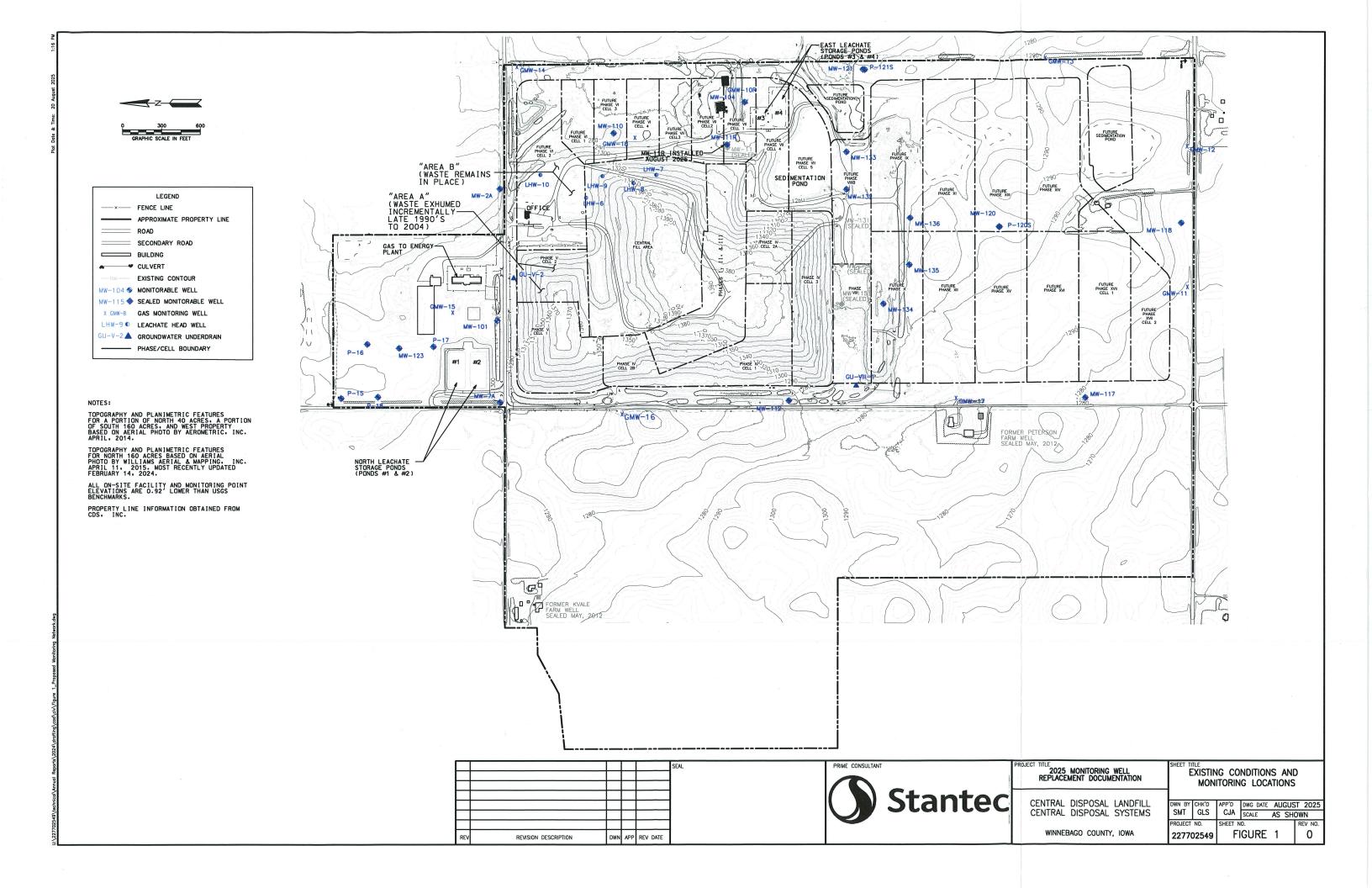


Document Transmittal

То:	IDNR Lan 502 E. 9 th	ental Engineer Sr., d Quality Bureau	From: Phone:		ting Services Inc. – Project Manager
File:	22770254	9	Date:	September 10,	2025
We Are Tr	ansmitting \	V _. ia			CON 12-1-1
☐ Courie	r 🗌 UPS	FedEx	⊠ US Mail	Other	Doc # 114150
☐ Shop □☐ Sample ☐ Other	Orawings es	☐ Prints ☐ Specifications	☐ Plans ☐ Copy of Le	☐ Report	e Order
Copies	Date	Description			
1	Sept 2025	IDNR Form 542-12	77 for Installation of	MW-11R at Central	Disposal Landfill
Transmitte	ed as Indica	ted Below			
☐ For Ap	proval	☐ Approv	ed as Submitted	☐ Resubmit	Copies for Approval
For You			ed as Noted		copies for Distribution
☐ As Red	quested	Returne	ed for Corrections	Return C	orrected Prints
☐ For Re	view and Co	mment	nature and Return	☐ Prints Returne	d After Loan
☐ For Bio	ds Due	⊠ Other _			
of new mo	nitoring well I				42-1277 for the installation lled to replace MW-11
	e any questio son2@stante	ns please feel free to ec.com	give me a call or so	end me a message a	at
Thanks! -Cory					

SEP 18 2025



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Central Disposal Landfill	Permit No. 95-SDP-01-72
Well or Piezometer No. MW-11R Dates Starte	d 8/12/2025 Date Completed 8/13/2025
A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft	
	and direction along boundary 221 ft North
Distance and direction from boundary to surface monitoring	,
Elevation (+0.01 ft. MSL) 1276.454	
Ground Surface 1276.454	Top of protective casing 1279.984
Top of well casing 1279.526	Benchmark elevation N/A
Benchmark description N/A	
B. SOIL BORING INFORMATION	
Construction Company Name Midwestern Drilling LLC	
Address 1260 20th St NW	City, State, Zip Code Holloway, MN 56249
Name of driller Tucker Belgum	
Drilling method 4 1/4" HSA Drilling fluid NA	Bore Hole diameter 8"
Soil sampling method Macro Core	Depth of boring 75'
C. MONITORING WELL INSTALLATION	
Casing material Schedule 40 PVC	Placement method Tremie Pipe
Length of casing 62'	Volume 1.05 cf (60'-57'BTOC)
Outside casing diameter 2.375" (standard sch. 40)	Backfill (if different from seal):
Inside casing diameter 2.047" (standard sch. 40)	Material High-Solids Bentonite Grout
Casing joint type Threaded	Placement method Tremie
Casing/screen joint type Threaded	Volume 18.85 cf (57'-3' bgs)
Screen material 2" Schedule 40 PVC	Surface seal design:
Screen opening size 0.010"	Material of protective casing: Steel
	Material of grout between
Screen length 10'	protective casing and well casing: Concrete
Depth of Well 72'	Protective cap:
Filter Pack:	Material Aluminum
Material Red Flint Sand	Vented?: ☐ Y ☒ N Locking?: ☒ Y ☐ N
Grain Size #40	Well cap: J-Plug
Volume 4.54 cf (73' - 60' BTOC)	Material PVC
Seal (minimum 3 ft. length above filter pack):	Vented?: ☐ Y 🔀 N
Material Bentonite Pellets	-
D. GROUNDWATER MEASUREMENT (+0.01 foot below top of	of inner well casing)
Water level 50.11 ft	Stabilization time 1 hour
Well development method Pump & Surge. Well to be develo	ped further by groundwater sampling vendor.
Average depth of frost line 2.5'	
	DIFICATION
나는 그는 그는 그는 그는 그는 사람들이 가득하는 것이 되었다. 그는 것은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 가득하는 것이 없는 것이다.	ERTIFICATION tion reported above is true, accurate, and complete.
Signature Lucky Paker	Certification # 11270 Date 8/27/2025

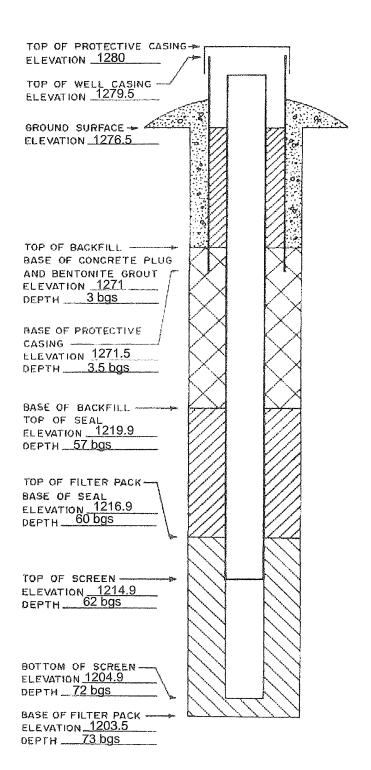
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-537-4051, nina.booker@dnr.iowa.gov

DNR Form 542-1277

ELEVATIONS: ± 0.01 FT. MSL DEPTHS: ± 0.1 FT. FROM GROUND SERFACE



Please mail completed form to: lowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319. Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-537-4051, nina.booker@dnr.iowa.gov
DNR Form 542-1277

 S1	tantec		MW-11F	R SUB	SURF	ACE LO	G	19-99-11		Page: 1 of 2
Project Name: Central Disposal Environmental Monitoring			Project Location: Lake Mills, IA				Surface Elevati	ion: 1,276.5 ft	t / MSL	
			Boring Location:	84335	34.0 / 502948	37.0	Start Date: 08	3-12-25	Finish Date: 08-13-25	
Client: Central Disposal Systems, Inc.			Coordinate System:	NAD83	/ UTM zone 1	5N				
Contractor: Midwestern Drilling Field Techn			Field Technician: N	E			Water 1: 47.8 ft / 08-13-2025 Water 2: 48.0 ft / 08-1			
Drill Rig	g: Ge	oprob	3	Reviewed By: CDK				Depth Total / R	ock:	73.0 ft
			Approved By: CDK				Inclined from H	loriz.: 90°	Azimuth: N/A	
Drilling	Drilling Method: HSA									
CELEVATION (Ft) STRATA PLOT (CT) (CT) (CT) (CT) (CT) (CT) (CT) (CT						REC			MENT OTHER TESTS/	
	ELEV (STR	(USCS)		ROCK:	RUN (Ft)	(Ft	RQD (%)		REMARKS
— 1 — 1 — 2 — 3 — 3 — 4 — — 1 — — 1 — — 1 — — 1 — 1 — 1 — 1	1269.3		SILT (OL), some organics, trace brown, (TOPSOIL). SILT (ML), trace fine sand, dark dry to moist.		AU	0.0 - 5.0			Concre	ete
	1269.3		LEAN CLAY (CL), trace fine sar dark gray to gray, dry, (TILL).	nd, trace gravel,	DP1	5.0 - 10.0	5.0			
					AU	10.0 - 15.0				10.0 - 20.0 ft: Iron-oxid staining - evidencing weathered Till.
—15———16———17———18—————————————————————————	-				DP2	15.0 - 20.0	2.5	5		15.0 - 20.0 ft: Rock obstructing macrocore barrel - 50% recovery f DP2 sample.
- IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					AU	20.0 - 25.0				20.0 - 25.0 ft: Macrocol barrel noted to be wet it DP3 sample. Water bearing sandier seam believed to be present 20-25' interval.
—					DP3	25.0 - 30.0	5.0			25.0 - 30.0 ft: Rock was pushed with macrocore barrel in sample DP3.
—30 —31 —31 —32 —32 ——33 ——33 ——33 ——34					AU	30.0 - 35.0			High Sol Bentonite	
	JS Standa	ard 2024	f. Log - US Geotech Soil Rock. Borehole (1). 09/05/25				, ,		

Stantec Boring: MW-11R SUBSURFACE LOG Page: 2 of 2												
Project Name: Central Disposal Environmental Monitoring		Project Location: Lake Mills, IA					Surface Elevation: 1,276.5 ft / MSL					
Project Number: 227702549 Boring Location:					8433534.0 / 5029487.0			5	Start Date: 08-12-25 Finish Date: 08-13-25			
(F1) (F1) STRATA PLOT (F2) STRATA PLOT (F3) STRATA PLOT (F3) STRATA PLOT (F4) STRATA PLOT (RIPTION	SOIL: DEPTH (Ft)		R	REC.			INSTRUMENT	OTHER TESTS/		
DEF	BELEVA F. STR		(USCS)		ROCK:	RUN (Ft)		Ft)	RQD (%)		INSTITUTE I	REMARKS
						35.0 - 40.0	() 6	5.0				
		///			DP4		$\backslash \backslash $					
40		///					1					
41												
42- 					AU	40.0 - 45.0	4			: :		
-43- - 44		V//)										
44		///										45.0 - 50.0 ft: Cobbles/
46		////					Λ			:		coarse gravel present in DP 5 sample.
47		<i>////</i>			DP5	45.0 - 50.0	/\ .	5.0				
48		V//			DF3	45.0 - 50.0	M	3.0				
-49- 		V//)					V			. :		
51		Y///										
										. :		
_ 53		V/A			AU	50.0 - 55.0	1			: :		
<u>-</u> 54		V//)										
55- 		Y//					$\overline{\Lambda}$					
56		///										
- 58-		V//			DP6	55.0 - 60.0	() 5	5.0				
59		V/A					\mathbb{V}				Bentonite Seal	
60		V//)										
61		/ ///										
62		///			AU	60.0 - 65.0						
64		V/A					Ы					
- -65		V//)										
66 <u></u>	1209.9	///					Λ			=	Filter Pack	
67-			CLAYEY SAND (SC), fine to m gravel, subangular, gray, wet, (DP7	65.0 - 70.0	() :	5.0		E		67.5 - 71.6 ft:
68				` ,			M			_		"Monitorable Zone" was observed from
						-	 			_		1204.9-1209.0 ft. MSL.
L-71-	1204.9				DDs	70.0 - 73.0	/\ .	2.0		-		
72		1777	LEAN CLAY (CL), trace fine sa dark gray to gray, dry, (TILL).	and, trace gravel,	DP8	70.0 - 73.0	$ \cdot $	3.0		-		
-73- 	1203.5	///	Bottom of Hole at 7	3 N Ft			<u> </u>					
-/4- -75-			Reason for Termination: T Abandonment: Completed as well	Target depth.								
-73 - -74 - -75 - -76 - -77			. Sandonmont. Completed as well	, , toror to description.								
L-77-												
78												
- -79												
	US Stand	ard 202	4. Log - US Geotech Soil Rock, Borehole	(1). 09/05/25								