0.80
1/28/25 0:48	1/28/25 0:49	0.02
1/28/25 0:51	1/28/25 0:56	0.08
1/28/25 4:52	1/28/25 5:20	0.47
1/28/25 16:13	1/28/25 19:01	2.80
1/28/25 20:12	1/28/25 20:15	0.05
1/29/25 1:00	1/29/25 11:44	10.73
1/29/25 12:25	1/29/25 13:13	0.80
1/29/25 13:19	1/29/25 13:20	0.02
1/29/25 13:25	1/29/25 13:26	0.02
1/29/25 13:37	1/29/25 13:39	0.03
1/29/25 13:46	1/29/25 14:00	0.23
1/29/25 14:10	1/29/25 14:17	0.12
1/29/25 14:19	1/29/25 14:31	0.20
1/29/25 14:33	1/29/25 15:01	0.47
1/29/25 15:03	1/30/25 10:17	19.23
1/30/25 10:18	1/30/25 10:23	0.08
1/30/25 10:25	1/30/25 10:30	0.08
1/30/25 10:39	1/30/25 13:07	2.47
1/30/25 13:12	1/31/25 8:11	18.98
1/31/25 8:27	1/31/25 9:22	0.92
1/31/25 9:27	1/31/25 14:01	4.57
1/31/25 14:44	1/31/25 14:47	0.05

Table C-2
RNG Plant Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Start of Downtime	End of Downtime	Approximate Downtime (hours)
1/31/25 15:40	2/1/25 13:01	21.35
2/1/25 13:08	2/1/25 13:12	0.07
2/1/25 13:23	2/1/25 13:25	0.03
2/1/25 13:26	2/1/25 13:31	0.08
2/1/25 13:36	2/1/25 13:37	0.02
2/1/25 13:40	2/1/25 13:42	0.03
2/1/25 13:45	2/1/25 13:48	0.05
2/1/25 14:43	2/3/25 7:07	40.40
2/3/25 7:11	2/3/25 7:22	0.18
2/3/25 8:43	2/3/25 8:48	0.08
2/3/25 10:17	2/3/25 12:31	2.23
2/3/25 14:18	2/3/25 14:19	0.02
2/3/25 15:11	2/3/25 15:12	0.02
2/3/25 15:14	2/3/25 15:15	0.02
2/3/25 15:56	2/3/25 15:57	0.02
2/4/25 15:31	2/5/25 10:22	18.85
2/5/25 10:23	2/5/25 11:20	0.95
2/5/25 11:21	2/5/25 11:22	0.02
2/5/25 11:23	2/5/25 11:25	0.03
2/5/25 11:30	2/5/25 11:31	0.02
2/5/25 11:44	2/5/25 11:45	0.02
2/5/25 17:13	2/5/25 18:15	1.03
2/5/25 18:33	2/6/25 10:13	15.67
2/6/25 10:21	2/6/25 10:29	0.13
2/6/25 10:45	2/6/25 10:46	0.02
2/6/25 10:53	2/6/25 10:54	0.02
2/6/25 11:05	2/6/25 11:07	0.03
2/6/25 11:21	2/7/25 16:21	29.00
2/7/25 16:22	2/7/25 16:26	0.07
2/7/25 16:27	2/7/25 16:32	0.08
2/7/25 16:36	2/7/25 16:39	0.05
2/7/25 16:43	2/7/25 16:48	0.08
2/7/25 17:05	2/7/25 17:08	0.05
2/7/25 17:14	2/7/25 17:16	0.03
2/8/25 11:40	2/8/25 13:46	2.10
2/8/25 17:00	2/8/25 17:55	0.92
2/8/25 18:10	2/8/25 18:12	0.03
2/8/25 19:28	2/8/25 19:31	0.05
2/8/25 19:36	2/8/25 19:37	0.02
2/8/25 23:13	2/8/25 23:29	0.27
2/9/25 0:16	2/9/25 0:19	0.05
2/9/25 0:31	2/9/25 0:32	0.02
2/9/25 0:57	2/9/25 8:26	7.48
2/9/25 8:58	2/9/25 9:52	0.90
2/9/25 10:10	2/10/25 8:47	22.62
2/10/25 9:16	2/10/25 10:21	1.08
2/10/25 10:54	2/18/25 15:53	196.98
2/18/25 15:54	2/18/25 15:56	0.03
2/18/25 16:06	2/18/25 16:07	0.02
2/18/25 18:03	2/19/25 8:23	14.33
2/19/25 8:24	2/19/25 8:32	0.13
2/19/25 8:34	2/19/25 8:39	0.08
2/19/25 10:20	2/19/25 10:44	0.40
2/19/25 10:45	2/19/25 10:46	0.02
2/19/25 10:51	2/19/25 11:09	0.30
2/19/25 11:28	2/19/25 12:32	1.07
2/19/25 12:33	2/19/25 12:38	0.08
2/19/25 12:44	2/19/25 12:45	0.02
2/24/25 13:24	2/24/25 13:34	0.17
2/24/25 13:48	2/24/25 13:50	0.03
2/24/25 13:54	2/24/25 13:57	0.05
2/24/25 14:00	2/24/25 14:24	0.40
2/24/25 14:25	2/24/25 14:26	0.02

Table C-2
RNG Plant Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Start of Downtime	End of Downtime	Approximate Downtime (hours)
2/25/25 10:00	2/25/25 10:03	0.05
2/25/25 10:04	2/25/25 10:05	0.02
2/25/25 11:24	2/25/25 12:30	1.10
2/25/25 12:33	2/25/25 12:34	0.02
3/2/25 12:02	3/2/25 12:19	0.28
3/2/25 19:36	3/2/25 20:21	0.75
3/3/25 7:53	3/3/25 13:19	5.43
3/3/25 13:20	3/3/25 13:21	0.02
3/3/25 13:32	3/3/25 13:33	0.02
3/3/25 13:36	3/3/25 13:37	0.02
3/5/25 7:54	3/5/25 9:17	1.38
3/5/25 9:18	3/5/25 9:19	0.02
3/6/25 7:56	3/6/25 8:25	0.48
3/7/25 7:55	3/7/25 8:52	0.95
3/7/25 8:54	3/7/25 8:55	0.02
3/7/25 9:13	3/7/25 9:34	0.35
3/8/25 16:58	3/9/25 7:06	14.13
3/9/25 7:08	3/9/25 8:31	1.38
3/9/25 8:35	3/9/25 9:29	0.90
3/11/25 13:38	3/11/25 14:53	1.25
3/11/25 14:54	3/11/25 14:55	0.02
3/11/25 15:12	3/11/25 15:17	0.08
3/18/25 9:07	3/18/25 9:35	0.47
3/18/25 9:36	3/18/25 9:37	0.02
3/21/25 13:12	3/21/25 13:25	0.22
3/21/25 13:40	3/21/25 13:42	0.03
3/21/25 13:46	3/21/25 13:48	0.03
3/21/25 13:52	3/22/25 7:22	17.50
3/22/25 7:33	3/22/25 7:35	0.03
3/22/25 22:39	3/22/25 23:56	1.28
3/23/25 0:13	3/23/25 0:17	0.07
3/24/25 5:16	3/24/25 8:57	3.68
3/24/25 9:01	3/24/25 9:04	0.05
3/24/25 9:09	3/24/25 9:17	0.13
3/24/25 14:51	3/24/25 18:55	4.07
3/24/25 18:56	3/24/25 18:57	0.02
3/24/25 18:58	3/24/25 19:13	0.25
3/24/25 19:20	3/24/25 19:21	0.02
3/26/25 7:38	3/26/25 13:35	5.95
3/26/25 13:45	3/26/25 14:13	0.47
3/26/25 14:14	3/26/25 14:15	0.02
3/26/25 14:34	3/26/25 14:37	0.05
3/26/25 20:19	3/26/25 22:35	2.27
3/27/25 14:57	3/27/25 15:06	0.15
3/27/25 15:42	3/27/25 15:48	0.10
3/27/25 16:57	3/27/25 17:14	0.28
3/27/25 17:49	3/27/25 17:54	0.08
3/28/25 21:23	3/28/25 22:25	1.03
3/28/25 23:22	3/28/25 23:27	0.08
3/29/25 1:53	3/29/25 1:56	0.05
3/29/25 2:16	3/29/25 2:18	0.03
3/31/25 10:36	3/31/25 12:19	1.72
3/31/25 13:27	3/31/25 14:14	0.78
3/31/25 14:16	3/31/25 14:17	0.02
3/31/25 18:41	3/31/25 19:23	0.70
4/2/25 0:03	4/2/25 3:04	3.02
4/2/25 3:14	4/2/25 3:15	0.02
4/2/25 4:57	4/2/25 5:36	0.65
4/2/25 11:38	4/2/25 11:39	0.02
4/2/25 13:13	4/2/25 14:33	1.33
4/2/25 14:36	4/2/25 14:37	0.02
4/2/25 15:52	4/9/25 10:15	162.38
4/9/25 10:16	4/9/25 10:34	0.30

Table C-2
RNG Plant Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Start of Downtime	End of Downtime	Approximate Downtime (hours)
4/9/25 10:36	4/9/25 10:53	0.28
4/9/25 10:54	4/9/25 11:04	0.17
4/9/25 11:05	4/9/25 11:23	0.30
4/9/25 11:24	4/9/25 11:51	0.45
4/9/25 12:16	4/9/25 12:18	0.03
4/10/25 2:22	4/10/25 2:54	0.53
4/10/25 3:46	4/10/25 3:49	0.05
4/10/25 23:55	4/11/25 0:48	0.88
4/11/25 1:55	4/11/25 2:11	0.27
4/11/25 7:57	4/11/25 8:24	0.45
4/11/25 8:25	4/11/25 9:00	0.58
4/11/25 9:01	4/11/25 9:16	0.25
4/11/25 9:34	4/11/25 9:35	0.02
4/12/25 1:19	4/12/25 1:36	0.28
4/12/25 2:20	4/12/25 2:23	0.05
4/13/25 13:30	4/13/25 14:41	1.18
4/13/25 14:45	4/13/25 14:46	0.02
4/13/25 14:49	4/13/25 14:50	0.02
4/14/25 3:11	4/14/25 4:24	1.22
4/15/25 9:36	4/15/25 9:40	0.07
4/15/25 10:41	4/15/25 10:43	0.03
4/15/25 14:08	4/15/25 14:12	0.07
4/16/25 9:12	4/16/25 9:44	0.53
4/16/25 10:29	4/16/25 10:34	0.08
4/16/25 10:35	4/16/25 10:37	0.03
4/17/25 22:59	4/17/25 23:26	0.45
4/18/25 0:22	4/18/25 1:02	0.67
4/18/25 10:42	4/18/25 11:32	0.83
4/18/25 11:33	4/18/25 11:35	0.03
4/20/25 6:40	4/20/25 7:46	1.10
4/20/25 7:55	4/20/25 7:56	0.02
4/20/25 13:33	4/20/25 13:47	0.23
4/20/25 13:53	4/21/25 7:54	18.02
4/21/25 7:55	4/21/25 8:02	0.12
4/21/25 8:04	4/21/25 8:07	0.05
4/21/25 8:08	4/21/25 10:06	1.97
4/21/25 10:07	4/21/25 10:11	0.07
4/21/25 10:12	4/21/25 10:13	0.02
4/21/25 15:59	4/22/25 8:35	16.60
4/22/25 8:41	4/22/25 8:42	0.02
4/22/25 8:43	4/22/25 8:58	0.25
4/22/25 9:55	4/22/25 11:25	1.50
4/24/25 12:14	4/24/25 13:36	1.37
4/24/25 13:37	4/24/25 13:39	0.03
4/24/25 13:40	4/24/25 13:41	0.02
4/28/25 14:00	4/28/25 14:06	0.10
4/28/25 23:34	4/29/25 7:28	7.90
4/29/25 7:29	4/29/25 7:30	0.02
4/30/25 3:05	4/30/25 4:16	1.18
5/2/25 7:39	5/2/25 8:00	0.35
5/2/25 8:59	5/2/25 9:01	0.03
5/2/25 9:07	5/2/25 9:46	0.65
5/2/25 16:17	5/2/25 16:46	0.48
5/2/25 23:48	5/3/25 0:30	0.70
5/3/25 0:31	5/3/25 0:32	0.02
5/3/25 3:47	5/3/25 5:46	1.98
5/3/25 5:47	5/3/25 5:49	0.03
5/3/25 5:50	5/3/25 5:58	0.13
5/7/25 7:07	5/7/25 7:27	0.33
5/7/25 20:54	5/7/25 21:05	0.18
5/7/25 21:06	5/7/25 21:07	0.02
5/9/25 6:54	5/9/25 7:53	0.98
5/9/25 7:54	5/9/25 7:56	0.03

Table C-2
RNG Plant Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Start of Downtime	End of Downtime	Approximate Downtime (hours)
5/9/25 7:57	5/9/25 8:01	0.07
5/9/25 8:02	5/12/25 7:31	71.48
5/12/25 7:32	5/12/25 9:48	2.27
5/12/25 10:23	5/12/25 10:34	0.18
5/12/25 12:12	5/12/25 12:13	0.02
5/12/25 13:14	5/12/25 13:22	0.13
5/13/25 11:20	5/13/25 11:23	0.05
5/13/25 12:13	5/13/25 12:16	0.05
5/14/25 1:28	5/14/25 7:16	5.80
5/14/25 13:47	5/14/25 14:08	0.35
5/14/25 21:50	5/15/25 12:41	14.85
5/15/25 12:44	5/15/25 12:45	0.02
5/15/25 12:48	5/15/25 12:53	0.08
5/16/25 0:23	5/16/25 7:54	7.52
5/16/25 7:55	5/16/25 7:56	0.02
5/16/25 7:58	5/16/25 7:59	0.02
5/16/25 19:52	5/20/25 14:32	90.67
5/20/25 14:35	5/20/25 14:36	0.02
5/20/25 16:13	5/20/25 16:14	0.02
5/20/25 23:01	5/20/25 23:15	0.23
5/20/25 23:28	5/20/25 23:49	0.35
5/21/25 4:17	5/21/25 7:03	2.77
5/21/25 7:04	5/21/25 7:06	0.03
5/21/25 7:57	5/21/25 8:04	0.12
5/21/25 20:00	5/22/25 8:05	12.08
5/22/25 8:07	5/22/25 8:09	0.03
5/22/25 8:17	5/22/25 8:18	0.02
5/22/25 9:06	5/22/25 9:09	0.05
5/22/25 9:39	5/22/25 9:42	0.05
5/22/25 23:31	5/23/25 1:22	1.85
5/23/25 1:24	5/23/25 1:25	0.02
5/23/25 5:15	5/23/25 7:05	1.83
5/23/25 7:11	5/23/25 7:13	0.03
5/23/25 7:45	5/23/25 7:50	0.08
5/23/25 8:17	5/23/25 8:19	0.03
5/23/25 8:20	5/23/25 8:21	0.02
5/23/25 9:20	5/23/25 10:02	0.70
5/23/25 21:39	5/23/25 21:46	0.12
5/24/25 3:48	5/24/25 9:24	5.60
5/24/25 9:26	5/24/25 9:29	0.05
5/24/25 9:32	5/24/25 9:41	0.15
5/24/25 9:56	5/24/25 9:57	0.02
5/24/25 10:40	5/24/25 10:44	0.07
5/24/25 11:22	5/24/25 11:41	0.32
5/24/25 12:41	5/25/25 13:43	25.03
5/25/25 13:49	5/25/25 13:51	0.03
5/25/25 14:26	6/10/25 15:07	384.68
6/10/25 15:09	6/10/25 15:10	0.02
6/11/25 9:55	6/11/25 10:23	0.47
6/12/25 8:25	6/12/25 8:27	0.03
6/13/25 10:07	6/13/25 10:34	0.45
6/13/25 15:20	6/13/25 15:45	0.42
6/13/25 19:37	6/14/25 9:54	14.28
6/14/25 9:57	6/14/25 9:58	0.02
6/14/25 10:00	6/14/25 10:22	0.37
6/14/25 10:27	6/14/25 10:43	0.27
6/14/25 11:48	6/16/25 9:00	45.20
6/16/25 19:45	6/17/25 11:44	15.98
6/17/25 11:50	6/17/25 11:52	0.03
6/17/25 11:57	6/17/25 14:48	2.85
6/17/25 14:50	6/17/25 14:52	0.03
6/17/25 15:10	6/17/25 16:09	0.98
6/17/25 16:35	6/17/25 16:36	0.02

Table C-2
RNG Plant Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Start of Downtime	End of Downtime	Approximate Downtime (hours)
6/19/25 11:24	6/19/25 11:27	0.05
6/19/25 11:38	6/19/25 11:43	0.08
6/19/25 11:49	6/19/25 11:50	0.02
6/21/25 6:02	6/21/25 6:50	0.80
6/21/25 6:51	6/21/25 6:52	0.02
6/21/25 7:44	6/21/25 7:48	0.07
6/22/25 22:24	6/23/25 8:54	10.50
6/24/25 7:44	6/24/25 9:44	2.00
6/25/25 12:30	6/25/25 12:51	0.35
6/25/25 20:08	6/26/25 11:07	14.98
6/26/25 12:56	6/26/25 13:02	0.10
6/26/25 13:11	6/26/25 13:14	0.05
6/26/25 13:16	6/26/25 13:22	0.10
6/27/25 10:15	6/27/25 12:14	1.98
Total		1,907.12

Notes:
1. During the reporting period, based on data provided by Archaea, the RNG facility operated except for the times shown.
2. As required by the Site-Specific Treatment System Monitoring Plan, during operation of the RNG plant, the LFG was compressed to at least 1 psi, filtered in a knockout pot filter that maintained a pressure drop of less than 5 psi, and dewatered in a cooler that decreased the compressed LFG temperature to 130 °F or less.

Table C-3
Collection System Operating Status Summary
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Month	Collection System Downtime (hours)
January 2025	9.2
February 2025	4.2
March 2025	0.5
April 2025	2.8
May 2025	1.9
June 2025	0.3
Total	**18.9**

Notes:
1. Collection system downtime occurs when Flare #4 and the RNG facility are offline at the same time.

Appendix D

Actions Taken to Improve The Quality And Quantity of Gas Collected

Table D-1
Actions to Improve the Quality and Quantity of Gas Collected
from January 1, 2025 through June 30, 2025

Juniper Ridge Landfill
Old Town, Maine

Improvement	Date Completed	Completed By
Drilled GW-205	1/10/2025	Well driller
Drilled GW-129	1/11/2025	Well driller
Drilled GW-138, GW-145	1/13/2025	Well driller
Drilled GW-152	1/14/2025	Well driller
Installed 20' of 6" vac for GCT-1526	1/15/2025	Pipe crew
Installed 120' of 6" vac for GCT-1525	1/15/2025	Pipe crew
Installed 12' of 12" header in cell 15	1/17/2025	Pipe crew
Installed 50' of 12" header in cell 15	1/22/2025	Pipe crew
Installed 110' of 6" vac for GCT-1521	1/23/2025	Pipe crew
Installed 80' of 6" perf for GCT-1522	1/24/2025	Pipe crew
Installed 150' of 6" perf for GCT-1524	1/28/2025	Pipe crew
Installed 40' of 6" vac for GW-129	1/28/2025	Pipe crew
Added horizontal collectors JCT1526A, JCT1526B, JCT1524, and JCT1525 to the collection system	2/12/2025	Pipe crew
Added gas well JR-GW129 to the collection system	2/12/2025	Pipe crew
Extended GW-69R 15'	2/14/2025	Pipe crew
Extended GW-69B 20'	2/18/2025	Pipe crew
Extended GW-70 20'	2/19/2025	Pipe crew
Iinstalled 118' of 6" vac for GW-I	3/20/2025	Pipe crew
Installed 47' of 6" vac for GW-28	3/20/2025	Pipe crew
Installed 53' of 6" vac for GW-L	3/20/2025	Pipe crew
Installed 170' of future 6" vac in cell 15	3/24/2025	Pipe crew
Installed 300' of 6" perf for GCT-1620	3/27/2025	Pipe crew
Installed 360' of 6" perf for GCT-1607S	4/7/2025	Pipe crew
Decommissioned GCT-1005	4/15/2025	Pipe crew
Decommissioned GCT-1001, 1111, 1116, 916, and 1011	4/16/2025	Pipe crew
Installed 140' of 6"vac in C-15	4/17/2025	Pipe crew
Installed 30' of 6" vac in C-15	4/21/2025	Pipe crew
Installed 27' of 6" vac in C-15	4/21/2025	Pipe crew
Installed 40' of 12" header in C-15	4/23/2025	Pipe crew
Installed 40' of 6" vac in C-15	4/23/2025	Pipe crew
Added collectors JROCAP2A and JROCAP2B to the collection system	4/25/2025	Pipe crew
Made connection at 12" trap in final closure 3.	4/30/2025	Pipe crew
Installed 160' of 12" header in cap 3.	5/7/2025	Pipe crew
Installed 80' of 12" header in cap 3.	5/8/2025	Pipe crew
Installed 80' of 6" vac for GW-72	5/9/2025	Pipe crew
Installed 80' of 6" vac for GW-80.	5/9/2025	Pipe crew
Installed 480' 6" perf for GCT-1603	5/12/2025	Pipe crew
Installed 110' of 12" header in cap 3	5/13/2025	Pipe crew
Installed 480' of 6" perf for GCT-1602	5/14/2025	Pipe crew
Installed 110' of 12" header in cap 3	5/15/2025	Pipe crew
Installed 85' of 6" vac for GW-79R	5/15/2025	Pipe crew
Installed 55' of 6" vac for GW-206	5/15/2025	Pipe crew
Installed 72' of 6" vac for GW-71	5/15/2025	Pipe crew
Added horizontal collectors JRCT1518, JRCT1524, and JRCT1532 to the collection system	5/21/2025	Pipe crew
Added gas well JR-GW203 to the collection system	5/21/2025	Pipe crew
Installed 180' of 12" header in cap 3	5/26/2025	Pipe crew
Installed 450' of 6" perf for GCT-1601	5/30/2025	Pipe crew
Drilled GW-79R	6/5/2025	Well driller
Drilled GW-78BR2	6/5/2025	Well driller
Drilled GW-213	6/6/2025	Well driller
Drilled GW-174	6/6/2025	Well driller
Installed 170' of 6" vac for GW-78BR2	6/9/2025	Pipe crew
Installed 170' of 6" vac for GW-77R	6/9/2025	Pipe crew
Installed 80' of 6" vac for odor pipe in cap 1/3	6/10/2025	Pipe crew
Installed 7' of 6" vac for GW-69R	6/11/2025	Pipe crew
Installed 72' of 6" vac for GW-68B	6/11/2025	Pipe crew
Installed 93' of 6" vac for GW-68R	6/11/2025	Pipe crew
Installed 120' of 12" headed in cell 16	6/12/2025	Pipe crew
Installed 80' of 6" perf for odor pipe in cap 3	6/13/2025	Pipe crew
Installed 120' of 6" perf for odor pipe in cap 3	6/13/2025	Pipe crew
Installed 150' of 6" vac for GW-58	6/16/2025	Pipe crew
Installed 177' of 6" vac for GW-117	6/16/2025	Pipe crew
Installed 80' of 6" vac for GW-213	6/16/2025	Pipe crew
Extended GCT-1501 15'	6/17/2025	Pipe crew
Installed 100' of 6" vac in cap 3	6/18/2025	Pipe crew
Installed trap in west slope of cell 16	6/23/2025	Pipe crew
Installed 40 of 12" headed in cell 16	6/24/2025	Pipe crew
Installed 40' of 8" trap drain in cell 16	6/25/2025	Pipe crew
Installed 35' of 12" header in cell 16	6/26/2025	Pipe crew
Installed 90' of 6" vac for GCT-1603	6/27/2025	Pipe crew