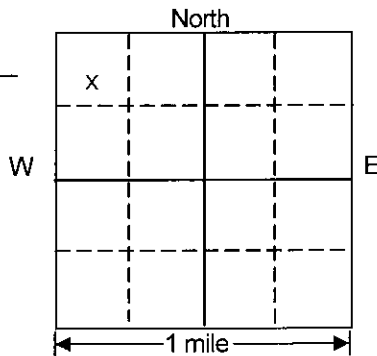


SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT

11-02

Location NW 1/4 NW 1/4 Sec 12 Twp 115N Rg 49W

Well Owner:

County
DeuelPlease mark well
location with
an "X"Name: Tech OrdAddress: 47600 180th StreetCity, State, Zip: Clear Lake SD 57226

Comments:

Plugged wells: MW2, MW3, MW7, MW8, MW11, MW12, MW13, MW14, TMW2D, TMW14D, and TMW15D.

See attached map and logs.

Tech Ord, Clear Lake

GeoTek #11-B94

Plugging Completion Date 5/26/2026

CHECK APPROPRIATE BOX

EXISTING WELL ☒TEST HOLE ☐Well depth 22' to 50'Casing material PVCCasing size(s) 3/4", 1" & 2"Casing condition Good

Hole depth _____

Hole size _____

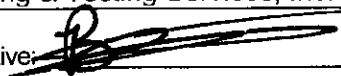
Describe plugging procedure:

Wells were plugged with bentonite to ground surface. PVC and steel risers were removed and voids were filled with soil.

Describe grout or plugging material:

Granular bentonite

Type of non-slip plug: _____

This well or test hole was plugged under license # 552 and this report is true and accurate.Drilling firm: GeoTek Engineering & Testing Services, Inc.Signature of Licensed Representative: 

Signature of Well Owner: _____

Date: 5-27-26

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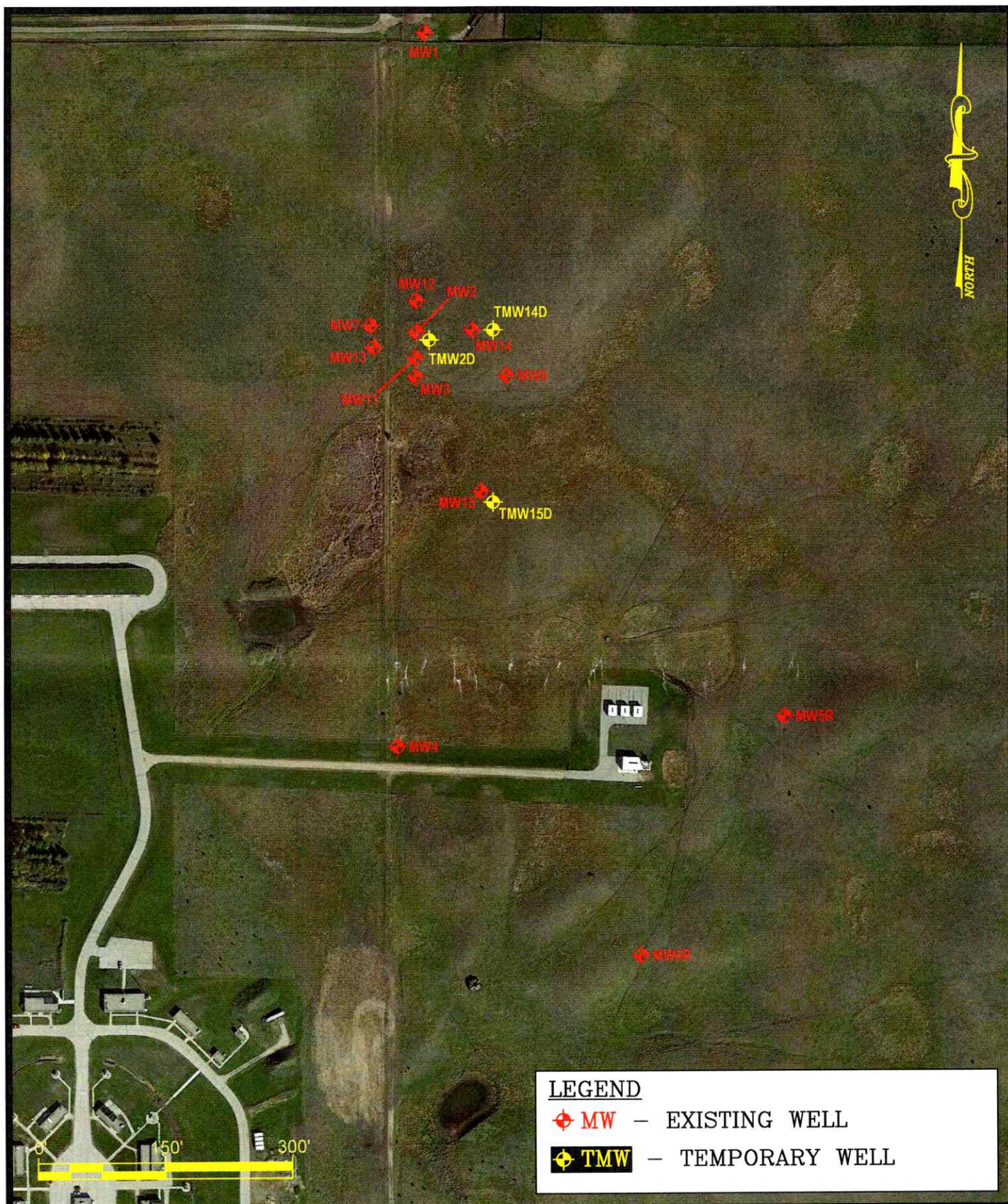


FIGURE 2B
AERIAL WELL LOCATION MAP
TECH ORD
47600 180TH STREET
CLEAR LAKE, SD

ACAD/GEOTEK/LINDA/11-B94

PROJECT#: 11-B94

DRAWN BY: MAB



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909 East 50th Street North
Sioux Falls, South Dakota 57104
605-335-5512 Fax 605-335-0773



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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # **11-B94**

BORING / WELL NO. **MW2 (1 of 1)**

PROJECT **Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD**

DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	WL	SAMPLE	
					NO.	TYPE
	SURFACE ELEVATION 1837.92 ft					
4 1/2	FILL, MOSTLY LEAN CLAY: a little sand, dark brown, moist	FILL	ND		1	HSA
			ND		2	SS
	LEAN CLAY WITH SAND: a little gravel, mottled brown and gray, moist, (CL)	GLACIAL TILL	ND		3	SS
			ND		4	SS
			ND		5	SS
			ND		6	SS
			ND		7	SS
			ND		8	SS
			ND		9	SS
27	Bottom of borehole at 27 feet.					

1838.46 ft

Cement Grout

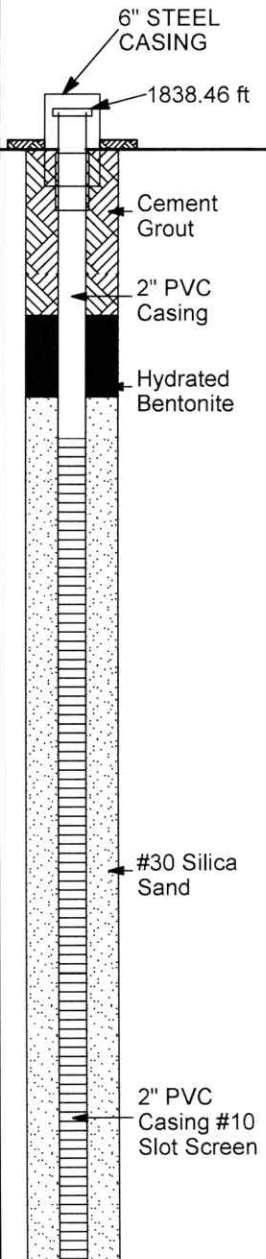
2" PVC Casing

Hydrated Bentonite

#30 Silica Sand

2" PVC Casing #10 Slot Screen

Well Construction Details



WATER LEVEL MEASUREMENTS

START 11-30-11 COMPLETE 11-30-11 11:13 am

DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD 3.25" ID Hollow Stem Auger
		SURFACE	TOR / TOC		
12-20-11	10:30 am	11.6	13.60	1824.86	
7-1-14	9:55 am	6.5	8.52	1829.94	
7-8-14	9:15 am	6.8	8.83	1829.63	
7-21-14	9:34 am	7.6	9.55	1828.91	CREW CHIEF Mike Wagner

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ENVIRONMENTAL WELL LOG 11-B94.GPJ GEOTEKENG.GDT 11/18/22



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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # 11-B94		BORING / WELL NO. MW3 (1 of 1)		Well Construction Details	
PROJECT Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD					
DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	SAMPLE	
				WL	NO. TYPE
	SURFACE ELEVATION <u>1830.54 ft</u>				
2	LEAN CLAY: a little sand, mottled black, moist, (CL)	TOPSOIL	ND	1	HSA
	LEAN CLAY WITH SAND: a little gravel, mottled brown and gray, moist, (CL)	GLACIAL TILL	ND	2	SS
			ND	3	SS
			ND	4	SS
			ND	5	SS
			ND	6	SS
			ND	7	SS
			ND	8	SS
25	Bottom of borehole at 25 feet.				
WATER LEVEL MEASUREMENTS				START <u>12-1-11</u>	COMPLETE <u>12-1-11 1:58 pm</u>
DATE	TIME	DEPTH BELOW		WATER	METHOD
		SURFACE	TOR / TOC	ELEVATION	3.25" ID Hollow Stem Auger
12-20-11	10:30 am	6.0	8.01	1825.02	
7-1-14	9:55 am	2.2	4.15	1828.88	
7-8-14	9:15 am	2.7	4.68	1828.35	
7-21-14	9:34 am	3.1	5.13	1827.90	CREW CHIEF Mike Wagner

6" STEEL CASING

1833.03 ft

Cement Grout

2" PVC Casing

Hydrated Bentonite

#30 Silica Sand

2" PVC Casing #10 Slot Screen

ENVIRONMENTAL WELL LOG 11-B94.GPJ GEOTEKENG.GDT 11/18/22

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # 11-B94		BORING / WELL NO. MW7 (1 of 1)		PROJECT Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD	
DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	SAMPLE	
				WL	NO. TYPE
	← SURFACE ELEVATION 1831.45 ft				
2	LEAN CLAY: very dark brown, moist, (CL)	FINE ALLUVIUM	ND	1	HSA
	LEAN CLAY WITH SAND: a little gravel, mottled brown and gray, moist, (CL)	GLACIAL TILL	ND	2	SS
			ND	3	SS
			ND	4	SS
			ND	5	SS
			ND	6	SS
			ND	7	SS
			ND	8	SS
			ND	9	SS
24½	LEAN CLAY WITH SAND: a little gravel, gray, moist to wet, sand lenses, small scale glacial fluvial interbedded deposits (CL)	GLACIAL TILL	ND	10	SS
			ND	11	SS
34½	Bottom of borehole at 34½ feet.				

Well Construction Details

6" STEEL CASING

1833.26 ft

Cement Grout

2" PVC Casing

Hydrated Bentonite

#30 Silica Sand

2" PVC Casing #10 Slot Screen

WATER LEVEL MEASUREMENTS					START <u>5-12-17</u> COMPLETE <u>5-12-17 11:01 am</u>
DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD
		SURFACE	TOR / TOC		
5-24-17	10:40 am	0.9	2.89	1830.37	3.25" ID Hollow Stem Auger
4-1-21	12:00 am	7.7	9.66	1823.60	
4-27-21	12:00 am	5.8	7.80	1825.46	
--	--	--	--	--	CREW CHIEF Mike Wagner

ENVIRONMENTAL WELL LOG 11-B94.GPJ GEOTEKENG.GDT 11/18/22

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # 11-B94		BORING / WELL NO. MW8 (1 of 1)		Well Construction Details	
PROJECT Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD					
DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	SAMPLE	
				WL	NO. TYPE
	SURFACE ELEVATION 1835.16 ft				
2	LEAN CLAY: very dark brown, moist, (CL)	FINE ALLUVIUM	ND	1	HSA
	LEAN CLAY WITH SAND: a little gravel, mottled brown gray, moist, sand lenses below 15' (CL)	GLACIAL TILL	ND	2	SS
			ND	3	SS
			ND	4	SS
			ND	5	SS
			ND	6	SS
			ND	7	SS
			ND	8	SS
			ND	9	SS
25	Bottom of borehole at 25 feet.				
WATER LEVEL MEASUREMENTS				START 5-12-17 COMPLETE 5-12-17 1:32 pm	
DATE	TIME	DEPTH BELOW SURFACE	TOR / TOC	WATER ELEVATION	METHOD
5-24-17	11:30 am	4.4	6.42	1830.56	3.25" ID Hollow Stem Auger
4-1-21	12:00 am	7.6	9.63	1827.35	
4-27-21	12:00 am	5.9	7.91	1829.07	
--	--	--	--	--	CREW CHIEF Mike Wagner

6" STEEL CASING

1836.98 ft

Cement Grout

2" PVC Casing

Hydrated Bentonite

#30 Silica Sand

2" PVC Casing #10 Slot Screen

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

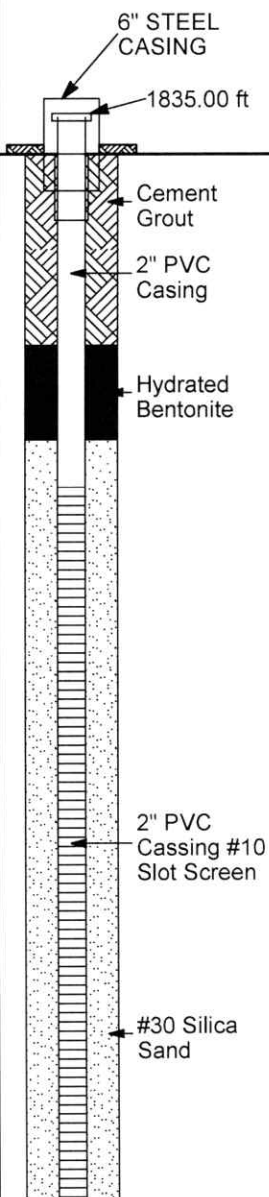
GEOTEK # **11-B94**

BORING / WELL NO. **MW11 (1 of 1)**

PROJECT **Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD**

DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	WL	SAMPLE	
					NO.	TYPE
	<u>SURFACE ELEVATION</u> 1833.00 ft					
2	LEAN CLAY : dark brown, moist, (CL)	FINE ALLUVIUM	ND		1	HSA
	LEAN CLAY WITH SAND : a little gravel, brown, moist, (CL) 2-4 1/2' - very weathered, gypsum crystals, macropores, iron oxide halos, horizontal fracturing. Sand lens (<2") at 9 1/2', possible vertical fracture off of sand, iron oxide staining of sand, iron oxide halos around pebbles, vertical fractures & macropores, A few minor sand lens (<1") below 17' with water.	WEATHERED GLACIAL TILL	ND		2	SS
			ND		3	SS
			ND		4	SS
			ND		5	SS
			ND		6	SS
			ND		7	SS
	Transition around 19'		ND		8	SS
20	LEAN CLAY WITH SAND : a little gravel, gray, moist, (CL)	UNWEATHERED GLACIAL TILL	ND		9	SS
22	Bottom of borehole at 22 feet.					

Well Construction Details



WATER LEVEL MEASUREMENTS

START 11-8-22 COMPLETE 11-8-22 11:54 am

DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD 3.25" ID Hollow Stem Auger	RECEIVED
		SURFACE	TOR / TOC			
--	--	--	--	--		
--	--	--	--	--		
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--	--	--	--	--	CREW CHIEF Mike Wagner	

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # **11-B94**

BORING / WELL NO. **MW12 (1 of 1)**

PROJECT **Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD**

DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	SAMPLE	
				WL NO.	TYPE
	<u>SURFACE ELEVATION</u> 1837.70 ft				
2	LEAN CLAY : dark brown, moist, (CL)	FINE ALLUVIUM	ND	1	HSA
	LEAN CLAY WITH SAND : a little gravel, brown, moist, (CL) Some mottling, iron oxide halos around pebbles & macropores, some gypsum crystallization, minor sand lenses (<1"). An example of vertical fracturing at 9 1/2-12', brown, pebbly weathered ("V" shaped base). Swelling clay at 12-14 1/2'. Sand lens (<1") at 17'. Transition around 17', more dense & less weathered.	WEATHERED GLACIAL TILL	ND	2	SS
			ND	3	SS
			ND	4	SS
			ND	5	SS
			ND	6	SS
			ND	7	SS
			ND	8	SS
			ND	9	SS
23	LEAN CLAY WITH SAND : a little gravel, gray, moist, (CL)	UNWEATHERED GLACIAL TILL	ND	10	SS
24 1/2	Bottom of borehole at 24 1/2 feet.				

Well Construction Details

6" STEEL CASING
1839.15 ft
Cement Grout
2" PVC Casing
Hydrated Bentonite
2" PVC Casing #10 Slot Screen
#30 Silica Sand

WATER LEVEL MEASUREMENTS				START	11-8-22	COMPLETE	11-8-22 1:47 pm
DATE	TIME	DEPTH BELOW		WATER	METHOD		
		SURFACE	TOR / TOC	ELEVATION	3.25" ID Hollow Stem Auger		
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--	--	--	--	--	CREW CHIEF Mike Wagner		

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # <u>11-B94</u>		BORING / WELL NO. <u>MW13 (1 of 1)</u>		Well Construction Details		
PROJECT <u>Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD</u>						
DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	SAMPLE		
				WL	NO. TYPE	
	<u>SURFACE ELEVATION</u> <u>1831.60 ft</u>					
2	<u>LEAN CLAY</u> : dark brown, moist, (CL)	FINE ALLUVIUM	ND		1 HSA	6" STEEL CASING
	<u>LEAN CLAY WITH SAND</u> : a little gravel, brown, moist, (CL) well mottled, brown, yellow, gray, iron oxide halos around macropores & pebbles, some gypsum crystallization, mainly horizontal fracturing, minor sand lens, coarse grained at 10'.	WEATHERED GLACIAL TILL	ND		2 SS	1833.05 ft
			ND		3 SS	Cement Grout
			ND		4 SS	2" PVC Casing
	Transition from 11-12'.		ND		5 SS	Hydrated Bentonite
12	<u>LEAN CLAY WITH SAND</u> : a little gravel, gray, moist, (CL) no iron oxide staining around pebbles, no vertical fracturing, no obvious signs of oxygenation	UNWEATHERED GLACIAL TILL	ND		6 SS	
			ND		7 SS	2" PVC Casing #10 Slot Screen
			ND		8 SS	#30 Silica Sand
			ND		9 SS	
			ND		10 SS	
24½	Bottom of borehole at 24½ feet.					
WATER LEVEL MEASUREMENTS				START <u>11-8-22</u>	COMPLETE <u>11-8-22 10:18 am</u>	
DATE	TIME	DEPTH BELOW SURFACE	TOR / TOC	WATER ELEVATION	METHOD 3.25" ID Hollow Stem Auger	RECEIVED JUN 01 2026 OFFICE OF WATER
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--	--	--	--	--		
--	--	--	--	--		
--	--	--	--	--	CREW CHIEF Mike Wagner	

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # <u>11-B94</u>		BORING / WELL NO. <u>MW14 (1 of 1)</u>		Well Construction Details	
PROJECT <u>Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD</u>					
DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	PID / FID	WL	SAMPLE
					NO.
	<u>SURFACE ELEVATION</u> <u>1838.00 ft</u>				
2	<u>LEAN CLAY</u> : dark brown, moist, (CL)	FINE ALLUVIUM	ND		1 HSA
	<u>LEAN CLAY WITH SAND</u> : a little gravel, brown, moist, (CL) some mottling, horizontal fractures with iron oxide staining. some iron oxide halos around minor vertical fractures. 1" of sand lens around 12'. minor sand lens (1/2" - 2") at 14' & 16'.	WEATHERED GLACIAL TILL	ND		2 SS
			ND		3 SS
			ND		4 SS
			ND		5 SS
			ND		6 SS
	Transition from 14 1/2-19 1/2', less fractured & more dense.		ND		7 SS
			ND		8 SS
19 1/2	<u>LEAN CLAY WITH SAND</u> : a little gravel, gray, moist, (CL)	UNWEATHERED GLACIAL TILL	ND		9 SS
22	Bottom of borehole at 22 feet.				
WATER LEVEL MEASUREMENTS				START <u>11-8-22</u>	COMPLETE <u>11-8-22 3:13 pm</u>
DATE	TIME	DEPTH BELOW SURFACE	TOR / TOC	WATER ELEVATION	METHOD 3.25" ID Hollow Stem Auger
--	--	--	--	--	
--	--	--	--	--	
--	--	--	--	--	
--	--	--	--	--	CREW CHIEF Mike Wagner

Well Construction Details

6" STEEL CASING

1840.35 ft

Cement Grout

2" PVC Casing

Hydrated Bentonite

2" PVC Casing #10 Slot Screen

#30 Silica Sand

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # **11-B94**

BORING / WELL NO. **TMW-2D (1 of 2)**

Well Construction Details

PROJECT **Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD**

DEPTH in FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION 1838.4 ft	GEOLOGIC ORIGIN	PID / FID	WL	SAMPLE	
					NO.	TYPE
0½	LEAN CLAY: moist black carbon-rich black to dark gray soil with organic fragments (CL)	TOPSOIL			1	SS
	FILL, MOSTLY LEAN CLAY WITH SAND: moist fractured and mottled brown clay with minor subangular carbonates and subrounded sand-sized particles of igneous origin	FILL			2	SS
4½	LEAN CLAY: moist black to dark gray topsoil with organic fragments including roots	BURIED TOPSOIL			3	SS
7	LEAN CLAY: moist iron-oxide stained brown clay with macropores and secondary gypsum (CL)	WEATHERED GLACIAL TILL			4	SS
9½	LEAN CLAY WITH SAND: moist brown clay with inclusions of angular carbonates, iron oxide, pebbles of igneous and metamorphic origin, and sub-vertical fractures (CL)	WEATHERED GLACIAL TILL			5	SS
12	LEAN CLAY WITH SAND: moist brown clay with mottled iron oxide bearing clasts. Angular carbonate clasts up to 3 cm in diameter (CL)	WEATHERED GLACIAL TILL			6	SS
	At 19.5 feet, 3-inch thick tan sand lens with sub-rounded clasts				7	SS
					8	SS
19.75	LEAN CLAY WITH SAND: moist brown weathered clay with iron oxide, angular carbonate clasts and subrounded pebbles (CL)	WEATHERED GLACIAL TILL			9	SS
					10	SS
25	(Text begins on next page)					

Traffic Box

1838.29 ft

Hydrated Bentonite

¾" PVC Casing

WATER LEVEL MEASUREMENTS

START 10-14-25 COMPLETE 10-14-25 2:15 pm

DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD
		SURFACE	TOR / TOC		
10-22-25	11:12 am	24.8	24.77	1813.53	3.25" ID Hollow Stem Auger (0-25')
11-10-25	8:15 am	24.8	24.79	1813.51	DT22 - Dual Tube (25-50')
--	--	--	--	--	
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CREW CHIEF Roy Hanson

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ENVIRONMENTAL WELL LOG 11-B94A.GPJ GEOTEKENG.GDT 12/8/25



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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # **11-B94**

BORING / WELL NO. **TMW-2D (2 of 2)**

Well Construction Details

PROJECT **Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD**

DEPTH in FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>1838.4 ft</u>	GEOLOGIC ORIGIN	PID / FID	WL	SAMPLE	
					NO.	TYPE
27	SAND: wet brown sand and poorly sorted pebble lenses, brown clay in interstitial volume, poorly consolidated (SP) <i>(Continued from previous page)</i>	GLACIOFLUVIAL DEPOSIT			11	DT
30	LEAN CLAY: moist brown compact clay with minimal pores with very little sand, vertical to subhorizontal fractures present (CL)	WEATHERED GLACIAL TILL				
33	SAND: moist brown coarse-grained sand with small pebbles and brown clay in interstitial space (SP)	GLACIOFLUVIAL DEPOSIT			12	DT
35	LEAN CLAY: moist brown and gray compact clay with silt-sized particles (CL)	UNWEATHERED GLACIAL TILL				
40	SAND: moist gray silt-bearing sand with large angular to subrounded pebbles (SP)	GLACIOFLUVIAL DEPOSIT			13	DT
	LEAN CLAY: moist gray clay, no observable fractures or oxidation. (CL)	UNWEATHERED GLACIAL TILL			14	DT
					15	DT
50	Bottom of borehole at 50 feet.					

3/4" x 15'
PVC #10 Slot
Screen

#40 Silica
Sand

WATER LEVEL MEASUREMENTS

START 10-14-25 COMPLETE 10-14-25 2:15 pm

DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD
		SURFACE	TOR / TOC		
10-22-25	11:12 am	24.8	24.77	1813.53	3.25" ID Hollow Stem Auger (0-25') DT22 - Dual Tube (25-50')
11-10-25	8:15 am	24.8	24.79	1813.51	
--	--	--	--	--	
--	--	--	--	--	CREW CHIEF Roy Hanson

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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # **11-B94**

BORING / WELL NO. **TMW-14D (1 of 2)**

Well Construction Details

PROJECT **Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD**

DEPTH in FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>1840.0 ft</u>	GEOLOGIC ORIGIN	PID / FID	WL	SAMPLE	
					NO.	TYPE
	LEAN CLAY: moist black carbon-rich soil with organic fragments including grass and roots (CL)	TOPSOIL			1	SS
4½					2	SS
	LEAN CLAY WITH SAND: moist oxide-bearing brown clay with ~4 mm clasts of sub-angular carbonates, tan <1 inch thick sand lens at 6.5 feet (CL)	WEATHERED GLACIAL TILL			3	SS
7					4	SS
	LEAN CLAY: moist, brown clay with red oxide clasts and halos around macropores, vertical to subvertical fractures present (CL)	WEATHERED GLACIAL TILL			5	SS
9½					6	SS
	LEAN CLAY: moist, mottled brown clay with patches of gray clay, pebbles up to 3 cm long (CL)	WEATHERED GLACIAL TILL			7	SS
14½					8	SS
	LEAN CLAY: moist brown clay with minor inclusions of sub-rounded sand particles, pores and vertical fractures present (CL)	WEATHERED GLACIAL TILL			9	SS
18					10	SS
	SAND: moist, poorly consolidated water-saturated tan to brown sand with angular to sub-rounded clasts, feldspar and minor opaque minerals present (SP)	GLACIOFLUVIAL DEPOSIT				
22						
	LEAN CLAY: moist, well-consolidated brown clay with iron oxide staining (CL)	WEATHERED GLACIAL TILL				
25	(Text begins on next page)					

Traffic Box
1839.96 ft

Hydrated Bentonite

1" PVC Casing

WATER LEVEL MEASUREMENTS

START 10-14-25 COMPLETE 10-14-25 9:30 am

DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD
		SURFACE	TOR / TOC		
10-22-25	10:55 am	20.7	20.34	1819.26	3.25" ID Hollow Stem Auger (0-25')
11-10-25	8:15 am	21.6	21.19	1818.41	DT22 - Dual Tube (25-50')
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CREW CHIEF Roy Hanson

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ENVIRONMENTAL WELL LOG 11-B94A.GPJ GEOTEKENG.GDT 12/9/25



GEOTEK ENGINEERING
& TESTING SERVICES, INC.
909 E 50th St N,
Sioux Falls, SD 57104
(605) 335-5512 Fax (605) 335-0773
www.geotekeng.com

ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # 11-B94		BORING / WELL NO. TMW-14D (2 of 2)		Well Construction Details		
PROJECT Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD						
DEPTH in FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>1840.0 ft</u>	GEOLOGIC ORIGIN	PID / FID	WL	SAMPLE	
					NO.	TYPE
27	LEAN CLAY: moist light brown water-saturated clay with angular pores and silt-sized particles (CL) (Continued from previous page) LEAN CLAY: moist red to brown clay, compact and lacking pores or observable inclusions (CL) LEAN CLAY: moist brown clay with subrounded sand and poorly sorted pebbles of metamorphic origin (CL)	WEATHERED GLACIAL TILL			11	DT
28		WEATHERED GLACIAL TILL				
		WEATHERED GLACIAL TILL				
34	LEAN CLAY WITH SAND: moist dark gray clay with sub-angular quartz pebbles, no observed oxidation, halos, or fractures (CL)	UNWEATHERED GLACIAL TILL			12	DT
42	SAND: moist moderately-consolidated tan quartz and feldspar-bearing sand containing gray clay, minor interstitial iron oxide is present (SP)	GLACIOFLUVIAL DEPOSIT			13	DT
45	LEAN CLAY WITH SAND: moist compact gray clay with inclusions of sand to sub-rounded pebble sized particles (CL)	UNWEATHERED GLACIAL TILL			14	DT
50	Bottom of borehole at 50 feet.				15	DT

1" x 15' PVC
#10 Slot
Screen

#40 Silica
Sand

WATER LEVEL MEASUREMENTS				START <u>10-14-25</u>	COMPLETE <u>10-14-25 9:30 am</u>
DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD
		SURFACE	TOR / TOC		
10-22-25	10:55 am	20.7	20.34	1819.26	3.25" ID Hollow Stem Auger (0-25')
11-10-25	8:15 am	21.6	21.19	1818.41	DT22 - Dual Tube (25-50')
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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # 11-B94		BORING / WELL NO. TMW-15D (1 of 2)		Well Construction Details		
PROJECT Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD						
DEPTH in FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION 1831.4 ft	GEOLOGIC ORIGIN	PID / FID	SAMPLE		
				WL	NO. TYPE	
4 1/2	LEAN CLAY: moist black soil with organic fragments including grass and roots (CL)	TOPSOIL			1 SS	Traffic Box 1831.25 ft Hydrated Bentonite 3/4" PVC Casing
				2 SS		
12	LEAN CLAY WITH SAND: moist mostly brown clay with mottled isolated gray regions, large sub-rounded pebble (<2 cm) inclusions, iron-oxide present (CL)	WEATHERED GLACIAL TILL		3 SS		
			4 SS			
			5 SS			
14 1/2	LEAN CLAY: moist dark gray fine-grained clay, no iron-oxide, sand, or pebbles, or fractures present (CL)	UNWEATHERED GLACIAL TILL		6 SS		
			7 SS			
20	LEAN CLAY WITH SAND: gray, moist, dark gray clay with small sub-rounded pebbles, no iron oxide (CL)	UNWEATHERED GLACIAL TILL		8 SS		
22	LEAN CLAY WITH SAND: moist water-saturated tan sand with sub-rounded pebbles (CL)	UNWEATHERED GLACIAL TILL		9 SS		
25	LEAN CLAY: moist dark gray clay with sand and some carbonate inclusions, no iron oxide present and very few pores (CL)	UNWEATHERED GLACIAL TILL		10 SS		
25	(Text begins on next page)					
WATER LEVEL MEASUREMENTS				START 10-13-25	COMPLETE 10-13-25 3:15 pm	
DATE	TIME	DEPTH BELOW		WATER ELEVATION	METHOD	
		SURFACE	TOR / TOC		3.25" ID Hollow Stem Auger (0-25')	
10-22-25	10:31 am	33.6	33.52	1797.78	DT22 - Dual Tube (25-50')	
11-10-25	8:15 am	33.4	33.30	1798.00		
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ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

GEOTEK # <u>11-B94</u>		BORING / WELL NO. <u>TMW-15D (2 of 2)</u>		Well Construction Details	
PROJECT <u>Semi-Annual Soil Monitoring Program, Tech Ord, 47600 180th Street, Clear Lake, SD</u>					
DEPTH in FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>1831.4 ft</u>	GEOLOGIC ORIGIN	PID / FID	SAMPLE	
				WL	NO. TYPE
41	LEAN CLAY WITH SAND: moist dark gray clay with sub-angular to sub-rounded pebble-sized carbonate clasts (CL) (Continued from previous page)	UNWEATHERED GLACIAL TILL		11	DT
				12	DT
				13	DT
				14	DT
50	LEAN CLAY WITH SAND: moist dark gray clay with inclusions of sand to angular pebble-sized particles including shale (CL)	UNWEATHERED GLACIAL TILL		15	DT
Bottom of borehole at 50 feet.					
WATER LEVEL MEASUREMENTS				START <u>10-13-25</u>	COMPLETE <u>10-13-25 3:15 pm</u>
DATE	TIME	DEPTH BELOW SURFACE TOR / TOC	WATER ELEVATION	METHOD	
10-22-25	10:31 am	33.6 33.52	1797.78	3.25" ID Hollow Stem Auger (0-25')	
11-10-25	8:15 am	33.4 33.30	1798.00	DT22 - Dual Tube (25-50')	
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3/4" x 15' PVC #10 Slot Screen

#40 Silica Sand

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