

OR

PROJECT: WC,CY24 Env Comp&On-Call, Montgomery, IA 27224021.00 DATE: 8/30/2024

SUBJECT: Montgomery County Sanitary Landfill - 69-SDP-01-74 - Updated LFGP TRANSMITTAL ID: 00004

PURPOSE: For Record VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Ben Madson OR	SCS Engineers	BMadson@scsengineers.com	

TO

NAME	COMPANY	EMAIL	PHONE
Mike Smith 502 East 9th Street Des Moines IA 50319-0034 United States	Iowa, State of	mike.smith@dnr.iowa.gov	515-725-8200

REMARKS: Mike:

SCS Engineers, on behalf of Iowa Waste Services, LLC, is submitting this proposed Landfill Gas Monitoring Plan in response to the June 25, 2024, Iowa Department of Natural Resources (DNR) Approval of Comments Letter (Doc #110302) for the Montgomery County Sanitary Landfill. If you have any comments, concerns, or issues with the file transmittal please let us know.

Thank you

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	8/30/2024	Montgomery County Sanitary Landfill - 69-SDP-01-74 - Update to LFGP.pdf	

COPIES:

Bret Stephens (Waste Connections, Inc. (99))
Becky Jolly
Kelly.Danielson@WasteConnections.com
Rachel Hanigan (Waste Connections, Inc. (99))

August 30, 2024
File No. 27224021.00

Mr. Mike Smith
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, IA 50321

Subject: Revised Landfill Gas Monitoring Plan
Montgomery County Sanitary Landfill
Permit #69-SDP-01-74

Dear Mike:

SCS Engineers, on behalf of Iowa Waste Services, LLC, is submitting this proposed Landfill Gas Monitoring Plan in response to the June 25, 2024, Iowa Department of Natural Resources (DNR) Approval of Comments Letter (Doc #110302) for the Montgomery County Sanitary Landfill. The current Landfill Gas Monitoring Network can be seen below in Table 1.

Table 1. Current Landfill Gas Monitoring Network

Point	Name	Type
#1	Lunch Room	Indoor
#2	North Machine Shed	Indoor
#3	Near MW-5 and MW-6	Ambient
#4	Near MW-7	Ambient
#5	Near MW-8 and MW-9	Ambient
#6	Toe of Slope West of MW-10	Ambient
#7	North Edge of Access Road	Ambient
#8	East of MW-18	Ambient
#9	Inside Office	Indoor
#10	Inside West Building	Indoor
#11	Inside East Building	Indoor
#12	Bottom/Drainage Ditch East Slope	Ambient
#13	GUCO-1	Subsurface
#14	GUCO-2	Subsurface

Ambient monitoring points #3, #4, #5, #6, #7, #8, and #12 have had no landfill gas detections in the past six years. Monitoring point #14 was last measured in the subsurface during the 2020 reporting period; field measurements have been taken aboveground (ambient) near GUCO-2's approximate location since 2021 (Doc #102140). Landfill gas monitoring points #3, #4, #5, #6, #7, #8, #12, and #14 are recommended to be removed from the landfill gas monitoring network.



In DNR correspondence dated May 16, 2024, it was stated “The DNR requires that the gas monitoring plan be updated with vadose zone monitoring points to ensure that explosive gas is not present above the lower explosive limit at the site boundaries either above or below ground (567 113.9(2)a.)” (Doc #110084).

Monitoring wells MW-30, MW-13, MW-24, MW-19R, and MW-18 have consistently had exposed screens in recent sampling events: MW-30 (six of the last eight), MW-13 (nine of the last ten), MW-24 (nine of the last twelve), MW-19R (twelve of the last twelve), and MW-18 (seven of the last seven). Monitoring wells MW-30, MW-13, MW-24, MW-19R, and MW-18 are located near the property boundaries and bracket both the North municipal solid waste landfill (MSWLF) unit and the South MSWLF unit. It is recommended that the monitoring wells listed above be added to the Landfill Gas Monitoring Network to monitor subsurface landfill gas. An updated Landfill Gas Monitoring Network can be found in Table 2.

Table 2. Recommended Landfill Gas Monitoring Network

Point	Name	Type
#1	Lunch Room	Indoor
#2	North Machine Shed	Indoor
#9	Inside Office	Indoor
#10	Inside West Building	Indoor
#11	Inside East Building	Indoor
#13	GUCO-1	Subsurface
#15	MW-30	Subsurface
#16	MW-13	Subsurface
#17	MW-24	Subsurface
#18	MW-19R	Subsurface
#19	MW-18	Subsurface

A map of the recommended Landfill Gas Monitoring Network can be found in Attachment A. If you have questions or comments regarding the submittal, please contact Ben Madson at (515) 776-9255.

Sincerely,



Benjamin Madson
Staff Professional
SCS Engineers

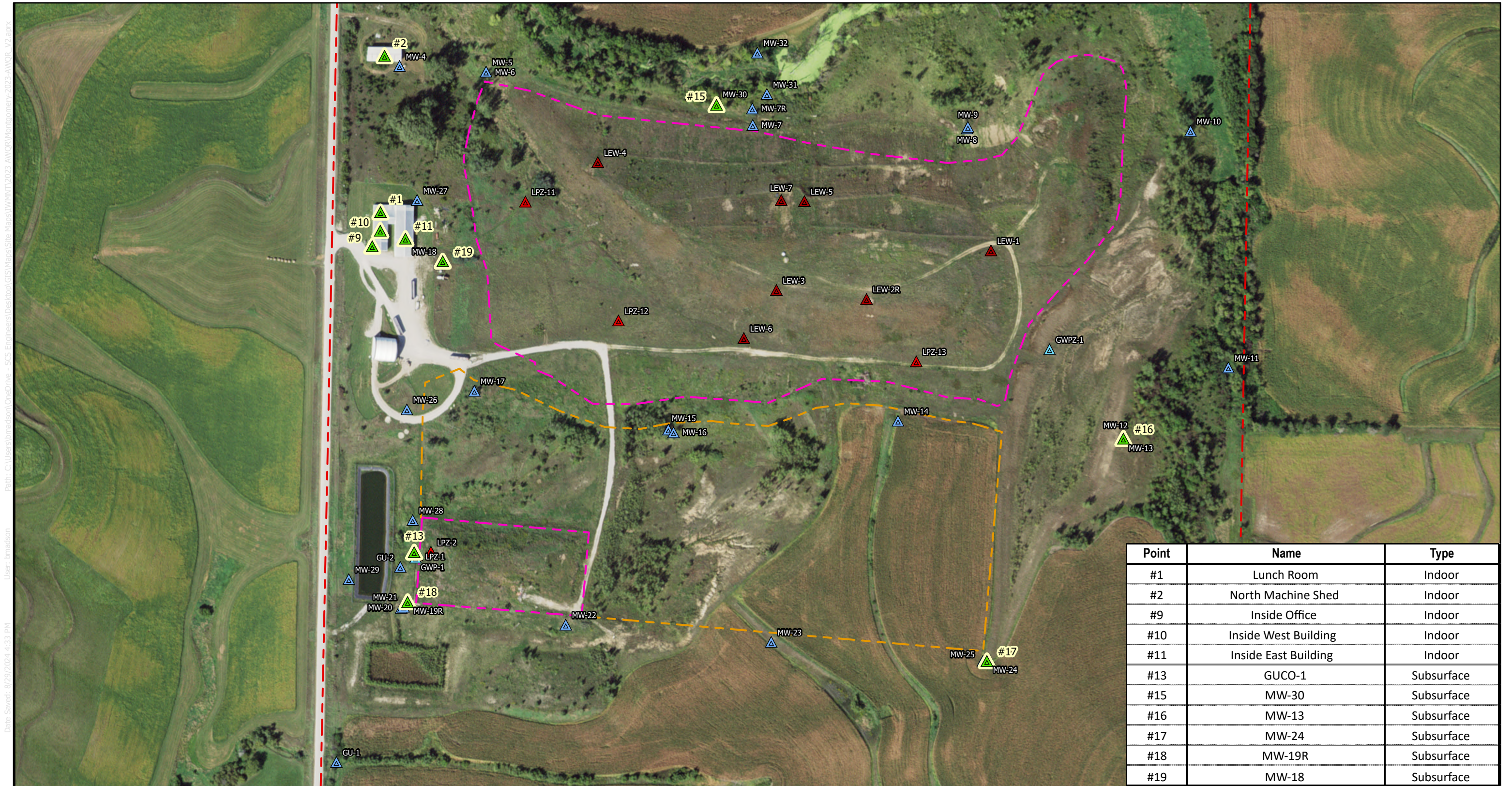


Nathan Ohrt
Senior Project Professional
SCS Engineers

BJM/NPO

Copies: Ms. Rachel Hanigan, Iowa Waste Services
Mr. Bret Stephens, Iowa Waste Services
Mr. Kelly Danielson, Iowa Waste Services

Attachment A



Site Map

Legend

- Recommended Landfill Gas Monitoring Point
- Monitoring Point
- Groundwater Piezometer
- Leachate Piezometer
- Leachate Extraction Well
- Future Waste Boundary
- Approximate Waste Boundary
- Property Boundary

Montgomery County Sanitary
Landfill
Red Oak, Iowa
Project No: 27224021.00
Drawing Date: August 2024

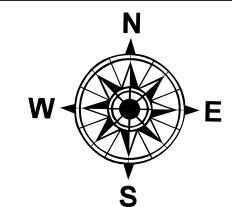


Figure 1