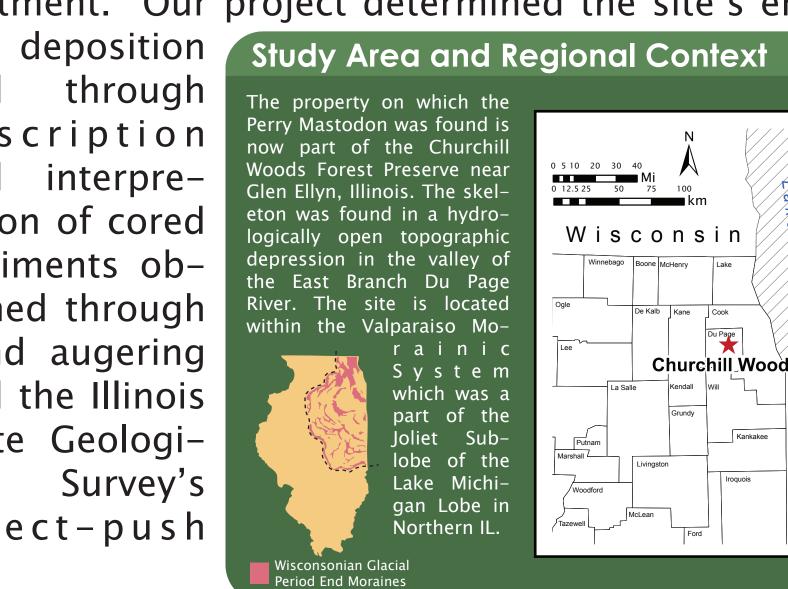
T159. Quaternary Geology and Geomorphology: Past, Present, and Future

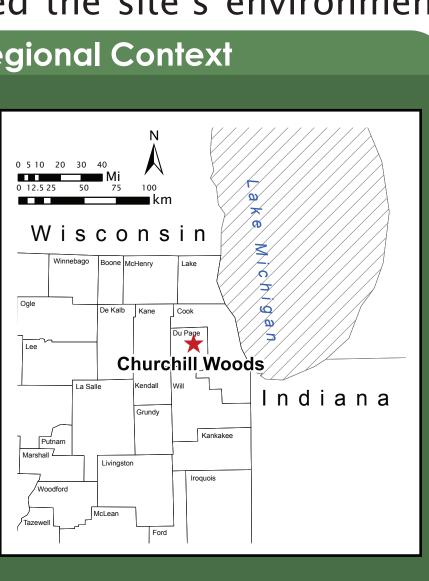
INTRODUCTION

The Perry Mastodon (*Mammut americanum*) was excavated in Glen Ellyn, Illinois, in October, 1963, immediately after it was discovered during construction of a residential pond. Little attention was paid to the geological setting during the eight-day excavation by the Wheaton College Geology Department. Our project determined the site's environment

and through description and interpretation of cored sediments obtained through ' hand augering and the Illinois State Geological Survey's direct-push







METHODS

Stratigraphy was determined by using two methods of subsurface sampling:

•Geo-probe core extraction using a back-end truck probe provided three of the five cores. •Hand augering using a 15cm diameter bucket auger and

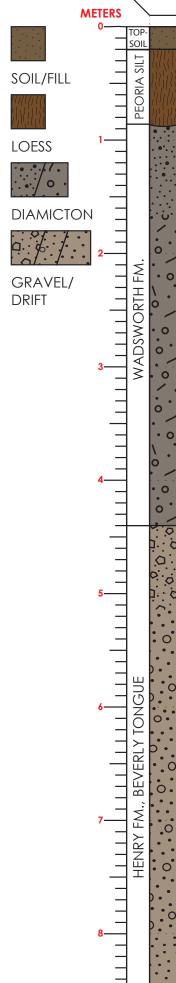
1m increments of extension rod yielded the final two subsurface samples.

These were taken back into the lab and logged, analyzed, and photographed in 10cm increments.









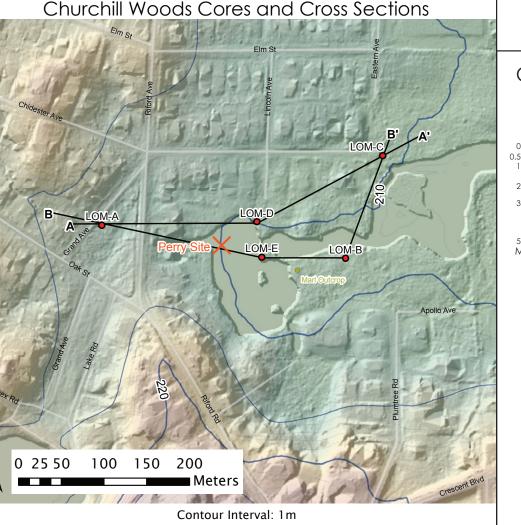


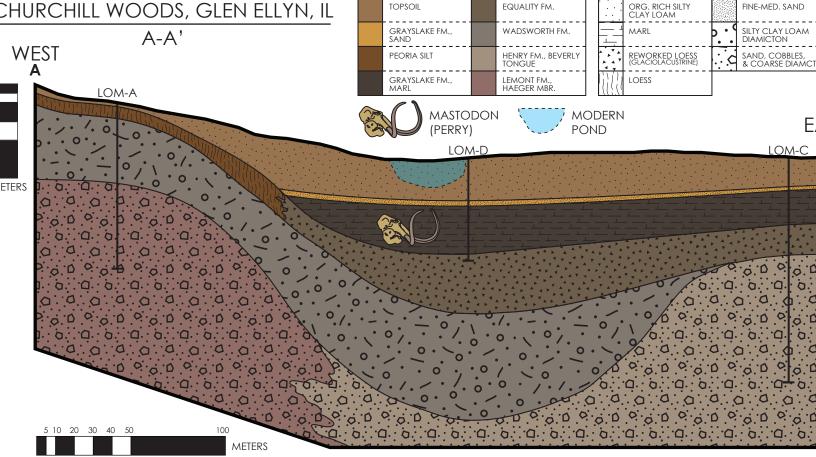


RESULTS

The upward vertical succession is: (a) muddy sand of the Haeger Member of the Lemont Formation, (b) undifferentiated sand and gravel, (c) silt loam diamicton of the Wadsworth Formation, (d) loess of the Peoria Silt Formation, (e) fossiliferous laminated silt of the Equality Formation, (f) fossiliferous marl and peat of the Grayslake Peat and, (g) sterile fluvial sand of the Henry Formation.







LOM-A GRAPHICAL LOG

SILT	SAND	GRAVEL	DESCRIPTION/ INTERPRETATION
1117772400000 ht/h1h40111 h1/h1h402/sh10 h1/h1h402/sh10 h1/h1h402/sh10			Dark brown/orange silty clay loam rich in organics at top which grades to dense grey loam with oxidized mottles at base. A Horizon of modern soil developed in loess.
/ · · · · ·			Dark brown silty clay loam, possible <i>krotovina</i> burrows at base. The Peoria Silt is mostly proglacial loess originating from glacial meltwater chan- nels.
			Tan/orange calcareous and poorly sorted diamicton with sand in muddy silt loam matrix. Gradually transitions to a dense gray silty clay loam with pebbles and cobbles. Massive, well sorted solid gray silty clay loam at base. Wad- sworth Formation here reworked. Ice-marginal envi- ronment over proglacial lacus- trine environment. (Hansel and Johnson, 1996)
			Sharp transition to light tan poorly sorted gravel with angular to subround cobbles at top. Top half meter is likely debris flow of reworked Wadsworth. Fines downward gradually to coarse sand at base with little

ily. The Beverly Tongue here

s a proglacial fluvial facies of

a glacigenic sequence that

includes subglacial till capped by the Haeger

Member, Lemont Formation.

CALC. MUD SILT LOAM aeolian) or by a flood. RAMSHORN Helisoma sp WHORL





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Brandon Curry, Illinois State Geological Survey





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