

Site Name: 94Chalstrom-1 W-number: 65888

Location: T88N R30W sec. 2 SW1/4SE1/4SW1/4SW1/4 (gps location)

Landscape position: adjacent to drainage ditch-- near head of linked-depression system

Parent material: wetland sediments/sand

Vegetation: stream buffer

Slope: 0-1%

Elevation: approximately 1140 ft. (topo map)

Quad: Moorland

Date drilled/described: 12/8/1999 / 03/10/2000

Field Crew: Aquadrill-drillers; GSB-D.Quade; NRCS-R.Wisner,

Described by: Solum: Robin Wisner (NRCS). Parent Material: D.J. Quade (Munsell colors)

Landowner: Vern Chalstrom. Address: 1354 230th St. Moorland, IA 50566

Remarks: 1.6 inch diameter core, mapped as Okoboji. Most likely Klossner muck (Wisner comm.).

Depth (ft)	Soil Horizon (weathering zone)	Description
DeForest Formation-- Woden Mbr. (F(h))		
0-0.7	Ap	black (N2/0) muck; weak fine granular; friable; noneffervescent; abrupt smooth boundary
0.7-1.7	A1	black (N2/0) muck; weak fine granular; friable; noneffervescent; clear smooth boundary
1.7-2.3	A2	black (N2/0) muck to silty clay loam; weak fine granular and weak fine subangular blocky; friable; noneffervescent; clear smooth boundary
2.3-3.1	Bg1	very dark gray (5Y3/1) silty clay loam; weak medium subangular blocky, friable, effervescent; clear smooth boundary; few snail shells
3.1-4.0	Bg2	olive gray (5Y4/4) silty clay loam; weak fine prismatic to weak medium subangular blocky, friable, effervescent; gradual smooth boundary; few snail shells
4.0-5.0	UU	olive gray (5Y4/4) silty clay loam; massive, friable, effervescent; gradual smooth boundary
5.0-6.0	UU	olive gray (5Y4/4) silty clay loam; massive, friable, effervescent
6.0-6.8		no recovery
6.8-7.1	UU	dark gray (5Y4/1) silt loam; pervasive accumulations of light olive gray (5Y6/2) marl, friable; appears massive; violently effervescent throughout

7.1-7.35	UU	dark gray to very dark gray (5Y4/1-3/1) silt loam; few, discontinuous accumulations of light olive gray (5Y6/2) marl, friable; appears massive; plant fragments; violently effervescent throughout
7.35-8.25	UU	dark gray to very dark gray (5Y4/1-3/1) silt loam to silty clay loam; few, discontinuous accumulations of light olive gray (5Y6/2) marl, friable; appears massive; very thin fine-medium sand lense <.01-.02 ft thick; rare snail shell; violently effervescent throughout
8.25-8.53	UU	dark gray (4/N) silt loam to silty clay loam; friable; appears massive; very thin light olive gray-olive gray (5Y6/2-4/2) fine-medium sand lense at 8.31-8.32; common plant fragments; violently effervescent throughout
8.53-8.7	UU	olive gray-olive gray (5Y6/2-4/2) loamy fine to medium w/ few fine pebbles at base of unit; loose to friable; appears vaguely stratified; common plant fragments; strongly effervescent throughout
8.7-9.0	UU	dark gray (4/N) silty clay loam; friable; appears massive; plant fragments and carbon; violently effervescent throughout
9.0-10.1	UU	no recovery; problems with compression and sand at base of tube
10.1-10.4	UU	dark gray (4/N) silty clay loam; friable; appears massive; degraded plant fragments; violently effervescent throughout
10.4-10.7	UU	dark gray (4/N) silty clay loam interbedded with thin light gray to gray fine sand (5Y7/1-5/1); couplets ~.01-.02 ft.; friable; laminated; degraded plant fragments; violently effervescent throughout
10.7-11.05	UU	light gray to gray fine sand (5Y7/1-5/1) interbedded with few thin beds of dark gray (4/N) silty clay loam ~.02 ft thick ; loose-friable; laminated; no plant fragments; violent effervescent throughout

Noah Creek Formation--Undiff. (S(h))

11.05-11.5	UU	light gray to gray very fine silty sand (5Y7/1-5/1); laminated; no organics noted; strongly effervescent throughout
11.5-12	UU	light gray to gray very fine to fine silty sand (5Y7/1-5/1); vaguely stratified to laminated; strongly effervescent throughout
12-12.9		no recovery
12.9-15.7	UU	olive gray to light olive gray (5Y5/2-6/2) fine sand to some medium medium sand with few fine coarse fragments; loose; single grain; vague stratification; fine shale fragments abundant throughout unit; fine pebble bands composed mostly of shale clasts at 13.75-13.8 ft and 14.9-15 ft; strongly effervescent

DowsFormation--Alden Member (Dmm)

15.7-24	UU	very dark gray (5Y4/1) loam diamicton; massive; fine shale fragments common; strongly effervescent
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