

November 30, 2023
File No. 27223216.24

Mr. Brian Rath, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
Wallace State Office Building
502 East 9th Street
Des Moines, Iowa 50319-0034

Subject: 2023 Annual Landfill Gas Report
Louisa County Sanitary Landfill (Closed)
Permit No. 58-SDP-01-74C

Dear Brian:

This letter documents the completion of the Annual Landfill Gas Monitoring since the 2022 Annual Landfill Gas Report as required by 1989 IAC 567-103(455B). In accordance with Permit Amendment #17 dated December 27, 2022 (Doc No. 105379), monitoring of the vadose zone of the methane monitoring points was performed during the semi-annual methane monitoring events. Attached is Figure 1 showing the monitoring locations along with copies of the recorded data from each methane monitoring event.

If you have any questions regarding these reports, please contact us at (515) 631-6160.

Sincerely,



Benjamin Madson
Associate Professional
SCS Engineers



Timothy C. Buelow, P.E.
Project Director
SCS Engineers

BJM/TCB









Copies: Mr. Brad Quigley, Louisa County Solid Waste Agency
Mr. Adam Shutt, Louisa County Engineer



Sample Point	Monitoring Point Location
LFGW-1R	North edge of property line, near culvert.
LFGW-2R	Southwest end of property.
LFGW-3R	Southeast end of property.
LFGW-4R	North of property, in cow pasture.

SCS
ENGINEERS
environmental consultants and contractors

Legend

	Methane Monitoring Point		Surface Water Monitoring Point
	Landfill Gas Well		Culvert
	Monitoring Well		Located Waste Boundary
	Leachate Monitoring Point		Approximate Property Boundary

Louisa County Sanitary
Landfill
Cairo, Iowa
Project No: 27223216.00
Drawing Date: November
2023

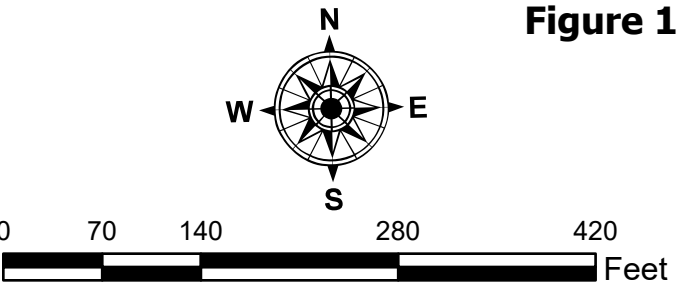


Figure 1

ATTACHMENT A

2023 SEMI-ANNUAL MONITORING FIELD LOGS

Landfill Gas Monitoring Field Data Sheet

Name of Facility: Louisa County Sanitary Landfill

Sampling Equipment Used: RKI GX-2012

Date of Measurement: 5/24/2023

Date Calibrated: 5/24/2023

Time Calibrated: 9:30 AM

Weather Conditions:

Temperature: 89°F

Barometric Pressure: 31.00 in/Hg

Other: Sunny, no wind

Name of Sampler: Scott Stoller

Sample Point	Methane Concentration (% of LEL)	Exposed Screen (Y/N)	Comments
LFGW-1R	0%	Y	
LFGW-2R	0%	Y	
LFGW-3R	0%	Y	
LFGW-4R	0%	Y	

Landfill Gas Monitoring Field Data Sheet

Name of Facility: Louisa County Sanitary Landfill

Sampling Equipment Used: RKI GX-2012

Date of Measurement: 11/16/2023

Date Calibrated: 11/16/2023

Time Calibrated: 11:00 AM

Weather Conditions:

Temperature: 68°F

Barometric Pressure: 29.85 in/Hg

Other: Sunny, SSW wind at 15 mph

Name of Sampler: Konner Roth

Sample Point	Methane Concentration (% of LEL)	Exposed Screen (Y/N)	Comments
LFGW-1R	0%	Y	
LFGW-2R	0%	Y	
LFGW-3R	0%	Y	
LFGW-4R	0%	Y	