

December 5, 2025  
File No. 27225277.00

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

Subject: Landfill Gas Monitoring Probe Installation  
Scott County Landfill  
Permit No. 82-SDP-03-77C

Dear Mike:

SCS Engineers, on behalf of the Waste Commission of Scott County, is submitting the boring logs and construction documentation following the installation of landfill gas monitoring probes associated with the Scott County Landfill (Landfill).

Monitoring GP-11 and GP-12 were installed in September 2025. A work plan that included the proposed locations of the gas probes south of the Landfill, dated June 28, 2023 (Doc #107077), was approved on June 30, 2023 (Doc #107092). The westernmost proposed gas probe, labeled as GP-10, was on the other side of Donaldson Creek from the Landfill. As the creek would function as a barrier to landfill gas migration from the Landfill, GP-10 was determined not to be necessary and was not installed, as approved by the Iowa Department of Natural Resources in email correspondence on August 22, 2025 (Doc #113711).

Boring logs and construction documentation for the newly installed monitoring probes are attached. A site map including the locations of the new monitoring wells is included in Figure 1.

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

Sincerely,



Nathan Ohrt  
Senior Project Professional  
SCS Engineers



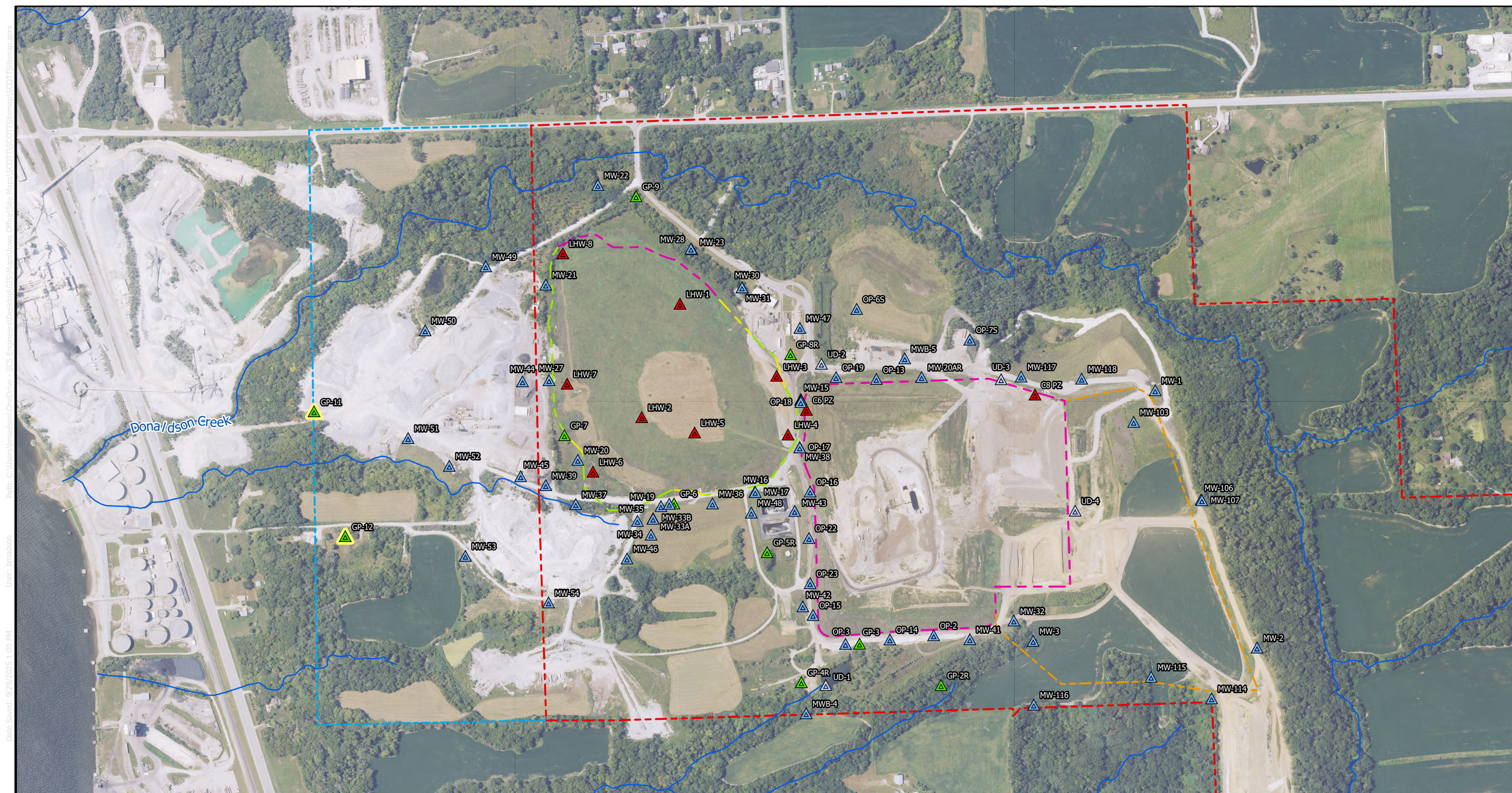
Timothy C. Buelow, P.E.  
VP - Senior Project Advisor  
SCS Engineers

NPO/TCB

Copies: Bryce Stalcup, Waste Commission of Scott County  
Brian Seals, Waste Commission of Scott County







Path: C:\Users\hmadison\OneDrive - SCS Engineers\Desktop\GIS\Map\Iowa Office\Site Maps\SCOTT\SCOTT\Shuman.aprx  
User: hmadison  
Date Saved: 9/29/2025 1:40 PM



## New LFG Monitoring Points

Legend		
New LFG Monitoring Point	Gas Monitoring Point	Interpolated Waste Boundary
Monitoring Well	Approximate Future Waste Boundary	Approximate Lease Boundary
Underdrain Location	Located Waste Boundary	Easement Boundary
Leachate Monitoring Point	Approximate Waste Boundary	Stream

Waste Commission of  
Scott County Landfill  
Davenport, Iowa  
Project No: 27225277.26  
Drawing Date: September  
2025

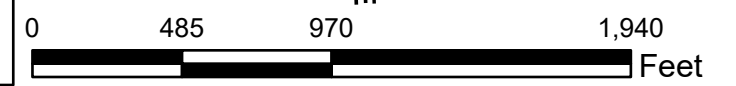
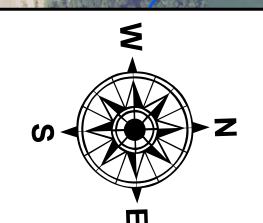


Figure 1



# SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM

Boring / Well Number: <b>GP-11</b>		Facility Name: <b>Scott County Landfill</b>		Facility Street Address: <b>11555 110th Avenue, Davenport, IA</b>	
Boring Depth (ft) X Diameter (in): <b>36.0 x 7.25</b>				Drilling Method: <b>Hollow Stem Auger</b>	
Well Contractor Name: <b>Ryan Peterson</b> Registration Number: <b>10115</b>				Logged by: <b>Austin Henderson</b>	
Ground Surface Elevation (ASL): <b>645.1</b>			Top of Casing Elevation (ASL): <b>648.55</b>		
Date: <b>9/02/2025</b> Start Time: <b>9:00</b>		Date: <b>9/02/2025</b> End Time: <b>11:00</b>		UST Number: LUST Number:	
Depth (feet)	Well Construction Details	Blow Count if applicable	Sample No.*	Type	PID / FID Reading
					Rock Formations, Soil, Color and Classifications, Observations (moisture, odor, etc.) First column for USCS
			1	SS	GP <u>GRAVEL</u>
			2	SS	GP <u>GRAVEL</u> Trace clay/sand
			3	SS	
			4	SS	CL <u>SILTY CLAY</u> Brown, trace gravel
			5	SS	CL <u>SILTY CLAY</u> Brown
			6	SS	
			7	SS	
			8	SS	
			9	SS	SC <u>SAND</u> Brown, very fine, trace clay

ND-Non detectable    DT-Direct push    SS-Split Spoon

Observations	Date:	<b>9/02/2025</b>				
Water Level (ASL)	Level:	▽				
Static Water Level Symbol	Time:	<b>10:30</b>				

IOWA DNR TEMPLATE:GPJ IA\_DNR.GDT 18/9/25

# SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM

Boring / Well Number: <b>GP-11</b>		Facility Name: <b>Scott County Landfill</b>		Facility Street Address: <b>11555 110th Avenue, Davenport, IA</b>	
Boring Depth (ft) X Diameter (in): <b>36.0 x 7.25</b>				Drilling Method: <b>Hollow Stem Auger</b>	
Well Contractor Name: <b>Ryan Peterson</b> Registration Number: <b>10115</b>				Logged by: <b>Austin Henderson</b>	
Ground Surface Elevation (ASL): <b>645.1</b>			Top of Casing Elevation (ASL): <b>648.55</b>		
Date: <b>9/02/2025</b> Start Time: <b>9:00</b>		Date: <b>9/02/2025</b> End Time: <b>11:00</b>		UST Number:  LUST Number:	
Depth (feet)	Well Construction Details	Blow Count if applicable	Sample No.*	Type	PID / FID Reading
			10	SS	CL <b><u>SILTY CLAY</u></b> Brown-grey
			11	SS	CL <b><u>SILTY CLAY</u></b> Brown
			12	SS	CL <b><u>SANDY CLAY (Till)</u></b> Brown, trace gravel, brown sand layers at 31'
			13	SS	
			14	SS	
			15	SS	
			16	SS	
			17	SS	
			18	SS	<b><u>BOTTOM OF BORING</u></b>

ND-Non detectable    DT-Direct push    SS-Split Spoon

Observations	Date:	<b>9/02/2025</b>				
Water Level (ASL)	Level:	$\nabla$				
Static Water Level Symbol	Time:	<b>10:30</b>				

<b>PWSID# or PWTS No.</b> _____		<b>PWTS Permit No.</b> _____		<b>GeoSam WNumber</b> <i>(IGS use only)</i> _____		
<b>Site Identification</b>						
Property owner <u>Linwood Mining &amp; Minerals</u> Other ID _____						
Address <u>11555 110th Avenue</u> City <u>Davenport</u>						
Tenant <u>Waste Commission of Scott County</u>						
Well depth <u>35</u> ft Date completed <u>9 / 2 / 2025</u>						
<b>Location</b> County <u>Scott</u>						
GPS coordinates (NAD83 datum) <u>41.46741</u> Latitude <u>-90.68152</u> Longitude <input type="checkbox"/> Decimal Degrees <input type="checkbox"/> Degrees, Decimal Minutes <input type="checkbox"/> Degrees, Minutes, Seconds						
NW 1/4 of the SE 1/4 of the S 1/4 of Sec <u>13</u> TWP <u>77</u> RNG <u>2</u> E						
Show exact location of well in section grid with a dot (.). Sketch map of well location on property.						
<b>Formation Log</b>						
From	To	Color	Hardness	Formation description		
				Please see attached log (GP-11)		
				(use additional sheets as needed)		
<b>Remarks</b> (including depth of lost drilling fluids, materials, or tools)						
<b>Well Use</b>						
<input type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Livestock <input type="checkbox"/> Heat pump <input type="checkbox"/> Commercial <input type="checkbox"/> Irrigation # of borehole(s) _____ <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Other _____						
<b>Drill Method</b> <input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Auger <input type="checkbox"/> Cable <input type="checkbox"/> Other _____						
<b>Hole size</b>						
7.25 inch from <u>0</u> ft to <u>36</u> ft				hole size continued		
_____ inch from _____ ft to _____ ft				_____ inch from _____ ft to _____ ft		
<b>Casing, Screen and/or Loop Pipe</b>						
Record all depth measurements from ground level (GL). Use + for above GL measurements.						
Size (in)	Material	Depth Top(ft)	Depth Bottom(ft)	Perforated	Slotted	Screen
2"	PVC Riser	0	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
2"	PVC Screen	5	35	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> slot size <u>0.010</u>
2'	PVC Point	35	35.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
<input checked="" type="checkbox"/> Gravel packed				amount _____ variety <u>20/40</u>		
<input type="checkbox"/> Seals/packers				type _____		
<input checked="" type="checkbox"/> Bottom capped with <u>2"</u> PVC bottom point						
<b>Casing Grout</b> Placement method _____						
Type		Depth Top	Depth Bottom	Amount (vol/wt)		
Bentonite Grout		0	3.5			
<b>Pump Installation</b> Date ____/____/____ Depth to intake _____ ft						
Type of pump _____ Rated capacity _____ GPM						
Pump diameter _____ in Final Yield _____ GPM						
<b>Well Development and Water Information</b> Date ____/____/____						
Static Water Level	Pumping Water Level	Yield	Duration			
_____ ft	_____ ft	_____ GPM	_____ hrs			
Water level measurement: <input type="checkbox"/> Sonic <input type="checkbox"/> Tape <input type="checkbox"/> Airline <input type="checkbox"/> E-line <input type="checkbox"/> Estimate						
Water yield measurement: <input type="checkbox"/> Orifice <input type="checkbox"/> Volumetric <input type="checkbox"/> Estimate						
Main water-supply zone from _____ ft to _____ ft below GL						
<b>Well Development</b>						
Explain: _____						
<b>Well Disinfection</b>						
System Water Volume _____ gal/ft <sup>3</sup> Chemical _____						
Chemical Concentration _____ mg/L Contact Time _____ hrs						
<b>Certified Well Driller</b>						
Company <u>Terracon</u>						
Name <u>Ryan Peterson</u> Certification no. <u>10115</u>						
<b>Certified Pump Installer</b>						
Company _____						
Name _____ Certification no. _____						

# SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM

Boring / Well Number: <b>GP-12</b>		Facility Name: <b>Scott County Landfill</b>		Facility Street Address: <b>11555 110th Avenue, Davenport, IA</b>	
Boring Depth (ft) X Diameter (in): <b>36.0 x 7.25</b>				Drilling Method: <b>Hollow Stem Auger</b>	
Well Contractor Name: <b>Ryan Peterson</b> Registration Number: <b>10115</b>				Logged by: <b>Austin Henderson</b>	
Ground Surface Elevation (ASL): <b>651.8</b>			Top of Casing Elevation (ASL): <b>655.21</b>		
Date: <b>9/02/2025</b> Start Time: <b>12:00</b>		Date: <b>9/02/2025</b> End Time: <b>2:00</b>		UST Number: LUST Number:	
Depth (feet)	Well Construction Details	Blow Count if applicable	Sample No.*	Type	PID / FID Reading
					Rock Formations, Soil, Color and Classifications, Observations (moisture, odor, etc.) First column for USCS
			1	SS	
			2	SS	
5			3	SS	
			4	SS	
10			5	SS	
			6	SS	
			7	SS	
15			8	SS	
			9	SS	
					CL <b>SILTY CLAY</b> Dark Brown, trace organics
					CL <b>SILTY CLAY</b> Brown-grey, trace sand
					CL <b>SILTY CLAY</b> Grey-brown, trace gravel

ND-Non detectable    DT-Direct push    SS-Split Spoon

Observations	Date:	<b>9/02/2025</b>				
Water Level (ASL)	Level:	▽				
Static Water Level Symbol	Time:	<b>1:30</b>				

IOWA DNR DNR TEMPLATE.GPJ IA\_DNR.GDT 18/9/25

# SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM

Boring / Well Number: <b>GP-12</b>		Facility Name: <b>Scott County Landfill</b>		Facility Street Address: <b>11555 110th Avenue, Davenport, IA</b>			
Boring Depth (ft) X Diameter (in): <b>36.0 x 7.25</b>				Drilling Method: <b>Hollow Stem Auger</b>			
Well Contractor Name: <b>Ryan Peterson</b>				Logged by: <b>Austin Henderson</b>			
Registration Number: <b>10115</b>							
Ground Surface Elevation (ASL): <b>651.8</b>			Top of Casing Elevation (ASL): <b>655.21</b>				
Date: <b>9/02/2025</b>		Date: <b>9/02/2025</b>		UST Number:			
Start Time: <b>12:00</b>		End Time: <b>2:00</b>		LUST Number:			
Depth (feet)	Well Construction Details	Blow Count if applicable	Sample No.*	Type	PID / FID Reading	Rock Formations, Soil, Color and Classifications, Observations (moisture, odor, etc.) First column for USCS	
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <div style="width: 10px; height: 10px; border: 1px solid black; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="width: 10px; height: 10px; border: 1px solid black; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="position: absolute; bottom: 0; left: 0; right: 0; height: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> </div> <div style="margin-top: 10px;"> <div style="width: 10px; height: 10px; border: 1px solid black; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="width: 10px; height: 10px; border: 1px solid black; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div>			10	SS		CL <b><u>SILTY-SANDY CLAY</u></b> Brown-grey	
				11	SS		
				12	SS		
				13	SS		CL <b><u>SILTY-SANDY CLAY</u></b>
				14	SS		CL <b><u>SANDY CLAY</u></b> Grey-brown, trace gravel, grey fine-coarse sand layers at 31'
				15	SS		
				16	SS		
				17	SS		
			18	SS		<b><u>BOTTOM OF BORING</u></b>	

ND-Non detectable    DT-Direct push    SS-Split Spoon

Observations	Date:	<b>9/02/2025</b>				
Water Level (ASL)	Level:	▽				
Static Water Level Symbol	Time:	<b>1:30</b>				

PWSID# or PWTS No.		PWTS Permit No.	GeoSam WNumber (IGS use only)			
<b>Site Identification</b> Property owner <u>Linwood Mining &amp; Minerals</u> Other ID _____ Address <u>11555 110th Avenue</u> City <u>Davenport</u> Tenant <u>Waste Commission of Scott County</u> Well depth <u>35</u> ft Date completed <u>9 / 2 / 2025</u>						
<b>Location</b> County <u>Scott</u> GPS coordinates (NAD83 datum) <u>41.46791</u> Latitude <u>-90.67847</u> Longitude <input type="checkbox"/> Decimal Degrees <input type="checkbox"/> Degrees, Decimal Minutes <input type="checkbox"/> Degrees, Minutes, Seconds <u>NW</u> <u>SW</u> <u>SE</u> <u>NE</u> 1/4 of the <u>13</u> TWP <u>77</u> RNG <u>2</u> <u>E</u> Show exact location of well in section grid with a dot (.). Sketch map of well location on property. <div style="text-align: center;"><p>Scale: 200 ft</p></div>						
<b>Drill Method</b> <input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Auger <input type="checkbox"/> Cable <input type="checkbox"/> Other _____						
<b>Hole size</b> <u>7.25</u> inch from <u>0</u> ft to <u>36</u> ft _____ inch from _____ ft to _____ ft		hole size continued _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft				
<b>Casing, Screen and/or Loop Pipe</b> Record all depth measurements from ground level (GL). Use + for above GL measurements.						
Size (in)	Material	Depth Top(ft)	Depth Bottom(ft)	Perforated	Slotted	Screen
2"	PVC Riser	0	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
2"	PVC Screen	5	35	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> slot size <u>0.010</u>
2'	PVC Point	35	35.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
<input checked="" type="checkbox"/> Gravel packed						amount _____ variety <u>20/40</u>
<input type="checkbox"/> Seals/packers						type _____
<input checked="" type="checkbox"/> Bottom capped with <u>2" PVC bottom point</u>						
<b>Casing Grout</b>				Placement method _____		
Type	Depth Top	Depth Bottom	Amount (vol/wt)			
Bentonite Grout	0	3.0				
<b>Pump Installation</b> Date ____/____/____ Depth to intake _____ ft						
Type of pump _____ Rated capacity _____ GPM						
Pump diameter _____ in Final Yield _____ GPM						
<b>Well Development and Water Information</b> Date ____/____/____						
Static Water Level	Pumping Water Level	Yield	Duration			
_____ ft	_____ ft	_____ GPM	_____ hrs			
Water level measurement: <input type="checkbox"/> Sonic <input type="checkbox"/> Tape <input type="checkbox"/> Airline <input type="checkbox"/> E-line <input type="checkbox"/> Estimate						
Water yield measurement: <input type="checkbox"/> Orifice <input type="checkbox"/> Volumetric <input type="checkbox"/> Estimate						
Main water-supply zone from _____ ft to _____ ft below GL						
<b>Well Development</b> Explain: _____						
<b>Well Disinfection</b>						
System Water Volume _____ gal/ft³ Chemical _____						
Chemical Concentration _____ mg/L Contact Time _____ hrs						
<b>Certified Well Driller</b> Company <u>Terracon</u> Name <u>Ryan Peterson</u> Certification no. <u>10115</u>						
<b>Certified Pump Installer</b> Company _____ Name _____ Certification no. _____						
<b>Remarks</b> (including depth of lost drilling fluids, materials, or tools)						
<b>Well Use</b> <input type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Livestock <input type="checkbox"/> Heat pump <input type="checkbox"/> Commercial <input type="checkbox"/> Irrigation # of borehole(s) _____ <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Other _____						