ANCIENT MONUMENTS LABORATORY REPORT

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Soil Report on Brandon (Suffolk), nr. Thetford

During the summer of 1981, excavations were carried out by the Suffolk Archaeological Unit (Field Officer, Bob Carr) at Brandon, where a Saxon village occurs alongside the little Ouse River. Here, in the lowest part of the river valley deep peats, and recent blown sand over Pleistocene sands and gravels occur. Peat soils and ground water gleys are present.

The excavation exposed a section of blown sand over coarse Pleistocene sands. Within the blown sand there appeared to be a buried soil covered by further blown sand capped by the modern turf. The section was described and analysed for loss on ignition and its iron content visually estimated (See Data).

Field description tended to suggest a weakly formed podzol had been buried by further blown sand, although this was mainly based on soil colour; the profile being generally structureless (single grain). However, the analyses tended to suggest that the "bAh" occurs in a gleyed zone from the Bg2 to the Bg4 (bEa) horizon, which is characterised by a depleted iron content. Iron occurs mainly in the topsoil and basal horizons, and so the mottling and low iron content seem to occur in the area of the fluctuating water table, in the centre of the soil. Loss on ignition, as a measure of organic matter could only poorly indicate a buried soil.

Therefore, the whole soil has to be classified as a ground water gley of the Highlodge Series (Corbett, 1973) which is included in the Complex of Highlodge, Isleham, Row (Gleys) and Adventurers (Peat) Series mapped elsewhere in the valley of the Little Ouse River. In fact, the Highlodge Series is noted for having its major gleyed zone at 45-60 cms. depth, correlating with the very pale horizon at Brandon.

Nevertheless, the possibility of a soil being buried at Brandon cannot be fully ruled out, because the present fluctuating water table and mid-profile gleying would tend to obscure any weakly formed soil in a sandy substrate.

References

Corbett, W.M., 1973. Breckland Forest Soils. Special Survey No. 7. Soil Survey, Harpenden.

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Data

Horizon	pH	% loss on ignition
Ap/Ah	N.D.	7.86
Bg	N.D.	1.93
Bg/Bg2	N. D.	0.75
Bg2	N. D.	1.34
Bg3 (bAh)	5.2	0.79
Bg4 (bEa)	6.0	0.63
Bg5 (bBh s)	6.1	0.93
Bg6 (bB(s))	6.3	1.03
2Cg	6.3	0.73

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Soil Description. Brandon, Norfolk

Near Hut 734, by grid peg 89/55 Site: Valley bottom of Little Ouse River Parent Material: Recent blown sand over Pleistocene sand Soil Type and Series: Gound Water Gley, Highlodge Series horizon, depth, cms.

A_p/Ah	Black (5YR 2.5 /1) loose to very weak medium sand; fine granular;
0-16	abundant fine roots; humose; gradual, wavy boundary.
Bg	Dark grey (5YR $4/1$) very weak sand, with common medium diffuse
16-45	mottles; structureless; common fine roots; gradual, wavy boundary.
Bg2	Reddish grey (5YR $5/2$) moderately firm sand, with common medium
45-60	diffuse mottles; massive; clear smooth boundary.
Bg3 (bAh)	Dark grey (5YR $4/1$) moderately weak sand; structureless; clear,
60-70	smooth boundary.
Bg4 (bEa)	Grey to dark grey (5YR 5/1 - 4/1) moderately weak structureless
70-80	sand; gradual, smooth boundary.
Bg5 (bBhs)	Dark reddish brown (5YR $3/2$) very weak structureless sand; diffuse,
80-90	wavy boundary.
Bg6 (bB(s))	Reddish brown (5YR $4/4$) very weak structureless sand; narrow,
90-105	smooth boundary.
2Cg	Brown (7.5YR $4/4$) very weak, wet structureless, coarse sands.
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