

Quaternary Deposits of Illinois

revised by
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1996

Hudson and Wisconsin Episodes

Mason Group and Cahokia Fm

 Cahokia and Henry Fms; sorted sediment including waterlain river sediment and windblown and beach sand

 Equality Fm; fine grained sediment deposited in lakes

 Thickness of Peoria and Roxana Silts; silt deposited as loess (5-foot contour interval)

Wedron Group (Tiskilwa, Lemont, and Wadsworth Fms) and Trafalgar Fm; diamicton deposited as till and ice-marginal sediment

 End moraine

 Ground moraine


Illinois Episode

 Winnebago Fm; diamicton deposited as till and ice-marginal sediment

 Glasford Fm; diamicton deposited as till and ice-marginal sediment

 Tenerife Silt and Pearl Fm, including Hagarstown Mbr; sorted sediment including river and lake deposits and wind-blown sand

Pre-Illinois Episodes

 Wolf Creek Fm; predominantly diamicton deposited as till and ice-marginal sediment

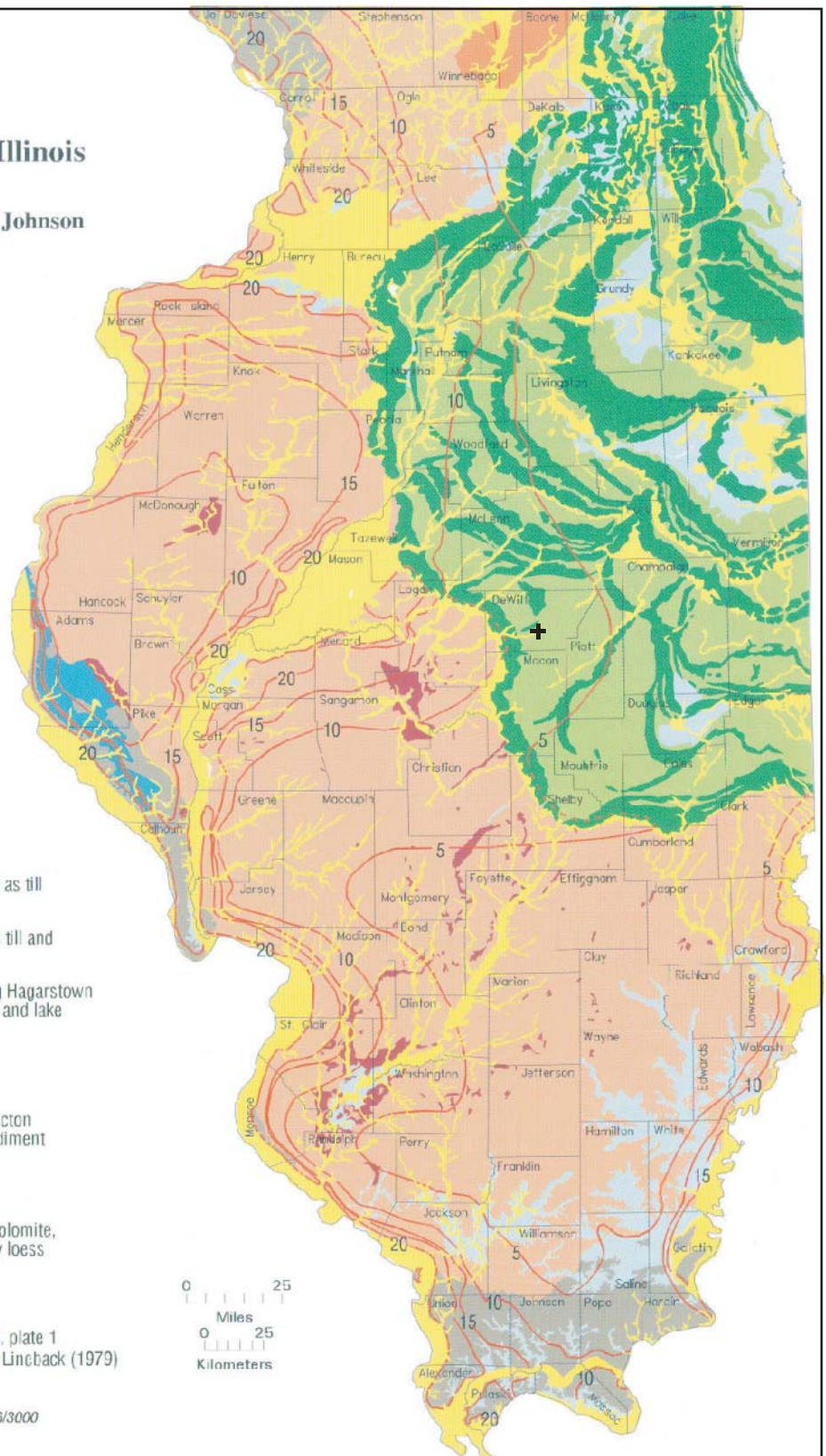
Paleozoic, Mesozoic, and Cenozoic

 Mostly Paleozoic shale, limestone, dolomite, or sandstone; exposed or covered by loess and/or residuum

 Site

Illinois State Geological Survey Bulletin 104, plate 1
Revised from Willman and Frye (1970) and Linbeck (1979)
Digital compilation by B.J. Stiff

Printed by the authority of the State of Illinois/1996/3000

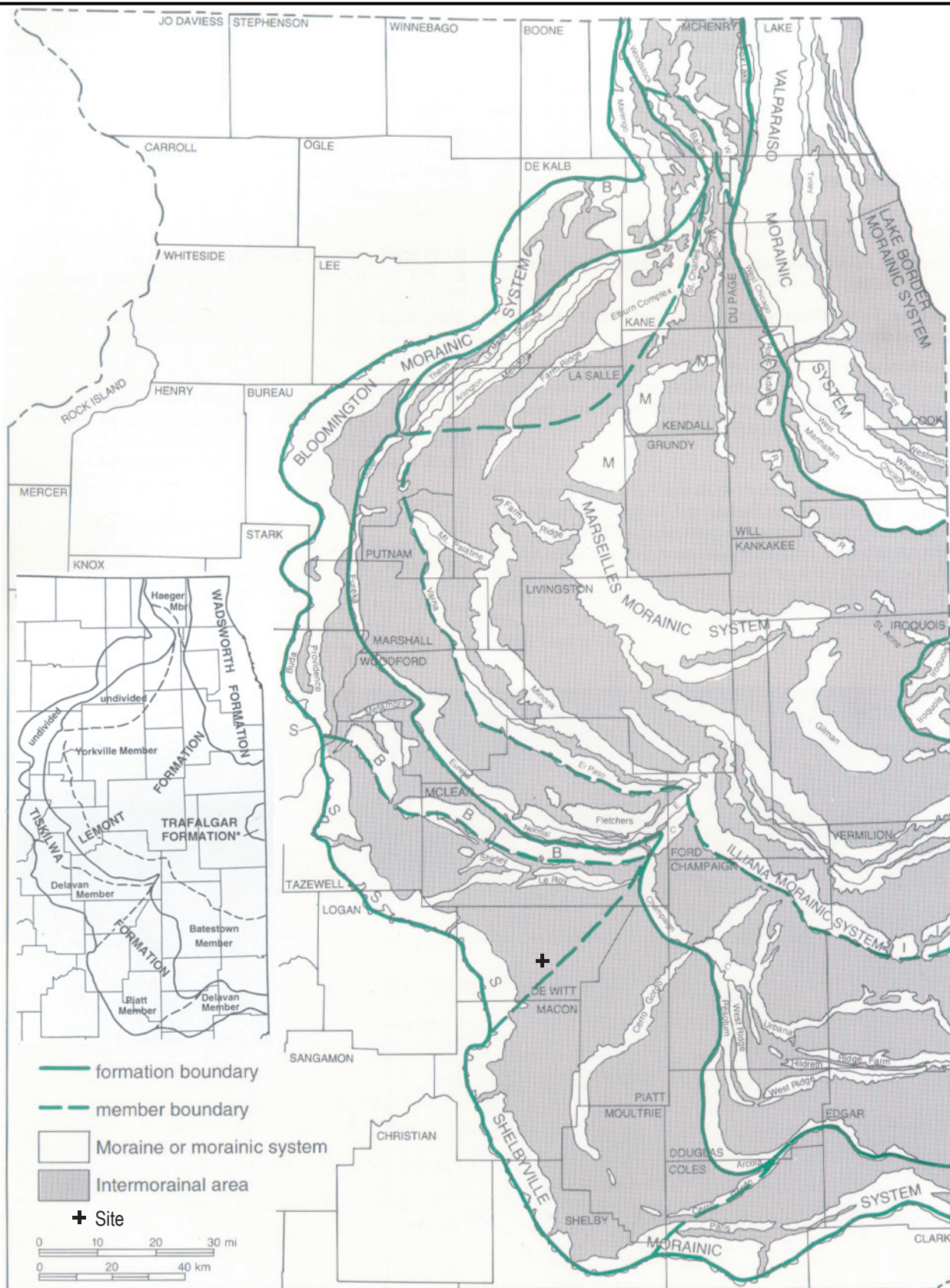


From: Hansel and Johnson (1996)

Seismic Hazards Report for the EGC ESP Site
Areal Distribution of the Wedron and Mason Groups
(Wisconsin and Hudson Episodes) and
Deposits of the Illinois and Pre-Illinois Episodes in Illinois

Figure
B-1-7

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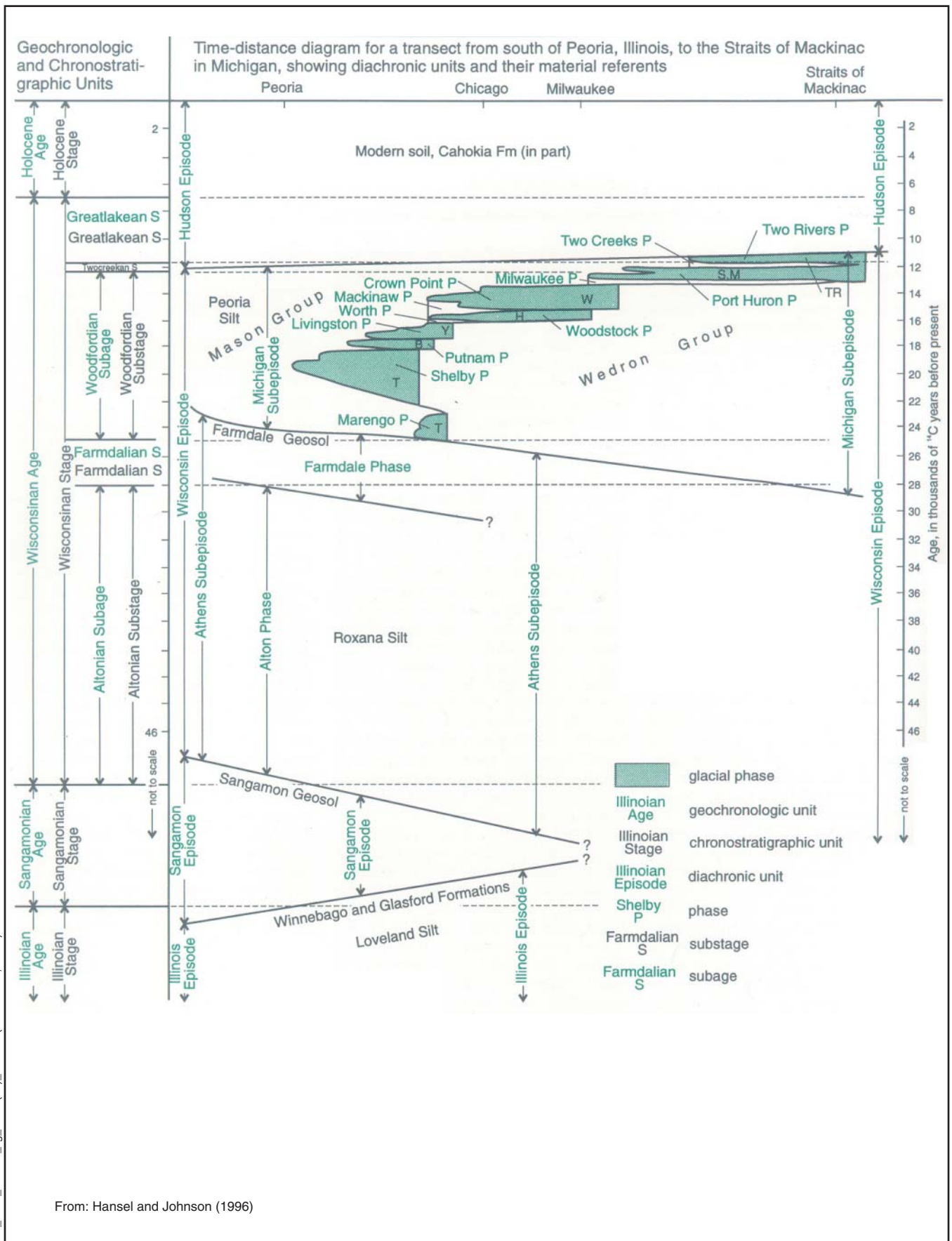


Modified from: Hansel and Johnson (1996)

Seismic Hazards Report for the EGC ESP Site
Areal distribution of moraines and boundaries of formations
and principal members of the Wedron group

Figure
B-1-8

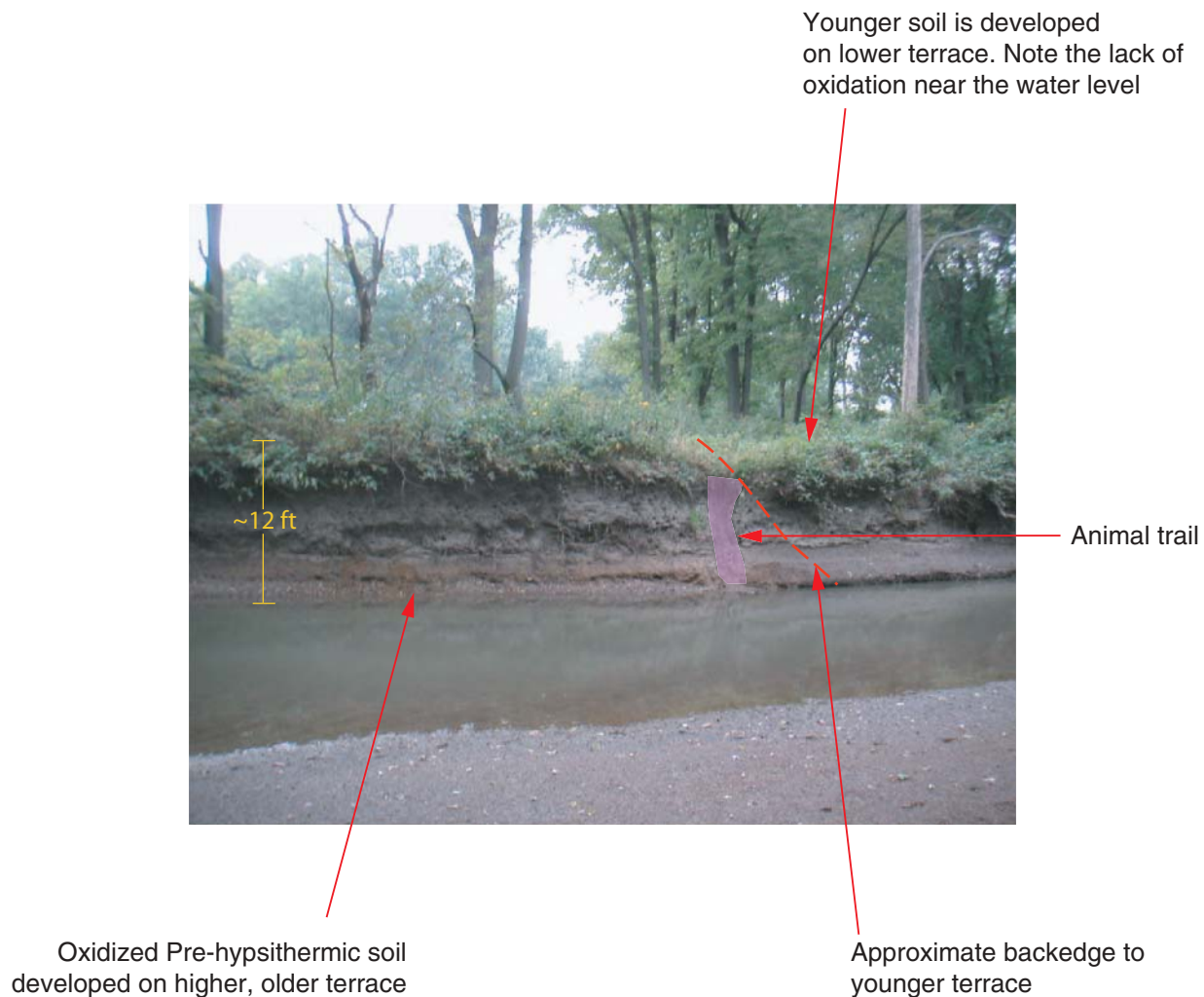
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Seismic Hazards Report for the EGC ESP Site
Geochronologic Units, Chronostratigraphic Units and
Diachronic Units in the Lake Michigan Lobe

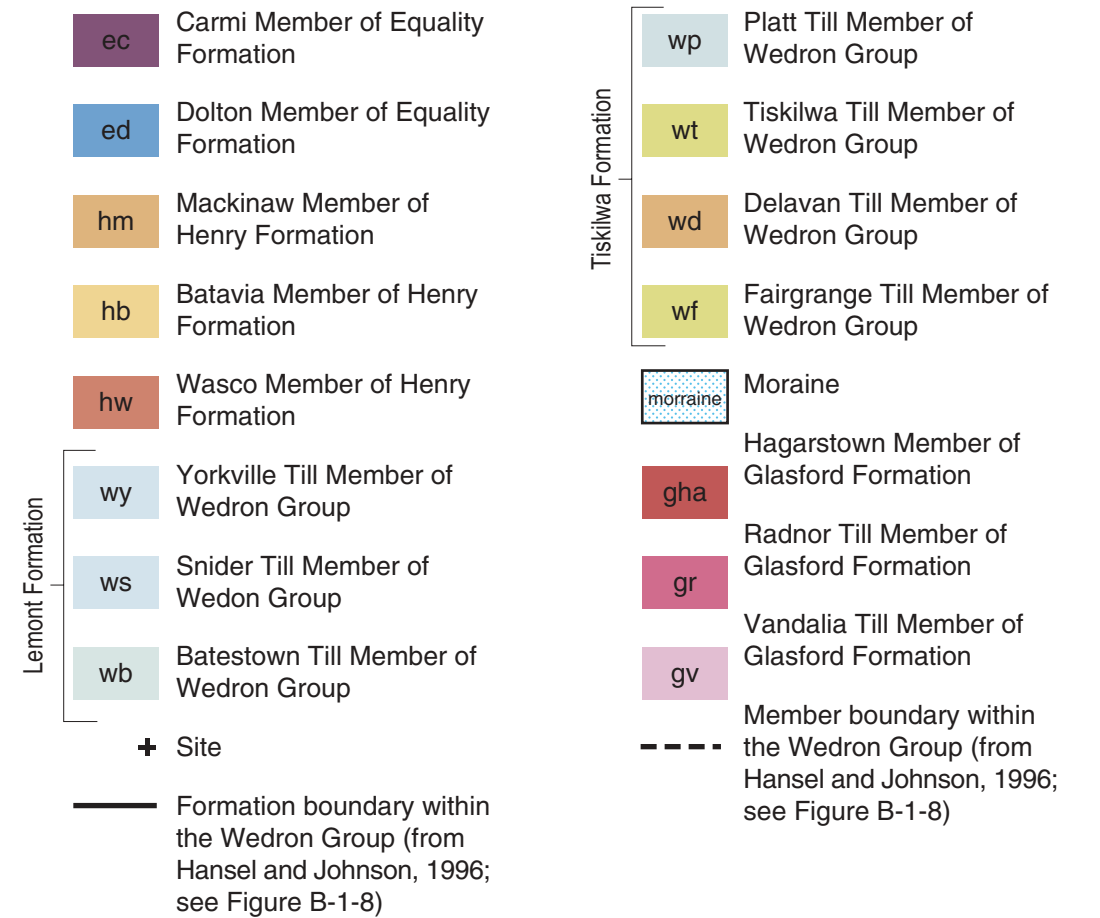
Figure
B-1-9

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Seismic Hazards Report for the EGC ESP Site
Photograph of Riverbank Exposure on Salt Creek Showing
Fluvial Terrace Deposits of Two Ages

Figure
B-1-10



Notes

1. Modified from Lineback, 1979
2. More recent studies (Hansel and Johnson, 1996) reassign several members of the Wedron Group to better match moraine morphology. These new formation and member boundaries are shown here and on Figure B-1-8). Therefore, some map units on this figure may not agree with current formation and member boundaries within the Wedron Group.

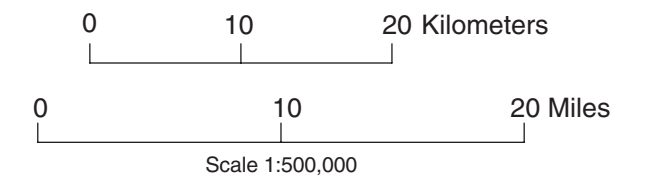


Figure B-1-11
Seismic Hazards Report for the EGC ESP Site
Map Of Quaternary Deposits
In The Site Vicinity