

Core/Profile: PS-1
 Location: Bleyenberg - meander scar
 Legal description: NW ¼ Section 4 T105N R44W
 County: Pipestone
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1606 feet
 Topo. Map: Edgerton North
 Remarks: Bleyenberg property; Rock River; core closest to Rock River; in meander scar; same elevation as PS-2

Depth cm(ft)	Horizon or Zone	Description
0-4 (0.1)	A1	black (10YR2/1) loam; weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
4-60 (.1-2.0)	A2	black (10YR2/1) loam; no structure to weak, fine, subangular blocky; friable; slightly effervescent; gradual lower boundary.
60-95 (2.0-3.1)	CB	very dark grayish brown (10YR3/2) loam; no structure to weak, medium, prismatic; friable; slightly effervescent; gradual lower boundary; very weak peds.
95-168 (3.1-5.5)	C1	very dark grayish brown to very dark gray (10YR3/2-2.5Y3/0) loam; mottles are few, medium, dark reddish brown (5YR3/4); massive; friable; strongly to slightly effervescent; clear lower boundary; common, interbedded fine sand lenses, pale brown (10YR6/3).
168-201 (5.5-6.6)	2C2	yellowish brown (10YR5/4) sand and gravel; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); well-rounded, coarse exotic pebbles.
201-227 (6.6-7.5)		no recovery; core refused.
227-298 (7.5-9.8)		auger refused on cobble at 298 cm; no sample remained on auger, suggesting sand.

Core/Profile: PS-2
 Location: Bleyenberg - meander scar
 Legal description: NW ¼ Section 4 T105N R44W
 County: Pipestone
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1606 feet
 Topo. Map: Edgerton North
 Remarks: Bleyenberg property; Rock River; in meander scar; 38 meters from PS-1; same elevation as PS-1

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	A	black (10YR2/1) loam; weak, fine, subangular blocky; friable; slightly effervescent; clear lower boundary.
12-60 (.4-2.0)	BC	black (10YR2/1) loam; no structure to weak, medium, prismatic; friable; strongly effervescent; clear lower boundary.
60-78 (2.0-2.6)	C1	very dark grayish brown (10YR3/2) fine sandy loam; massive; very friable; violently effervescent; clear lower boundary.
78-99 (2.6-3.3)	C2	very dark grayish brown (10YR3/2) coarse sandy loam; single grain; loose; violently effervescent; clear lower boundary.
99-158 (3.3-5.2)	C3	very dark grayish brown to very dark gray (10YR3/2-3/1) loam; massive; friable; violently effervescent; abrupt lower boundary; few, fine shell fragments; common, thin, medium sand lenses increasing frequency downward; compressed 5 cm.
158-171 (5.2-5.6)	2C4	very dark grayish brown to dark brown (10YR3/2-3/3) clay loamy sand; single grain; very friable; strongly effervescent; unknown lower boundary (end of tubes); common, well-rounded, exotic pebbles; few fine shell fragments; core rejected.
171-193 (5.6-6.3)		no recovery.
Auger Sample:		
197-253 (6.3-8.3)		very dark grayish brown (10YR3/2) sandy clay loam; massive; firm; strongly effervescent; possible reworked till(?); auger rejected.

Core/Profile: PS-3
 Location: Bleyenberg
 Legal description: NE ¼ NW ¼ Section 4 T105N R44W
 County: Pipestone
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1607 feet
 Topo. Map: Edgerton North
 Remarks: Bleyenberg Property; Rock River; on plain above meander scar (location of PS-2); 1 foot higher than PS-2

Depth cm(ft)	Horizon or Zone	Description
0-19 (0-.6)	A1	black (10YR2/1) loam; weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
19-39 (.6-1.3)	A2	black (10YR2/1) loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; clear lower boundary.
39-150 (1.3-4.9)	C1	black to very dark brown (10YR2/1-2/2) loam; massive; friable; strongly effervescent; abrupt lower boundary; few to common mollusk shells concentrated at selected depths; collected shell hash at 140-145 cm for screening.
150-208 (4.9-6.8)	C2	very dark grayish brown to dark gray (10YR3/2-4/1) sandy loam; massive; very friable; violently effervescent at top, grading down to slightly effervescent; abrupt lower boundary; common, coarse pebbles increasing downward with beds of finer grains.
208-213 (6.8-7.0)	2C3	yellowish brown (10YR5/4) coarse sand; common, coarse, yellowish brown (10YR5/6) mottles at top; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes).
213-247 (7.0-8.1)		no recovery; refused on coarse sand and gravel.
Auger Samples:		
247-290 (8.1-9.5)		no recovery; driller's notes: "sand and gravel approximately 210-290 cm."
290-390 (9.5-12.8)	3Cg	greenish gray (2.5GY5/1) sandy clay loam to clay loam; massive; very firm; patchy effervescence due to carbonate grains; unknown lower boundary (end of tubes); possible reworked till(?).
390-394 (12.8-12.9)	4C	no recovery (of coarse sand and gravel); auger refused.

Core/Profile: PS-4
 Location: Bleyenberg - meander scar
 Legal description: NE ¼ NW ¼ Section 4 T105N R44W
 County: Pipestone
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1607 feet
 Topo. Map: Edgerton North
 Remarks: Bleyenberg Property; Rock River; in a meander scar; same elevation as PS-3

Depth cm(ft)	Horizon or Zone	Description
0-17 (0-.6)	A	black (10YR2/1) loam; weak to moderate, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
17-91 (.6-3.0)	AC	black (10YR2/1) loam; no structure to weak, fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; core sample disturbed in this area.
91-127 (3.0-4.2)		not recovered.
127-148 (4.2-4.9)	C1	very dark grayish brown (10YR3/2) silty clay loam; mottles are common, medium, faint, yellowish brown (10YR5/6); massive; firm; noneffervescent; clear lower boundary; sample disturbed.
148-192 (4.9-6.3)	C2	gray to grayish brown (5Y5/1-2.5Y5/2) silty clay loam; mottles are many, coarse, prominent, strong brown (7.5YR5/8); massive; firm; noneffervescent; gradual lower boundary.
192-227 (6.3-7.5)	C3	olive gray (5Y5/2) silt loam to loam; massive; friable; strongly effervescent; unknown lower boundary (end of tubes); fining-up sequence.
227-254 (7.5-8.3)		not recovered (probably compressed).
254-288 (8.3-9.5)	Cg	greenish gray (5GY5/1) fine sandy loam; massive; very friable; strongly effervescent; unknown lower boundary (end of tubes); core sample has an oxidation rind; grades to coarse silt loam in places; medium sand lenses are yellowish brown (10YR5/4); large pebble at bottom; few pebbles.
288-299 (9.5-9.8)		not recovered.
Auger Sample:		
342-402 (11.2-13.2)		dark gray to dark grayish brown (2.5Y4/1-4/2) silty clay loam; massive; very firm; slightly effervescent; auger refused.

Core/Profile: PS-5

Location: Bleyenberg - possible meander scar

Legal description: NE ¼ NW ¼ Section 4 T105N R44W

County: Pipestone

Parent material:

Vegetation: Grasses

Slope: 0-2%

Elevation: 1609 feet

Topo. Map: Edgerton North

Remarks: Bleyenberg property; Rock River; in a broad, low plain that may be a meander scar; 2 feet higher in elevation than PS-4

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	Ap	black (10YR2/1) silt loam; weak to moderate, fine, subangular blocky; friable; noneffervescent; abrupt lower boundary.
10-31 (.3-1.0)	A	black (10YR2/1) silt loam; weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
31-94 (1.0-3.1)	Bw	dark brown to dark yellowish brown (10YR3/3-4/4) silt loam; weak, medium, prismatic; friable; noneffervescent; abrupt lower boundary; possible laminar bedding remnants.
94-100 (3.1-3.3)	2C	dark yellowish brown (10YR4/4) sandy gravel; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); core refused.
Auger Sample:		
103-160 (3.3-5.3)		as above except violent effervescence; exotic pebbles; auger refused.

Core/Profile: PS-6
 Location: Bleyenberg - high plain
 Legal description: NE ¼ NW ¼ Section 4 T105N R44W
 County: Pipestone
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1611 feet
 Topo. Map: Edgerton North
 Remarks: Bleyenberg property; Rock River; on a high plain; 2 feet higher in elevation than PS-5

Depth cm(ft)	Horizon or Zone	Description
0-31 (0-1.0)	A	black to very dark brown (10YR2/1-2/2) silt loam; weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
31-76 (1.0-2.5)	Bw	very dark grayish brown to dark yellowish brown (10YR3/2-4/4) silt loam; mottles are many, medium, yellowish brown (10YR5/6); no structure to weak, medium, prismatic, parts to weak to moderate, fine, subangular blocky; friable; noneffervescent; abrupt lower boundary.
76-80 (2.5-2.6)	2C	dark brown (10YR3/3) gravel; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); core refused.
Auger Sample:		
126-261 (4.1-8.6)		brown to dark brown (10YR4/3) sandy gravel; single grain; loose; violently effervescent; unknown lower boundary; probable continuance of 2C above; auger refused.

Core/Profile: PS-7

Location: Fennicle - valley

Legal description: SW ¼ SW ¼ Section 6 T106N R44W

County: Pipestone

Parent material:

Vegetation: Grasses

Slope: 2-5%

Elevation: 1667 feet

Topo. Map: Holland

Remarks: Fennicle property; Rock River: halfway up valley on western side of Rock River; 100 meters west of PS-8; 6-8 feet higher in elevation than PS-8

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	Ap	black (10YR2/1) silt loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; plow zone.
10-40 (.3-1.3)	AC	black (10YR2/1) silt loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; clear lower boundary.
40-98 (1.3-3.2)	C1	very dark grayish brown (10YR3/2) clay loam down to sandy clay loam; mottles are many, fine, (7.5YR5/6-6/8); unknown structure (probably massive); firm; noneffervescent; disturbed core sample; increasing pebbles with depth.
98-127 (3.2-4.2)		no recovery.
127-130 (4.2-4.3)	C1(as above)	very dark grayish brown (10YR3/2) to (2.5Y3/2); same as C-horizon above; pebbles stone line at bottom.
130-154 (4.3-5.1)	C2	very dark grayish brown (10YR3/2) silty clay loam diamicton; mottles are many, fine, reddish yellow (7.5YR6/8); massive; firm; noneffervescent; abrupt lower boundary; possible weathered or reworked till.
154-364 (5.1-11.9)	C3	light brownish gray (10YR6/2) to (2.5Y6/2) silty clay loam diamicton; mottles are many, coarse, red to light red (2.5YR6/8-4/6); massive; firm; noneffervescent; gradual lower boundary; no recovery of approximately 16 cm; few pebbles; difficult core extraction.
364-424 (11.9-13.9)	C4	as above except grayish brown (2.5Y5/2), strong effervescence, and diffuse lower boundary.
424-458 (13.9-15.0)	C5	grayish brown (2.5Y5/2) silty clay loam diamicton; many, coarse, (2.5YR4) mottles and few, medium, greenish gray (5GY6/1) mottles; massive; very firm; strongly effervescent; few MnOx soft concretions; remnants of a thin laminar unit consisting of coarse silt loam; difficult core extraction; common small pebbles.
Auger Sample:		
458-535 (15.0-17.6)		as above; auger refused on stiff clays.

Core/Profile: PS-8
 Location: Fennicle - flood plain
 Legal description: SW ¼ SW ¼ Section 6 R44W
 County: Pipestone
 Parent material: Alluvium
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1659 feet
 Topo. Map: Holland
 Remarks: Fennicle property; Rock River valley floodplain; on western side of river; 6-8 feet lower in elevation than PS-7

Depth cm(ft)	Horizon or Zone	Description
0-30 (0-1.0)	A	black (10YR2/1) silt loam; moderate, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
30-91 (1.0-3.0)	BA	black to very dark brown (10YR2/1-2/2) silt loam; weak, medium, prismatic, parting to weak to moderate, fine, subangular blocky; friable; noneffervescent; gradual lower boundary.
91-120 (3.0-3.9)	BC	brown to dark brown (10YR4/3) silt loam; massive; friable; noneffervescent; gradual lower boundary; coarse sand grains apparent.
120-127 (3.9-4.2)		no recovery.
127-187 (4.2-6.1)	C1	very dark grayish brown (10YR3/2) down to brown to dark brown (10YR4/3) silt loam to loam; massive; friable; strongly effervescent; clear lower boundary; fining-up sequence; many coarse sand grains with depth.
187-199 (6.1-6.5)	C2(CAb?)	very dark grayish brown to very dark brown (10YR3/2-2/2) silty clay loam; massive; firm; strongly effervescent; clear lower boundary.
199-235 (6.5-7.7)	C3	brown to dark brown to brown (10YR4/3-5/3) silty clay loam down to sandy loam; massive; firm to loose; strongly effervescent; unknown lower boundary; fining-up sequence; brownish yellow (10YR6/8) mottles in sandy loam.
235-266 (7.7-8.7)		no recovery.
266-304 (8.7-10.0)	2C4	yellowish brown (10YR5/6) sandy loam; massive; very friable; strongly effervescent; unknown lower boundary (end of tubes); many fine to medium pebbles; loamier beds common; core refused.
Auger Sample:		
400-454 (13.1-14.9)		olive brown (2.5Y4/4) coarse sand with fine pebbles; auger refused.

Core/Profile: PS-9
 Location: Vreeman - by river
 Legal description: SE ¼ SE ¼ Section 19 T106N R44W
 County: Pipestone
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1636 feet
 Topo. Map: Edgerton North
 Remarks: Vreeman property; Rock River; core closest to river; 1 foot higher in elevation than PS-10

Depth cm(ft)	Horizon or Zone	Description
0-22 (0-.7)	A	very dark brown (10YR2/2) loam; weak to moderate, fine, subangular blocky; friable; slightly to strongly effervescent; abrupt lower boundary; probable "recent" overwash.
22-58 (.7-1.9)	2Ab	black (10YR2/1) loam; no structure to weak, very fine, subangular blocky; friable; strongly effervescent; gradual lower boundary.
58-135 (1.9-4.4)	2C1	very dark grayish brown (10YR3/2) loam; massive; friable; strongly effervescent; diffuse lower boundary; compressed 6 cm.
135-190 (4.4-6.2)	2C2	very dark grayish brown (10YR3/2) loam; mottles are common, silt lenses of light brownish gray to light gray (10YR6/2-7/2) color and few, medium, strong brown (7.5YR4/6); massive; friable; violent down to slightly effervescent; gradual lower boundary; common, coarse sand grains among thin to laminar textural beds; few fine MnOx stains.
190-211 (6.2-6.9)	3C3	very dark grayish brown to dark grayish brown (10YR3/2-2.5Y4/2) coarse sandy loam; mottles are few, coarse, strong brown (7.5YR4/6); single grain; loose; slightly effervescent; unknown lower boundary (end of tubes).
211-248 (6.9-8.1)		no recovery (sands).
Auger Samples:		
319-454 (10.5-14.9)		dark gray (2.5Y4/0) clay loam; very firm; slightly effervescent.
523-658 (17.2-21.6)		very dark gray (2.5Y3/0) clay loam diamictic; extremely firm; slightly effervescent; many exotic pebbles; probable till; auger refused.

Core/Profile: PS-10
 Location: Vreeman
 Legal description: SE ¼ SE ¼ Section 19 T106N R44W
 County: Pipestone
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1635 feet
 Topo. Map: Edgerton North
 Remarks: Vreeman property; Rock River; 1 foot higher in elevation than PS-11

Depth cm(ft)	Horizon or Zone	Description
0-54 (0-2.0)	Ap	mixed clods and layers of yellowish brown (10YR5/6) silty clay loam and black (10YR2/1) loam; abrupt lower boundary; fill.
54-68 (2.0-2.2)	CA	very dark gray (10YR3/1) silt loam; massive; friable; strongly effervescent; clear lower boundary; compressed core approximately 59 cm.
68-127 (2.2-4.2)		no recovery.
127-164 (4.2-5.4)	CA	very dark gray (10YR3/1) silt loam; massive; friable; strongly effervescent; clear lower boundary; same as 54-68 cm.
164-178 (5.4-5.8)	C	very dark grayish brown (10YR3/2) sandy loam; mottles are few, medium, brownish yellow (10YR6/8); massive; very friable; strongly effervescent; unknown lower boundary (end of tubes); few shell fragments; refused on clay.
Auger Samples:		
256-391 (8.4-12.8)		very dark grayish brown (10YR3/2) coarse sandy loam; single grain; loose; strongly effervescent.
447-582 (14.7-19.1)		dark gray (2.5Y4/0) clay loam diamicton; massive; extremely firm; slightly effervescent; common, coarse sand and few, fine pebbles.

Core/Profile: PS-11

Location: Vreeman - terrace

Legal description: SE ¼ SE ¼ Section 19 T106N R44W

County: Pipestone

Parent material:

Vegetation: Grasses

Slope: 0-2%

Elevation: 1634 feet

Topo. Map: Edgerton North

Remarks: Vreeman property; Rock River; on terrace surrounded by scour riffles; 1 foot lower in elevation than PS-10; 9 feet lower than PS-12

Depth cm(ft)	Horizon or Zone	Description
0-25 (0-.8)	C	very dark gray to very dark grayish brown (10YR3/1-3/2) silt loam; massive; friable; strongly effervescent; clear lower boundary; overwash.
25-42 (.8-1.4)	2A	black (10YR2/1) silt loam; weak, very fine, subangular blocky; friable; strongly effervescent; gradual lower boundary.
42-78 (1.4-2.6)	2C	very dark grayish brown (10YR3/2) silt loam to fine sandy loam; massive; friable to very friable; strongly effervescent; abrupt lower boundary; common, fine snail shells.
78-127 (2.6-4.2)		no recovery.
127-161 (4.2-5.3)	2C	same as 42-78 cm above, except increasing sand size and frequency downward and few, brownish yellow (10YR6/8) coarse mottles.
161-189 (5.3-6.2)	3Oeb	black (10YR2/1) muck; strongly effervescent; clear lower boundary; collected 177-182 for screening - seeds of <i>Chenopodium sp.</i> , <i>Cyperaceae (Scirpus sp.)</i> , <i>Helianthus sp.</i> , <i>Myrica sp.</i> , <i>Myriophyllum sp.</i> , <i>Potamogeton sp.</i> , and wood C-14 dated at 150±40 BP.
189-221 (6.2-7.3)	4C	black (10YR2/1) very coarse sandy loam; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); common, bedded, exotic pebbles; few shell fragments; core refused.
Auger Samples:		
324-459 (10.6-15.1)		very dark gray (2.5Y3/0) clay loam diamicton; massive; very firm; slightly effervescent; common, coarse, exotic sand grains.
575-710 (18.9-23.3)		as above; auger refused.

Core/Profile: PS-12

Location: Vreeman - high terrace

Legal description: SE ¼ SE ¼ Section 19 T106N R44W

County: Pipestone

Parent material:

Vegetation: Grasses

Slope:

Elevation: 1643 feet

Topo. Map: Edgerton North

Remarks: Vreeman property; Rock River; 2 feet higher in elevation than PS-13; may be "till bench"

Depth cm(ft)	Horizon or Zone	Description
0-28 (0-.9)	AB	dark grayish brown (10YR4/2) loam; many, medium, yellowish brown (10YR5/6) mottles that are clods of sediment from below; no structure to weak, fine, subangular blocky; friable; strongly effervescent; gradual lower boundary; possible pedisodiment.
28-120 (.9-3.9)	Bt1	yellowish brown (10YR5/6) clay loam diamicton; few, fine, reddish yellow (7.5YR6/8) mottles near lower boundary; weak, medium, subangular blocky, parts to moderate, medium, prismatic; common, thin, discontinuous, dark yellowish brown (10YR4/4) cutans; very firm; strongly effervescent; diffuse lower boundary; common to many weathered carbonate pebbles; few exotic coarse sand grains.
120-201 (3.9-6.6)	Bt2	olive brown to light olive brown (2.5Y4/4-5/4) clay loam diamicton; mottles are common, medium, reddish yellow (7.5YR6/8), also few, medium, dark gray (2.5Y4/0), mottles; moderate, coarse, prismatic; cutans as above; very firm; strongly effervescent; unknown lower boundary (end of tubes); common to many weathered carbonate pebbles; few coarse sand grains; 6 cm of core not recovered.
201-206 (6.6-6.8)		not recovered; core refused.
Auger Samples:		
242-377 (7.9-12.4)		light olive brown (2.5Y5/4) clay loam diamicton; mottles are common, medium, dark gray (2.5Y4/0) and strong brown (7.5YR5/6); massive; very firm; slightly effervescent.
410-545 (13.5-17.9)		grayish brown (2.5Y5/2) clay loam diamicton; mottles are common, medium, dark gray (2.5Y4/0) and strong brown (7.5YR5/6); massive; very firm; slightly effervescent.
629-764 (20.6-25.1)		very dark grayish brown to dark gray (2.5Y3/2-4/0) clay loam diamicton; massive; very firm; auger refused in clay.

Core/Profile: PS-13

Location: Vreeman - low area on elevated terrace

Legal description: SE ¼ SE ¼ Section 19 T106N R44W

County: Pipestone

Parent material:

Vegetation: Grasses

Slope: 0-5%

Elevation: 1641 feet

Topo. Map: Edgerton North

Remarks: Vreeman property; Rock River; in low area on terrace elevated above scours; near intersection between County Road 65 and field road; approximately 30 meters south of PS-12; 5 feet higher in elevation than PS-9; 2 feet lower in elevation than PS-12

Depth cm(ft)	Horizon or Zone	Description
0-23 (0-.8)	CA	black to very dark brown (10YR2/1-2/2) silt loam; no structure to weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary; possible overwash.
23-80 (.8-2.6)	2A	black (N2/0) silt loam; moderate, fine, subangular blocky; friable; noneffervescent; gradual lower boundary.
80-122 (2.6-4.0)	2C1	very dark grayish brown to very dark brown (10YR3/2-2/2) silty clay loam to silt loam; massive; friable; noneffervescent; unknown lower boundary (end of tubes).
122-127 (4.0-4.2)		no recovery.
127-245 (4.2-8.0)	2C2	as 2C1 above, except common, medium, yellowish brown (10YR5/6) mottles.
245-260 (8.0-8.5)		no recovery.
260-286 (8.5-9.4)	2C2	as above, except weathered carbonate stone line at lower boundary; abrupt lower boundary.
286-322 (9.4-10.6)	3C3	light olive brown (2.5Y5/6) clay diamicton; mottles are common, medium, dark gray to gray (2.5Y4/0-5/0); massive; very firm; strongly effervescent; clear lower boundary.
322-401 (10.6-13.2)	4C4	light olive brown (2.5Y5/6) fine sandy loam; mottles are common, medium, dark gray to gray (2.5Y4/0-5/0); single grain; friable; strongly to violently effervescent.
401-477 (13.2-15.7)		no recovery of sands and gravels.
Auger Sample:		
527-662 (17.3-21.7)		light olive brown (2.5Y5/6) sandy clay loam; mottles are common, dark gray (2.5Y4/0); massive; firm; slightly effervescent.
732-867 (24.0-28.4)		light olive brown (2.5Y5/4) clay loam diamicton; mottles are common, fine, reddish yellow (7.5YR6/8); massive; very firm; strongly effervescent; common, weathered carbonate pebbles, probably weathered till.

Core/Profile: RK-1

Location: Boeve - in meander scar

Legal description: NW ¼ SE ¼ Section 25 T101N R45W

County: Rock

Parent material:

Vegetation: Hay

Slope:

Elevation: 1371 feet

Topo. Map: Ash Creek

Remarks: Boeve property; Rock River; taken in "old" meander scar; approximately 50 meters west of oxbow; 21 meters south of RK-2; no notes on elevation

Depth cm(ft)	Horizon or Zone	Description
0-25 (0-.8)	Ap	black (10YR2/1) loam; weak, very fine, subangular blocky, parts to moderate, fine, subangular blocky; coatings are faint, black (10YR2/1), thin, discontinuous, cutans; firm; noneffervescent; clear lower boundary; old plow zone in finer grained overwash.
25-42 (.8-1.4)	AC	black (10YR2/1) loam to sandy loam; massive to weak, fine, subangular blocky; coatings as above in root voids; friable; noneffervescent; abrupt lower boundary.
42-49 (1.4-1.6)	2C	dark yellowish brown (10YR4/4) loamy sand; single grain; loose; noneffervescent; abrupt lower boundary; sand parting.
49-152 (1.6-5.0)	3CA1	very dark gray to very dark grayish brown (2.5Y3/0-3/2) coarse silt loam to very fine sandy loam; mottles are few, medium, faint, dark brown (7.5YR3/4); weak, fine, subangular blocky, changing downward to massive; friable; noneffervescent; gradual lower boundary; thin beds of alternating pale brown (10YR6/3) fine sand and very dark gray (2.5Y3/0) silts; approximately 42 cm squeezed out and not recovered.
152-193 (5.0-6.3)	3CA2	black (2.5Y3/0) to (10YR2/1) silt loam to very fine sandy loam; massive; friable; slightly effervescent; gradual lower boundary; few modern roots; few snail and clam shells, 19 cm squeezed out and not recovered.
193-224 (6.3-7.4)	4C	black (10YR2/1) loam diamicton; firm; slightly effervescent; unknown lower boundary (end of tubes); core rejected on coarse pebbles and cobbles.

Core/Profile: RK-2

Location: Boeve - on inside of meander scar

Legal description: NW ¼ SE ¼ Section 25 T101N R45W

County: Rock

Parent material:

Vegetation: Hay

Slope:

Elevation: 1372 feet

Topo. Map: Ash Creek

Remarks: Boeve property; Rock River; core taken on inside of old meander; approximately 21 meters north of RK-1

Depth cm(ft)	Horizon or Zone	Description
0-22 (0-.7)	Ap	black (10YR2/1) loam to sandy loam; weak, fine subangular blocky; friable; noneffervescent; clear lower boundary; old plow zone.
22-127 (.7-4.2)	C1	black to brown (10YR2/1-5/3) sandy loam; massive to single grain; very friable; noneffervescent; clear lower boundary; sandier lenses have higher values and chromas; thin bedding; exotic pebbles common.
127-220 (4.2-7.2)	C2	very dark grayish brown (10YR3/2) fine sandy loam; massive; very friable; slightly effervescent; gradual lower boundary; common fine sand lenses, brown (10YR5/3), less than 4 cm thick near top; few mollusk shell fragments near top; compressed approximately 40 cm.
220-254 (7.2-8.3)	C3	very dark grayish brown (10YR3/2) coarse silt loam; massive; friable; slightly effervescent; clear lower boundary; few sand partings; few, fine rootlets and roots; fine bedding.
254-269 (8.3-8.8)	2C4	dark brown (10YR3/3) sandy loam; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); lost 5 cm back down hole; many exotic pebbles; core/auger refused on cobbles.

Core/Profile: RK-3
 Location: Boeve
 Legal description: NW ¼ SE ¼ Section 25 T101N R45W
 County: Rock
 Parent material: Ash Creek
 Vegetation: Weeds
 Slope: 0-2%
 Elevation: 1376 feet
 Topo. Map: Ash Creek
 Remarks: Boeve property; Rock River; 585-590 meters west of County Road 9; 2 feet lower in elevation than RK-4

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	Ap	black (10YR2/1) loam; weak to moderate, medium, platy, parts to weak to moderate, medium, granular; very friable; noneffervescent; clear lower boundary.
10-22 (.3-.7)	AB	black (10YR2/1) loam; weak to moderate, medium, prismatic, parts to weak to moderate, medium, platy; very friable; noneffervescent; clear lower boundary.
22-40 (.7-1.3)	Bw	brown to dark brown to yellowish brown (10YR4/3-5/4) sandy clay loam; weak to moderate, medium, prismatic, parts to weak to moderate, medium, platy; firm; noneffervescent; gradual lower boundary; coarsening downward.
40-77 (1.3-2.5)	BC	yellowish brown (10YR5/4) sandy loam to loam; massive; friable; noneffervescent; clear lower boundary; coarsening downward.
77-94 (2.5-3.1)	2C	yellowish brown (10YR5/4) pebbly sand; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); pushed core to 112 cm but sands bridged in barrel; many exotic rounded pebbles.

Core/Profile: RK-4

Location: Boeve

Legal description: NE ¼ SE ¼ Section 25 T101N R45W

County: Rock

Parent material:

Vegetation: Corn

Slope: 0-2%

Elevation: 1378 feet

Topo. Map: Ash Creek

Remarks: Boeve property; Rock River; historic-aged farmstead roadbed; 497 meters west of County Road 9; 2-3 feet lower in elevation than RK-5

Depth cm(ft)	Horizon or Zone	Description
0-11 (0-.4)	Ap1	very dark grayish brown (10YR3/2) loamy sand; single grain to moderate, medium, granular; loose to very friable; slightly effervescent; abrupt lower boundary; road fill; different colored.
11-25 (.4-.8)	Ap2	very dark brown and dark yellowish brown (10YR2/2& 4/4) loam; weak, medium, prismatic, parts to weak to moderate, medium, platy; friable; noneffervescent; clear lower boundary; clods of different colored sediment mixed together; starting to develop peds.
25-48 (.8-1.6)	A	very dark brown (10YR2/2) loam; no structure to weak, medium, granular; friable; noneffervescent; clear lower boundary; worm burrows filled with medium to coarse sand grains.
48-105 (1.6-3.4)	AB	very dark brown (10YR2/2) loam; mottles are few, coarse, distinct, brown (7.5YR5/4); moderate, medium, columnar; thin, nearly continuous, black (10YR2/1) clay coats; friable; noneffervescent; gradual lower boundary; compacted 7 cm; remnants of thin bedding.
105-141 (3.4-4.6)	Bw	brown to dark brown to yellowish brown (10YR4/3-5/4) fine sandy loam; massive; friable; noneffervescent; clear lower boundary.
141-202 (4.6-6.6)	2C	yellowish brown (10YR5/4) pebbly loamy sand to gravel; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); lost some sand out barrel; coarsening downward; core refused.

Core/Profile: RK-5

Location: Boeve

Legal description: NE ¼ SE ¼ Section 25 T101N R45W

County: Rock

Parent material:

Vegetation: Corn

Slope: 0-2%

Elevation: 1381 feet

Topo. Map: Ash Creek

Remarks: Off the side of old farmstead road; 410 meters west of County Road 9; 2-3 feet higher in elevation than RK-4

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	Ap	black (10YR2/1) loam; massive to weak, medium, granular; friable; noneffervescent; clear lower boundary; plow zone.
12-60 (.4-2.0)	A	black to very dark brown (10YR2/1-2/2) loam; massive; friable; noneffervescent; clear lower boundary; faint remnants of thin bedding lower in horizon.
60-88 (2.0-2.9)	AB	very dark grayish brown to brown to dark brown (10YR3/2-4/3) loam to sandy loam; friable; noneffervescent; clear lower boundary.
88-154 (2.9-5.1)	2Btb	dark yellowish brown to yellowish brown (10YR4/4-5/6) silt loam; mottles are few, fine, prominent, yellowish red (5YR5/8); weak to moderate, medium, prismatic; common, thin, discontinuous cutans; friable; noneffervescent; clear lower boundary; compressed approximately 29 cm; possible loess(?).
154-187 (5.1-6.1)	3C	yellowish brown (10YR5/6) sandy gravel; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); exotic pebbles.

Core/Profile: RK-6

Location: Boeve - farthest from river

Legal description: NE ¼ SE ¼ Section 25 T101N R45W

County: Rock

Parent material: Colluvium/loess(?)/till

Vegetation:

Slope: 0-2%

Elevation: 1380 feet

Topo. Map: Ash Creek

Remarks: Boeve property; Rock River; apparently core taken in "old" high abandoned channel; wetland; mollisol; 115 meters west of County Road 9; approximately 1 foot lower in elevation than RK-5

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	Ap1	very dark brown (10YR2/2) loam; weak, medium, platy, possibly related to compaction; friable; noneffervescent; clear lower boundary; road ditch fill; coarse sand and Sioux quartzite cobble at lower boundary.
10-28 (.3-.9)	Ap2	black (10YR2/1) loam; no structure to weak, medium, granular; friable; noneffervescent; abrupt lower boundary; road ditch fill; pebbly coarse sand parting at lower boundary.
28-47 (.9-1.5)	Ap3	very dark grayish brown to very dark brown (10YR3/2-2/2) pebbly sandy loam; massive; very friable; noneffervescent; clear lower boundary; road ditch fill; stone line at lower boundary; faint thin bedding.
47-99 (1.5-3.3)	ABb	very dark brown (10YR2/2) silt loam; mottles are few, medium, distinct, yellowish red (5YR4/6); weak to moderate, fine, subangular blocky; friable; noneffervescent; clear lower boundary; mottles appear when dry; few very fine sand laminar beds; compressed about 15 cm.
99-166 (3.3-5.5)	2Ab	black (10YR2/1) silt loam; weak to moderate, medium, granular; friable; noneffervescent; gradual lower boundary; compressed during coring approximately 20 cm.
166-215 (5.5-7.1)	3Btb1	black (10YR2/1) silty clay loam diamicton; weak to moderate, medium, prismatic parts to moderate, fine to medium, angular blocky; common, thick, discontinuous, black cutans; firm; noneffervescent; clear lower boundary; common, exotic pebbles; reworked till(?).
215-232 (7.1-7.6)	3Btb2	very dark gray to dark brown (10YR3/1-3/3) silty clay loam diamicton; weak to strong, medium, angular; common, thick, discontinuous, black cutans; very firm; noneffervescent; unknown lower boundary (end of tubes); common exotic pebbles; soil developed in till(?); core refused on stiff clays.

Core/Profile: RK-7

Location: Kracht - near ditch

Legal description: NE ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1397 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; near ditch (former tributary to Rock); 98 meters north of driveway; 43 meters west of County Road 9; approximately 2.0 meters lower than RK-8

Depth cm(ft)	Horizon or Zone	Description
0-13 (0-.4)	Ap	black (10YR2/1) loam; moderate, fine, granular; very friable; noneffervescent; abrupt lower boundary.
13-75 (.4-2.5)	Bw	black (10YR2/1) loam to sandy loam at bottom; weak to moderate, medium, prismatic; very friable; noneffervescent; clear lower boundary; fining upward sequence.
75-212 (2.5-7.0)	2Bwb	Black to very dark gray (10YR2/1-3/1) silty clay loam; weak to moderate, fine to medium subangular blocky, and possible prisms; firm; noneffervescent; clear lower boundary; 43cm were compressed; core was disturbed during extraction.
212-252 (7.0-8.3)	3C	weak red to pale red (2.5Y5/2-6/2) sandy clay loam; massive; very firm; noneffervescent; unknown lower boundary (end of tubes); approximately 10 cm were not recovered; core refused on firm clays.

Core/Profile: RK-8

Location: Kracht

Legal description: NE ¼ SE ¼ T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1398 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; 43 meters west of County Road 9; along driveway; near eastern edge of transect; 3 feet higher in elevation than RK-9

Depth cm(ft)	Horizon or Zone	Description
0-11 (0-.4)	Ap	very dark brown (10YR2/2) silt loam; massive; friable; noneffervescent; clear lower boundary; plow zone.
11-24 (.4-.8)	A	black to very dark brown (10YR2/1-2/2) silt loam; no structure to weak, fine, subangular blocky; friable; noneffervescent; gradual lower boundary; possible plow zone.
24-73 (.8-2.4)	Bw1	very dark brown to very dark grayish brown (10YR2/2-3/2) silt loam down to loam; weak, medium, prismatic, parts to weak to moderate, medium, subangular blocky; friable; noneffervescent; diffuse lower boundary; fining up sequence.
73-145 (2.4-4.8)	Bw2	very dark grayish brown to dark brown (10YR3/2-3/3) loam to sandy loam; weak, medium, prismatic; very friable; slightly to strongly effervescent; gradual lower boundary; few pebbles (chert).
145-213 (4.8-7.0)	C	dark brown to brown to dark brown (10YR3/3-4/3) sandy loam to loamy sand; single grain; very friable to loose; strongly effervescent; unknown lower boundary (end of tubes); stopped by chert cobble, lost some.

Core/Profile: RK-9

Location:

Legal description: NE ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material: Loess/colluvium/alluvium

Vegetation:

Slope:

Elevation: 1395 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; RK-9 located in depression on "higher" terrace; 6 feet lower in elevation than RK-10

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	Ap	black (10YR2/1) silt loam; no structure to weak, fine, granular; friable; noneffervescent; clear lower boundary; plow zone.
12-33 (.4-1.1)	A	black (10YR2/1) silt loam; weak, fine subangular blocky; very friable; noneffervescent; gradual lower boundary.
33-70 (1.1-2.3)	Bw1	very dark brown (10YR2/2) silt loam; weak, medium, prismatic; friable; noneffervescent; clear lower boundary; compressed 9 cm.
70-110 (2.3-3.6)	Bw2	very dark grayish brown (10YR3/2) loam; massive to weak, fine, subangular blocky; friable; noneffervescent; gradual lower boundary; few medium pebbles, possible recent sediment(?).
110-128 (3.6-4.2)	2Ab	very dark brown (10YR2/2) loam; mottles are few, medium, distinct, yellowish brown (10YR5/6); no structure to weak, medium, granular; friable; noneffervescent; gradual lower boundary; faint remnants of paleosol.
128-140 (4.2-4.6)	2Bwb	very dark brown (10YR2/2) sandy clay loam; weak to medium, fine, subangular blocky; firm; noneffervescent; clear lower boundary.
140-186 (4.6-6.1)	2C1	dark grayish brown (10YR4/2) sandy clay loam to sandy loam; massive; friable; noneffervescent; clear lower boundary; alluvium.
186-318 (6.1-10.4)	3C2	brown to dark brown (10YR4/3) sand and gravel; single grain; very friable; noneffervescent; unknown lower boundary (end of tubes); well rounded exotic pebbles; deformed during extraction; core refused on cobbles.

Core/Profile: RK-10

Location: Kracht - high terrace

Legal description: NE ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material: Alluvium (some loess?)

Vegetation:

Slope:

Elevation: 1401 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; on high ridge/terrace; near eastern edge of transect; 6 feet higher in elevation than RK-9

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	Ap1	very dark brown (10YR2/2) loam; moderate, medium, granular; friable; noneffervescent; abrupt lower boundary; plow zone.
12-20 (.4-.7)	Ap2	very dark brown to very dark grayish brown (10YR2/2-3/2) loam; no structure to weak, fine subangular blocky; friable; noneffervescent; clear lower boundary; plow or chisel zone.
20-65 (.7-2.1)	Bw1	yellowish brown (10YR5/4) loam; many, fine, distinct, very dark brown (10YR2/2) mottles of sediment from above near top; weak, medium, prismatic; friable; noneffervescent; gradual lower boundary; cutans are very faint.
65-115 (2.1-3.8)	Bw2	yellowish brown (10YR5/6) fine sandy loam; single grain; very friable to loose; noneffervescent; clear lower boundary.
115-202 (3.8-6.6)	C	yellowish brown (10YR5/4) fine sandy loam to loamy sand; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); some CaCO ₃ cemented sub-horizons; core rejected on sands and gravel.

Core/Profile: RK-11

Location: Kracht

Legal description: NE ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1397 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; near slight dip in landscape; on transect between County Road 9 and Rock River; 4 feet lower in elevation than RK-10

Depth cm(ft)	Horizon or Zone	Description
0-11 (0-.4)	Ap	very dark brown (10YR2/2) silt loam; massive; friable; noneffervescent; abrupt lower boundary; plow zone.
11-23 (.4-.8)	A	black (10YR2/1) silt loam; no structure to weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
23-81 (.8-2.7)	Bw	black to very dark brown (10YR2/1-2/2) silt loam; weak, medium, prismatic; friable; noneffervescent; clear lower boundary.
81-136 (2.7-4.5)	C1	yellowish brown (10YR5/4) silt loam; mottles are few, fine, distinct, reddish yellow (7.5YR6/8) and gray (2.5Y5/1); massive; firm; noneffervescent; clear lower boundary; mottles appear at approximately 90 cm depth; compressed 23 cm.
136-148 (4.5-4.9)	2C2	yellowish brown (10YR5/4) sandy loam to loamy sand; mottles are few, fine, distinct, reddish yellow (7.5YR6/8) and gray (2.5Y5/1); single grain; very friable; slightly effervescent; unknown lower boundary (end of tubes); core barrel refused on sands.

Core/Profile: RK-12

Location: Kracht

Legal description: NE ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1397 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; in middle of transect from County Road 9 to Rock River; near slight dip in landscape; same elevation as RK-11

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	Ap1	black (10YR2/1) loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; few exotic pebbles, crop residue at bottom boundary.
12-23 (.4-.8)	Ap2	black (10YR2/1) loam; massive; friable; noneffervescent; abrupt lower boundary; few exotic pebbles.
23-48 (.8-1.6)	A	black to very dark brown (10YR2/1-2/2) loam; massive; friable; noneffervescent; clear lower boundary.
48-74 (1.6-2.4)	C1	yellowish brown (10YR5/4) fine loamy sand; single grain; loose; noneffervescent; clear lower boundary; stone line at upper boundary, pebbles include well-rounded exotics.
74-77 (2.4-2.5)	2C2	yellowish brown (10YR5/4) gravel; single grain; loose; slightly to strongly effervescent; unknown lower boundary (end of tubes); carbonate and other exotic pebbles; core refused on gravel.

Core/Profile: RK-13
 Location: Kracht - meander scar
 Legal description: NE ¼ SE ¼ T101N R45W
 County: Rock
 Parent material:
 Vegetation:
 Slope:
 Elevation: 1395 feet
 Topo. Map: Ash Creek
 Remarks: Kracht property; Rock River; core taken in meander scar of Rock River; approximately 7 feet lower in elevation than RK-12

Depth cm(ft)	Horizon or Zone	Description
0-11 (0-.4)	Ap1	dark yellowish brown (10YR4/6) loam; mottles are many, coarse, prominent, black (10YR2/1); massive; friable; noneffervescent; abrupt lower boundary; mixed up clods of different colored sediment.
11-24 (.4-.8)	Ap2	black (10YR2/1) loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; chisel zone.
24-68 (.8-2.2)	A	black (10YR2/1) silty clay loam; no structure to weak, very fine, subangular blocky; firm; noneffervescent; unknown lower boundary (end of tube); samples taken out in pieces from core barrel.
68-127 (2.2-4.2)		not recovered.
127-192 (4.2-6.3)	Bt	black to very dark grayish brown (10YR2/4 3/2) clay loam; mottles are few, fine, distinct, yellowish red (5YR4/6); weak to moderate, fine, angular blocky parts to weak to moderate, medium, prismatic; shiny clay coats on peds; very firm; noneffervescent; abrupt lower boundary; gradually changing from dark at top to higher value and chroma near bottom; common fine pebbles; pebble and sand content increase downward.
192-340 (6.3-11.2)	2C1	brown to yellowish brown (10YR5/3-5/4) fine to medium loamy sand; single grain; loose; noneffervescent; clear lower boundary; some gleyed laminar beds of clay; upper boundary is a coarse gravel stone line of rounded quartzite, granite, and chert.
340-342 (11.2-11.2)	3C2	yellowish brown (10YR5/4) sandy gravel; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); core refused on coarse gravel.

Core/Profile: RK- 14

Location: Kracht - low terrace

Legal description: NE ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1397 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; located in low terrace near Rock River between meander scars; 2 feet higher in elevation than RK-13 and RK-15 (in meander scars)

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	Ap1	black (10YR2/1) loam; weak to moderate, fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; common, coarse sand and small pebbles; plow zone.
12-25 (.4-.8)	Ap2	black (10YR2/1) loam; weak to moderate, fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; common, coarse sand and small pebbles; plow zone.
25-72 (.8-2.4)	BA	black (10YR2/1) loam; weak, medium, subangular blocky; friable; noneffervescent; gradual lower boundary; few pebbles.
72-105 (2.4-3.4)	Bt	black to very dark brown (10YR2/1-2/2) silty clay loam; weak to moderate, medium, prismatic; few, thin, discontinuous cutans; friable to firm; noneffervescent; gradual lower boundary; few medium pebbles; no obvious bedding, but still must be alluvium.
105-125 (3.4-4.1)	C1	dark brown (10YR3/3) silt loam; massive; friable; strongly effervescent; gradual lower boundary; whitish carbonate precipitates.
125-254 (4.1-8.3)	C2	dark brown (10YR3/3) sandy loam to loamy sand; mottles are few, coarse, yellowish brown (10YR5/6); single grain; loose; slightly effervescent; unknown lower boundary (end of tube); coarser sand interspersed; coarsening downward; last 74 cm not recovered.
254-284 (8.3-9.3)	2C3	dark brown to brown to dark brown (10YR3/3-4/3) coarse sand and gravel to loamy sand; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); well-rounded exotic pebbles; core refused on gravel.

Core/Profile: RK-15

Location: Kracht - meander scar

Legal description: NW ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1395 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; core taken in old meander scar; 2 feet lower in elevation than RK-14

Depth cm(ft)	Horizon or Zone	Description
0-20 (0-.7)	Ap	black to very dark brown (10YR2/1-2/2) silt loam; no structure to weak, medium, subangular blocky; friable; noneffervescent; clear lower boundary; plow zone.
20-64 (.7-2.1)	C1	dark brown to brown to dark brown (10YR3/3-4/3) sandy clay loam; massive; firm; slightly to strongly effervescent; unknown lower boundary (end of tubes; common to many small pebbles; very faint remnants of bedding; value increase downward.
64-127 (2.1-4.2)		no recovery.
127-200 (4.2-6.6)	C2	dark grayish brown to grayish brown (10YR4/2-5/2) to (2.5Y4/2-5/2) silt loam; mottles are common, fine, distinct, strong brown (7.5YR5/8); massive; friable; strongly effervescent; clear lower boundary; MnOx concretions near lower boundary, mottles increase size toward bottom.
200-229 (6.6-7.5)	2C3	dark grayish brown (2.5Y4/2) sandy loam to loamy sand; mottles are many, coarse, distinct, strong brown (7.5YR4/6-5/6); single grain; loose; slightly effervescent; unknown lower boundary (end of tube); sands bridged in core barrel.
229-254 (7.5-8.3)		no recovery.
254-264 (8.3-8.8)	2C3	continued.
269-283 (8.8-9.3)	2C4	strong brown (7.5YR5/8) medium sand; single grain; loose; slightly effervescent; abrupt lower boundary; appears to include subrounded clods of black (10YR2/1) organic sediment, which have gleyed, dark greenish gray to greenish gray (5G4/1-5/1), rinds around them; the rinds indicate the clods are not slump in core barrel; the clods are not effervescent.
283-297 (9.3-9.7)	2C5	gray (10YR5/1) loamy sand; single grain; loose; slightly effervescent; clear lower boundary.
297-312 (9.7-10.2)	2C6	strong brown (7.5YR5/8) medium to coarse sand and gravel; single grain; loose; slightly effervescent; abrupt lower boundary; fining up from gravel.
312-329 (10.2-10.8)	3C7(?)	black (N/0) silty clay; massive; firm; noneffervescent; abrupt lower boundary; probable clods of organic sediment that has fallen into channel bed; appears possible macrofossils occur; seeds of <i>Chenopodium sp.</i> , <i>Cyperaceae (Scirpus sp.)</i> , <i>Myriophyllum sp.</i> from 312-320 cm C-14 dated at 7,940±100 BP.
329-351 (10.8-11.5)	4C8	dark yellowish brown (10YR4/4) coarse gravel and sand; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); carbonate precipitates coat clasts; core refused on rounded gravel.

Core/Profile: RK-16

Location: Kracht - meander scar

Legal description: NW ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1396 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; core taken in old meander scar; 1 foot higher in elevation than RK-15

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	Ap	black (10YR2/1) silt loam; no structure to weak, fine, granular; friable; noneffervescent; abrupt lower boundary; plow zone.
10-23 (.3-.8)	A	black (10YR2/1) silt loam; weak to moderate, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
23-60 (.8-2.0)	Acum	black (10YR2/1) silt loam to loam; weak to moderate, fine, subangular blocky; friable; noneffervescent; gradual lower boundary.
60-75 (2.0-2.5)	AC	black to very dark grayish brown (10YR2/4 3/2) loam; massive; friable; noneffervescent; clear lower boundary.
75-130 (2.5-4.3)	C1	black to very dark grayish brown (10YR2/4 3/2) silty clay loam; massive; firm; strongly effervescent; gradual lower boundary; compressed 10cm; looks similar to "clods" found at bottom of RK-15.
130-200 (4.3-6.6)	C2	as above except dark gray to dark grayish brown (10YR4/1-4/2) and some sandier lenses; gradual lower boundary.
200-234 (6.6-7.7)	C3	as above except very fine sand laminae, pale brown to very pale brown (10YR6/3-7/3); clear lower boundary; core compressed 20 cm.
234-251 (7.7-8.2)	2C4	grayish brown (10YR-2.5Y5/2) and black (10YR2/1) pebbly sandy clay loam; mottles are many, common; massive; very firm; slightly effervescent; unknown lower boundary (end of tubes); core sample mangled during extraction; core refused on gravels.

Core/Profile: RK-17
 Location: Kracht - low terrace
 Legal description: NW ¼ SE ¼ T101N R45W
 County: Rock
 Parent material:
 Vegetation:
 Slope:
 Elevation: 1397 feet
 Topo. Map: Ash Creek
 Remarks: Kracht property; Rock River; core taken on low terrace; 1 foot higher in elevation than RK-16

Depth cm(ft)	Horizon or Zone	Description
0-19 (0-.6)	Ap	black (10YR2/1) silty clay loam; no structure to weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary; plow zone.
19-60 (.6-2.0)	AC	black (10YR2/1) silty clay loam to loam; massive; friable; slightly effervescent; gradual lower boundary.
60-93 (2.0-3.1)	CA	very dark brown (10YR2/2) sandy loam; massive; very friable; core compressed approximately 20 cm; few, fine sand laminae.
93-173 (3.1-5.7)	C	very dark grayish brown (10YR3/2) sandy clay loam; mottles are few, coarse, prominent, dark red to red (2.5YR3/6-4/8); massive; core bridged for remaining depth; mottles are along boundaries of very fine sand laminae light gray to light brownish gray (10YR7/1-2.5Y6/2), which increase downward.
173-254 (5.7-8.3)		borehole collapsed; no recovery.

Core/Profile: RK-18

Location: Kracht - meander scar

Legal description:

County: Rock

Parent material: Alluvium

Vegetation:

Slope:

Elevation: 1395 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; core collected in meander scar; 2 feet lower in elevation than RK-17

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	Ap1	black (10YR2/1) silty clay loam; massive; firm; noneffervescent; abrupt lower boundary; plow zone.
10-22 (.3-.7)	Ap2	black (10YR2/1) silty clay loam; no structure to weak, fine, subangular blocky; firm; noneffervescent; clear lower boundary; chisel zone.
22-39 (.7-1.3)	A	black (10YR2/1) silty clay loam; weak to moderate, fine, subangular blocky; firm; noneffervescent; clear lower boundary.
39-91 (1.3-3.0)	C1	very dark brown (10YR2/2) fine sandy loam; massive; very friable; noneffervescent; gradual lower boundary.
91-190 (3.0-6.2)	C2	dark brown (10YR3/3) loam; massive; friable; slightly effervescent; unknown lower boundary (end of tubes); organic mats at 170-190 cm; wood and sediment sample collected for plant identification at 172-178 cm - wood and seeds C-14 dated at 320±70 BP; sandy parting at 135-139 cm; organic-rich areas are noneffervescent.
190-254 (6.2-8.3)		no recovery, rejected on coarse sand and gravels.

Core/Profile: RK-19

Location: Kracht - low terrace

Legal description: NW ¼ SE ¼ Section 13 T101N R45W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1398 feet

Topo. Map: Ash Creek

Remarks: Kracht property; Rock River; low terrace adjacent to Rock River channel; 3 feet higher in elevation than RK-18

Depth cm(ft)	Horizon or Zone	Description
0-7 (0-.2)	Ap	black (10YR2/1) silty clay loam; massive; firm; noneffervescent; clear lower boundary; plow zone or recent flood deposit.
7-23 (2-.8)	A	black (10YR2/1) silty clay loam; weak, fine, subangular blocky; firm; noneffervescent; clear lower boundary.
23-43 (.8-1.4)	C1	black (10YR2/1) silty clay loam; massive; firm; noneffervescent; clear lower boundary; top of fining upward sequence.
43-60 (1.4-2.0)	C2	as above except slight effervescence; part of fining upward sequence.
60-84 (2.0-2.8)	C3	black to very dark brown (10YR2/1-2/2) fine sandy loam; massive; friable; slightly effervescent; part of fining upward sequence.
84-109 (2.8-3.6)	2C4	very dark brown (10YR2/2) loam; massive; friable; slightly effervescent.
109-120 (3.6-3.9)	2C5	very dark brown (10YR2/2) medium sandy loam; massive; friable to very friable; slightly effervescent; some sand laminae are white (10YR8/2).
120-165 (3.9-5.4)	3C6	very dark grayish brown to very dark gray (10YR3/2-3/1) loam to silt loam; massive; friable; strongly effervescent; very fine sand laminae, white (10YR8/2); compressed approximately 10 cm; fining up sequence.
165-180 (5.4-5.9)	4C7	very dark grayish brown to very dark gray (10YR3/2-3/1) silty clay loam; massive; firm; slightly to strongly effervescent; part of fining upward sequence.
180-190 (5.9-6.2)	4C8	very dark grayish brown to very dark gray (10YR3/2-3/1) sandy loam; mottles are few, fine, distinct, strong brown (7.5YR4/6); massive; friable; slightly effervescent; very fine sand laminae, white (10YR8/2); part of fining upward sequence; core rejected on coarse sands and gravel.

Core/Profile: RK-20

Location: Vienna Township Road

Legal description: NW ¼ SE ¼ Section 30 T103N R44W

County: Rock

Parent material:

Vegetation: Grasses

Slope:

Elevation: 1461 feet

Topo. Map: Luverne

Remarks: Rock River tributary; sampled in road right-of-way; on west side of tributary; south side of road; 4.5 feet higher in elevation than RK-24

Depth cm(ft)	Horizon or Zone	Description
0-16 (0-.5)	Ap	very dark brown (10YR2/2) silt loam; mottles are few, medium, distinct, (10YR3/3); weak to moderate, fine subangular blocky; friable; noneffervescent; clear lower boundary; mottles are sediment worked up from below.
16-49 (.5-1.6)	Bw	dark brown to dark yellowish brown (10YR3/3-3/4), (yellowish brown [10YR5/4] dry), silt loam; no structure to weak, medium, prismatic; friable; noneffervescent; clear lower boundary; higher concentration of very fine sand grains than horizon above (almost loam).
49-56 (1.6-1.8)	2C	dark brown to dark yellowish brown (10YR3/3-3/4), (yellowish brown [10YR5/4] dry), coarse sand and gravel; single grain; very friable; strongly effervescent; unknown lower boundary (end of tubes); many well-rounded pebbles of exotic origins; core rejected on gravel.

Core/Profile: RK-21

Location: Vienna Township Road

Legal description: SE ¼ NE ¼ Section 30 T103N R44W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1462 feet

Topo. Map: Luverne

Remarks: Rock River tributary; Vienna Township Road right-of-way; just to the east of slough; 2 feet higher in elevation than RK-22

Depth cm(ft)	Horizon or Zone	Description
0-21 (0-.7)	A	very dark brown (10YR2/2) silt loam; weak, fine, subangular blocky; friable; noneffervescent; gradual lower boundary.
21-50 (.7-1.6)	BA	very dark brown (10YR2/2) loam; weak, medium, prismatic; friable; slightly to strongly effervescent; clear lower boundary; common, coarse, rounded pebbles increasing numbers downward.
50-92 (1.6-3.0)	2C	yellowish brown (10YR5/4) gravely medium sand; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); many, well-rounded exotic pebbles up to 5-6 cm diameter.
92-127 (3.0-4.2)		no recovery (sandy gravel).
127-159 (4.2-5.2)		same as 2C above; "outwash."
159-162 (5.2-5.3)		no recovery (gravely sand); core refused.

Core/Profile: RK-22

Location: Vienna Township Road

Legal description: NE ¼ SE ¼ Section 30 T103N R44W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1458 feet

Topo. Map: Luverne

Remarks: Core taken along Vienna Township Road right-of-way; eastern side of slough on south side of road; 1 foot lower in elevation than RK-23

Depth cm(ft)	Horizon or Zone	Description
0-13 (0-.4)	A	very dark brown (10YR2/2) silt loam; no structure to weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary.
13-40 (.4-1.3)	AB	very dark brown (10YR2/2) silt loam; weak to moderate, fine, subangular blocky; clay coats in old root voids; friable; noneffervescent; gradual lower boundary.
40-70 (1.3-2.3)	C1	black to very dark gray (10YR2/4 3/1) silt loam; massive; friable; noneffervescent; unknown lower boundary (end of tubes).
70-127 (2.3-4.2)		no recovery.
127-195 (4.2-6.4)	2C2	brown to dark brown (10YR4/3) sandy loam interbedded with very dark grayish brown (10YR3/2) silt loam; single grain and massive; friable; noneffervescent.
195-248 (6.4-8.1)		no recovery (sandy gravel).
248-312 (8.1-10.2)	2C2 (cont.)	as above except coarsening pebbles downward; abrupt lower boundary.
312-315 (10.2-10.3)	2C3	dark brown (7.5YR3/2) pebbly sandy clay loam; single grain; very friable; slightly effervescent; unknown lower boundary (end of tubes); MnOx stained and lightly cemented; thin FeOx stain at bottom on white (10YR8/2) coarse sandy clay loam.
315-363 (10.3-11.9)		no recovery; coarse sand and gravel; core rejected on gravel.

Core/Profile: RK-23

Location: Vienna Township Road

Legal description: NE ¼ SE ¼ Section 30 T103N R44W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1459 feet

Topo. Map: Luverne

Remarks: Rock River tributary; Vienna Township Road right-of-way; on eastern side of slough; same elevation as RK-20

Depth cm(ft)	Horizon or Zone	Description
0-7 (0-.2)	A	very dark brown (10YR2/2) silt loam; weak, very fine, subangular blocky; friable; noneffervescent; clear lower boundary.
7-47 (2-1.5)	BA	very dark brown (10YR2/2) silt loam; moderate, fine, subangular blocky; friable; noneffervescent; gradual lower boundary.
47-106 (1.5-3.5)	C1	very dark grayish brown (10YR3/2) silt loam; massive; friable; unknown lower boundary (end of tube); few small carbonate pebbles.
106-127 (3.5-4.2)		no recovery.
127-230 (4.2-7.6)	C2	same as C-horizon above except some sandier lenses.
230-252 (7.6-8.3)		no recovery.
252-351 (8.3-11.5)	2C3	brown to dark brown (10YR4/3) pebbly sandy loam interbedded with very dark grayish brown to dark gray (10YR3/2-2.5Y4/0) silt loam; single grain; loose; noneffervescent; unknown lower boundary (end of tubes); silt loam and loamy beds are thin and may be slightly effervescent at 331-351 cm interval.
351-356 (11.5-11.7)		no recovery.

Core/Profile: RK-24

Location: Vienna Township Road

Legal description: SW ¼ NE ¼ Section 30 T103N R44W

County: Rock

Parent material:

Vegetation:

Slope:

Elevation: 1457 feet

Topo. Map: Luverne

Remarks: Rock River tributary; Vienna Township Road right-of-way; just to west of slough on north side of road; 5.5 feet lower in elevation than RK-21

Depth cm(ft)	Horizon or Zone	Description
0-17 (0-.6)	A	very dark brown (10YR2/2) silt loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; clear lower boundary.
17-33 (.6-1.1)	AB	very dark brown (10YR2/2) silt loam; weak to moderate, very fine, subangular blocky; friable; noneffervescent; clear lower boundary.
33-95 (1.1-3.1)	Cg1	very dark grayish brown (10YR3/2-2.5Y3/2) silt loam to loam; mottles are few, medium, distinct, strong brown (7.5YR4/6); massive; friable; noneffervescent; gradual lower boundary.
95-101 (3.1-3.3)	Cg2	very dark gray to dark gray (2.5Y3/1-4/0) loam; mottles are few, fine, distinct, strong brown to reddish yellow (7.5YR5/6-6/8); massive; friable; noneffervescent; unknown lower boundary (end of tube).
101-127 (3.3-4.2)		no recovery.
127-172 (4.2-5.6)	2Cg3	very dark grayish brown (10YR3/2) sandy loam; mottles are few, coarse, distinct, strong brown (7.5YR5/6); single grain; loose; noneffervescent; unknown lower boundary (end of tubes); core refused on sand and gravel.

Core/Profile: RK-25

Location: County Road 21 right-of-way

Legal description: SE ¼ SE ¼ Section 18 T104N R44W

County: Rock

Parent material:

Vegetation:

Slope: 0-2%

Elevation: 1552 feet

Topo. Map: Edgerton South

Remarks: Rock River tributary; County Road 21/Battleplain Township Road right-of-way; eastern edge of transect; 56.5 meters west of Rock County Road 2; 1 foot higher in elevation than RK-26

Depth cm(ft)	Horizon or Zone	Description
0-18 (0-.6)	A	very dark brown (10YR2/2) silt loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; gradual lower boundary.
18-60 (.6-2.0)	Bw	dark yellowish brown to brown to dark brown (10YR4/4-4/3) silt loam; weak, medium, prismatic; friable; noneffervescent; gradual lower boundary; faint remnants of laminar bedding; possibly reworked loess.
60-108 (2.0-3.5)	2C	dark yellowish brown (10YR4/4) fine to medium sand; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); coarser sand grains are well rounded and exotic; core refused on sand.
108-121 (3.5-4.0)		no recovery (sand).

Core/Profile: RK-26

Location: County Road 21 right-of-way

Legal description: SE ¼ SE ¼ Section 18 T104N R44W

County: Rock

Parent material:

Vegetation: Grasses

Slope: 0-2%

Elevation: 1551 feet

Topo. Map: Edgerton South

Remarks: Rock River tributary; County Road 21/Battle Plain Township Road right-of-way; 1.5 feet higher in elevation than RK-27

Depth cm(ft)	Horizon or Zone	Description
0-39 (0-1.3)	A	very dark brown (10YR2/2) silt loam; many, fine, distinct, reddish yellow (7.5YR6/8) mottles along root voids; no structure to weak, fine, subangular blocky; friable; noneffervescent; clear lower boundary; few rounded pebbles.
39-56 (1.3-1.8)	C	brown to dark brown to yellowish brown (10YR4/3-5/4) pebbly sandy clay loam; mottles are common, coarse, strong brown (7.5YR5/6); massive; firm; noneffervescent; many coarse, exotic rounded pebbles; core refused on gravel.
56-88 (1.8-2.9)		no recovery.

Core/Profile: RK-27

Location: County Road 21 right-of-way

Legal description: SE ¼ SE ¼ Section 18 T104N R44W

County: Rock

Parent material:

Vegetation: Grasses

Slope: 0-5%

Elevation: 1549 feet

Topo. Map: Edgerton South

Remarks: Rock River tributary; County Road 21/Battle Plain Township Road right-of-way; 6.5 feet higher in elevation than RK-28

Depth cm(ft)	Horizon or Zone	Description
0-18 (0-.6)	A	very dark brown (10YR2/2) pebbly silt loam; mottles are common, coarse, distinct, dark reddish brown (5YR3/4); no structure to weak, very fine, subangular blocky; friable; noneffervescent; clear lower boundary.
18-26 (.6-.9)	2C	dark reddish brown (5YR3/4) coarse gravel; single grain; loose; noneffervescent; unknown lower boundary (end of tubes); core refused on gravel.
26-30 (.9-1.0)		no recovery (gravel).

Core/Profile: RK-28

Location: County Road 21 right-of-way

Legal description: SE ¼ Section 18 T104N R44W

County: Rock

Parent material:

Vegetation: Grasses

Slope: 0-5%

Elevation: 1543 feet

Topo. Map: Edgerton South

Remarks: Rock River tributary; County Road 21; Battle Plain Township Road right-of-way; to west of river; 1.5 feet lower in elevation than RK-29

Depth cm(ft)	Horizon or Zone	Description
0-19 (0-.6)	A	very dark brown (10YR2/2) loam; weak, fine, subangular blocky; friable; slightly effervescent; clear lower boundary.
19-60 (.6-2.0)	Bw	very dark grayish brown to very dark brown (10YR3/2-2/2) loam; weak, medium, prismatic; friable; slightly effervescent; gradual lower boundary.
60-84 (2.0-2.8)	C1	very dark grayish brown to very dark brown (10YR3/2-2/2) loam; massive; friable; slightly effervescent; abrupt lower boundary; part of fining up sequence.
84-102 (2.8-3.4)	C2	very dark grayish brown to dark brown (10YR3/2-3/3) sandy loam; massive; very friable; slightly effervescent; clear lower boundary; part of fining-up sequence.
102-116 (3.4-3.8)	2C3	very dark grayish brown (10YR3/2) loam.
116-127 (3.8-4.2)		no recovery.
127-150 (4.2-4.9)	3C4	very dark grayish brown to dark brown (10YR3/2-3/3) loam to loamy sand; massive to single grain; friable; strongly effervescent; fining-up sequence.
150-181 (4.9-5.9)	4C5	very dark brown to dark brown (10YR2/2-3/3) loam to pebbly loamy sand; massive to single grain; friable; strongly effervescent; few snail shell fragments; fining-up sequence; core refused on gravel.
181-225 (5.9-7.4)		no recovery.

Core/Profile: RK-29

Location: County Road 21 right-of-way

Legal description: SW ¼ SE ¼ Section 18 T104N R44W

County: Rock

Parent material:

Vegetation: Grasses

Slope: 0-2%

Elevation: 1544 feet

Topo. Map: Edgerton South

Remarks: Rock River tributary; County Road 21/Battle Plain Township Road right-of-way; on west side of river; 0.5 foot lower in elevation than RK-30

Depth cm(ft)	Horizon or Zone	Description
0-14 (0-.5)	A	very dark brown (10YR2/2) silt loam; weak to moderate, very fine, subangular blocky; friable; slightly effervescent; clear lower boundary.
14-64 (.5-2.1)	Bw	very dark brown (10YR2/2) silt loam; weak to moderate, medium, prismatic, parts to weak, fine, subangular blocky; friable; slightly to strongly effervescent; diffuse lower boundary; few pebbles.
64-121 (2.1-4.0)	C1	dark brown (10YR3/3) loam; common, fine, white (10YR8/2) mottles that are carbonate precipitates; massive; friable; violently effervescent; unknown lower boundary (end of tube).
121-127 (4.0-4.2)		no recovery.
127-194 (4.2-6.4)	C2	very dark grayish brown (10YR3/2) silty clay loam; common, fine, white (10YR8/2) mottles that are carbonate precipitates; massive; firm; strongly effervescent; gradual lower boundary; wood from 169-172 cm C-14 dated at 5,430±60 BP.
194-254 (6.4-8.3)	C3	dark grayish brown (10YR4/2) silty clay loam; mottles are many, medium, olive brown (2.5Y4/4) and few, coarse, yellowish brown (10YR5/6); massive; firm; strongly effervescent; unknown lower boundary (end of tube); many fine shell fragments; few medium sand partings; compressed 11 cm; coarse sand lens at bottom.
254-273 (8.3-9.0)	C4	very dark grayish brown (10YR3/2) silty clay loam; few, coarse, black (10YR2/1) mottles in beds; massive; firm; strongly effervescent; abrupt lower boundary; laminar bedding; collected 169-172 cm with charcoal; crushed shells.
273-307 (9.0-10.1)	2C5	strong brown (7.5YR4/6) coarse sand; single grain; loose; strongly effervescent; unknown lower boundary (end of tubes); few silty clay loam lenses.
307-331 (10.1-10.9)		no recovery (sand and gravel); core rejected on sand and gravel.

Core/Profile: RK-30
 Location: County Road 21 right-of-way
 Legal description: SW ¼ SE ¼ Section 18 T104N R44W
 County: Rock
 Parent material:
 Vegetation: Grasses
 Slope: 0-2%
 Elevation: 1545 feet
 Topo. Map: Edgerton South
 Remarks: Rock River tributary; County Road 21/Battle Plain Township Road right-of-way; west side of river; 2 feet lower than RK-31

Depth cm(ft)	Horizon or Zone	Description
0-9 (0-.3)	A	very dark brown (10YR2/2) silt loam; weak, very fine, subangular blocky; firm; noneffervescent; abrupt lower boundary; thin, very fine sand parting at lower boundary.
9-30 (.3-1.0)	Bw1	very dark brown (10YR2/2) silt loam; weak to moderate, fine to medium, subangular blocky; firm; noneffervescent; gradual lower boundary.
30-60 (1.0-2.0)	Bw2	very dark brown (10YR2/2) loam; weak, coarse, prismatic; friable; strongly effervescent; gradual lower boundary.
60-102 (2.0-3.4)	2C1	dark brown (10YR3/3) loamy sand; single grain; loose; strongly effervescent; shell fragments; well-rounded exotic pebbles, coarsening downward.
102-127 (3.4-4.2)		no recovery (sands).
127-152 (4.2-5.0)	2C2	as above except slight effervescence.
152-175 (5.0-5.7)	3C3	brown to dark brown (10YR4/3) loamy sand; single grain; loose; slightly effervescent; unknown lower boundary (end of tubes); weak remnants of stratification; fine shell fragments; fewer pebbles than unit above; core refused on coarse sand and gravel.
175-185 (5.7-6.1)		no recovery.

Core/Profile: RK-31
 Location: County Road 21 right-of-way
 Legal description: SW ¼ SE ¼ Section 18 T104N R44W
 County: Rock
 Parent material:
 Vegetation: Grasses
 Slope: 0-3%
 Elevation: 1547 feet
 Topo. Map: Edgerton South
 Remarks: Rock River tributary; County Road 21/Battle Plain Township Road right-of-way; 6 feet lower in elevation than RK-32

Depth cm(ft)	Horizon or Zone	Description
0-11 (0-.4)	A	very dark brown (10YR2/2) silt loam; weak to moderate, very fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; very fine sand/coarse silt laminar beds at bottom of horizon.
11-27 (.4-.9)	Bw1	very dark brown (10YR2/2) silt loam; weak to moderate, fine to medium, subangular blocky; friable; noneffervescent; abrupt lower boundary; stone line at lower boundary; possible historic fill.
27-46 (.9-1.5)	2Bw2	very dark brown (10YR2/2) loam with coarse gravel; no structure to weak, medium, subangular blocky; friable; slightly effervescent; abrupt lower boundary; thin unit within horizon that has very fine sand in laminar beds; laminar bedding is in rip-up clasts or this is an historic fill unit.
46-62 (1.5-2.0)	3C1	dark brown (10YR3/3) coarse loamy sand; single grain; loose; strongly effervescent; abrupt lower boundary; possible fill because of horizons above and below.
62-70 (2.0-2.3)	4C2	very dark brown (10YR2/2) silt loam; mottles are many, medium, distinct, yellowish brown (10YR5/6); massive; friable; noneffervescent; abrupt lower boundary, irregular; appears to be fill because mottles may be "old" clods reworked into matrix.
70-92 (2.3-3.0)	5Ab	black (10YR2/1) silt loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; clear lower boundary.
92-127 (3.0-4.2)		no recovery (possibly compressed).
127-145 (4.2-4.8)	5C1	very dark gray to very dark grayish brown (10YR3/1-3/2) silt loam; massive; friable; noneffervescent; clear lower boundary; increasing number of very fine sand laminar lenses with depth.
145-205 (4.8-6.7)	5C2	very dark grayish brown (10YR3/2) silt loam; massive; friable; slightly to strongly effervescent.
205-244 (6.7-8.0)		no recovery.
244-276 (8.0-9.1)	5C2 (cont.)	abrupt lower boundary; few very fine sand laminar lenses.
276-307 (9.1-10.1)	6ACb	black (10YR2/1); silty clay loam; no structure to weak, fine, subangular blocky; more massive downward; very firm; slightly effervescent; unknown lower boundary (end of tubes); collected 300-307 cm for screening of macrofossils - C-14 bulk date on organic sediments 2,050±40 BP; cores rejected on very firm clays.
Auger Samples:		
325-460 (10.7-15.1)		grayish brown (2.5Y5/2-10YR5/2) sandy clay loam diamicton; massive; firm, noneffervescent; may be alluvial, colluvial or weathered till.
572-707 (18.8-23.2)		grayish brown (2.5Y5/2) sandy clay loam to clay loam diamicton; common, coarse, strong brown (7.5YR4/6) mottles and common, fine, gray (2.5Y5/0) mottles; massive; very firm; slightly effervescent; common, well-rounded exotic pebbles; possible till.

Core/Profile: RK-32

Location: County Road 21 right-of-way

Legal description: SW ¼ SE ¼ Section 18 T104N R44W

County: Rock

Parent material:

Vegetation: Grasses

Slope: 0-3%

Elevation: 1553 feet

Topo. Map: Edgerton South

Remarks: Rock River tributary; County Road 21/Battle Creek Township Road right-of-way; 6 feet higher in elevation than RK-31; western edge of transect

Depth cm(ft)	Horizon or Zone	Description
0-11 (0-.4)	Ap1	dark brown (7.5YR3/2) silt loam; common, fine, yellowish brown (10YR5/4), fine sandy mottles; moderate, firm, subangular blocky; friable; noneffervescent; abrupt lower boundary.
11-36 (.4-1.2)	Ap2	dark brown to very dark brown (7.5YR3/2) to (10YR2/2) pebbly silt loam; weak to moderate, fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; increasing pebbles downward.
36-53 (1.2-1.7)	A	very dark brown (10YR2/2) silt loam; no structure to weak, very fine, subangular blocky; friable; noneffervescent; gradual lower boundary.
53-92 (1.7-3.0)	Bw	dark brown (10YR3/3) silt loam; weak, medium, prismatic; friable; noneffervescent; abrupt lower boundary.
92-105 (3.0-3.4)	2C	very dark brown (10YR2/2) sandy clay loam gravel; friable; strongly effervescent; unknown lower boundary (end of tubes); core rejected on pebbles and rock(?).
105-115 (3.4-3.8)		no recovery.