

November 30, 2023  
File No. 27223204.24

Mr. Mike Smith, P.E.  
Iowa Department of Natural Resources  
Land Quality Bureau  
Wallace State Office Building  
502 East 9<sup>th</sup> Street  
Des Moines, Iowa 50319

Subject: 2023 Landfill Gas Annual Report  
Original/C&D and Meinders/Hartog MSWLF Units  
Mahaska County Sanitary Landfill  
Permit No. 62-SDP-07-93C

Dear Mike: ,

This letter documents the completion of the 2023 annual landfill gas monitoring as required by the 1989 Iowa Administrative Code 567-103.2(15) at the closed Original/C&D and Meinders/Hartog municipal solid waste landfill (MSWLF) units at the Mahaska County Sanitary Landfill. Gas monitoring of the subsurface monitoring points was performed semi-annually. Attached is Figure 1 (Methane Monitoring Network) and a summary of methane monitoring results. There were no exceedances of an action level during this reporting period.

If you have any questions regarding this report, please contact Nathan Ohrt at (319) 331-9613.

Sincerely,



Nathan Ohrt  
Senior Project Professional  
SCS Engineers



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

NPO/TCB

Copies: Mr. Joe Farris, Mahaska County Sanitary Landfill



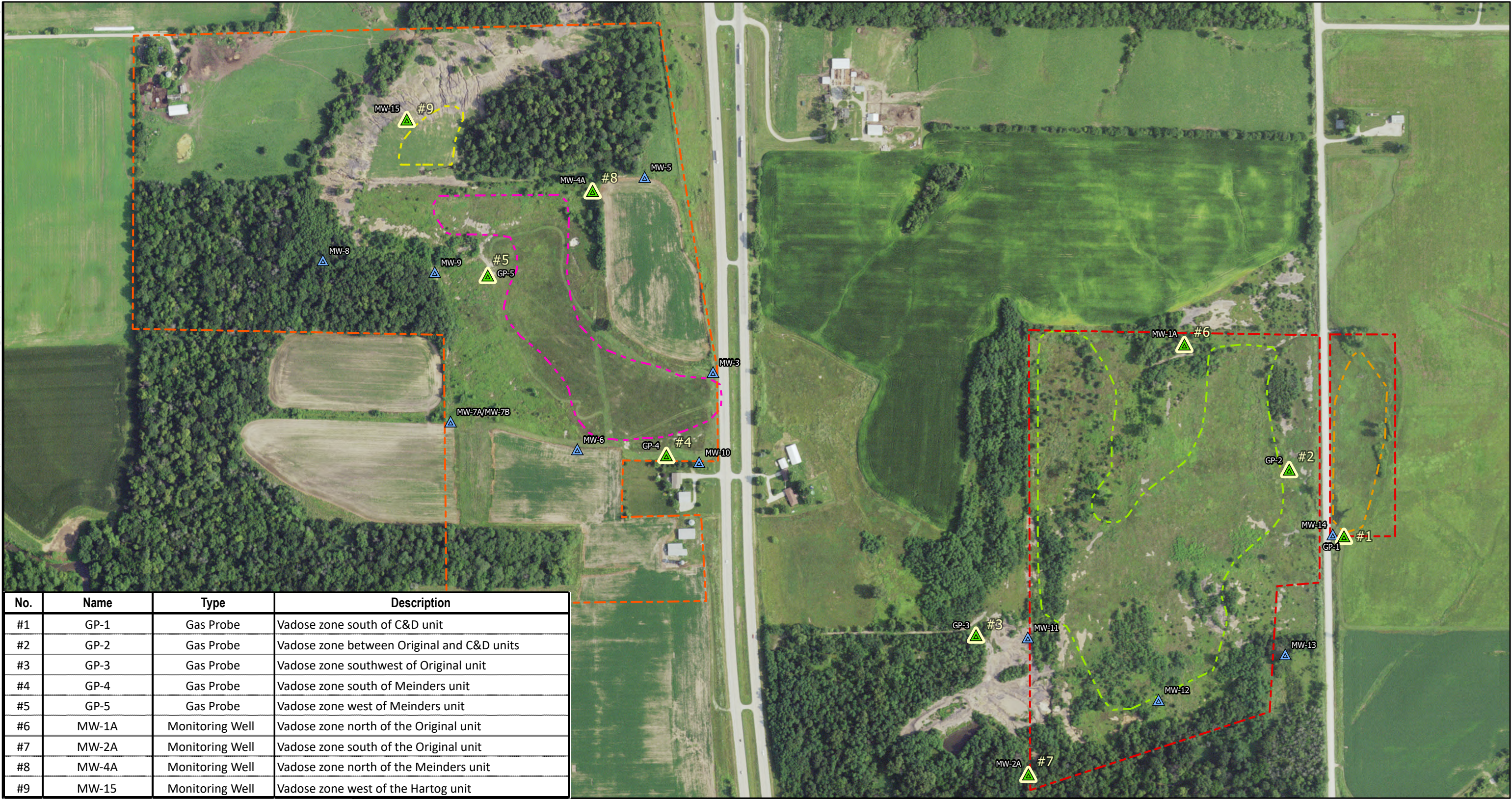
**Gas Monitoring Summary**  
**2023 Gas Monitoring Report**  
**Original/C&D and Meinders/Hartog MSWLF Units**  
**Mahaska County Sanitary Landfill**  
**Permit No. 62-SDP-07-93C**

Monitoring Points				Methane Results (% LEL)			
ID	Name	Type	Description	5/9/2023	S (Y/N)	8/25/2023	S (Y/N)
#1	GP-1	Gas Probe	Vadose zone south of C&D unit	0	Y	0	N
#2	GP-2	Gas Probe	Vadose zone between Original and C&D units	0	Y	0	Y
#3	GP-3	Gas Probe	Vadose zone southwest of Original unit	0	N	0	N
#4	GP-4	Gas Probe	Vadose zone south of Meinders unit	0	N	0	N
#5	GP-5	Gas Probe	Vadose zone west of Meinders unit	1	N	0	N
#6	MW-1A	Monitoring Well	Vadose zone north of the Original unit	0	N	0	N
#7	MW-2A	Monitoring Well	Vadose zone south of the Original unit	0	N	0	N
#8	MW-4A	Monitoring Well	Vadose zone north of the Meinders unit	0	N	0	N
#9	MW-15	Monitoring Well	Vadose zone west of the Hartog unit	46	N	60	N

S(Y/N) - Was screen submerged, yes or no or blank is non-applicable



Path: C:\Users\hmadison\OneDrive - SCS Engineers\Desktop\GIS\Map\Site Maps\MCS\MM\2023\MMQR - Closed\Mahaska\_Closed\_2023\_MMQR.aprx  
User: hmadison  
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No.	Name	Type	Description
#1	GP-1	Gas Probe	Vadose zone south of C&D unit
#2	GP-2	Gas Probe	Vadose zone between Original and C&D units
#3	GP-3	Gas Probe	Vadose zone southwest of Original unit
#4	GP-4	Gas Probe	Vadose zone south of Meinders unit
#5	GP-5	Gas Probe	Vadose zone west of Meinders unit
#6	MW-1A	Monitoring Well	Vadose zone north of the Original unit
#7	MW-2A	Monitoring Well	Vadose zone south of the Original unit
#8	MW-4A	Monitoring Well	Vadose zone north of the Meinders unit
#9	MW-15	Monitoring Well	Vadose zone west of the Hartog unit



# Methane Monitoring Network

## Legend

- Methane Monitoring Location
- Approximate Monitoring Well Location
- Approximate Gas Probe Location
- Approximate Limits of Property Lines - Hartog & Meinders Site
- Approximate Property Line - Original and C&D Sites
- Hartog Site Waste Boundary
- Meinders Site Waste Boundary
- Original Site Waste Boundary
- C&D Site Waste Boundary
- MW Methane Points

Mahaska County Sanitary Landfill  
Original & C&D Sites and  
Hartog & Meinders  
Oskaloosa, Iowa  
Project No: 27223204.24  
Drawing Date: October 2023

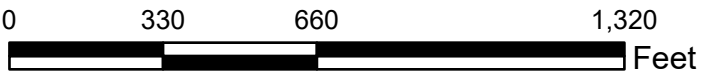
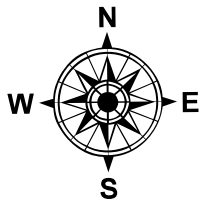


Figure 1