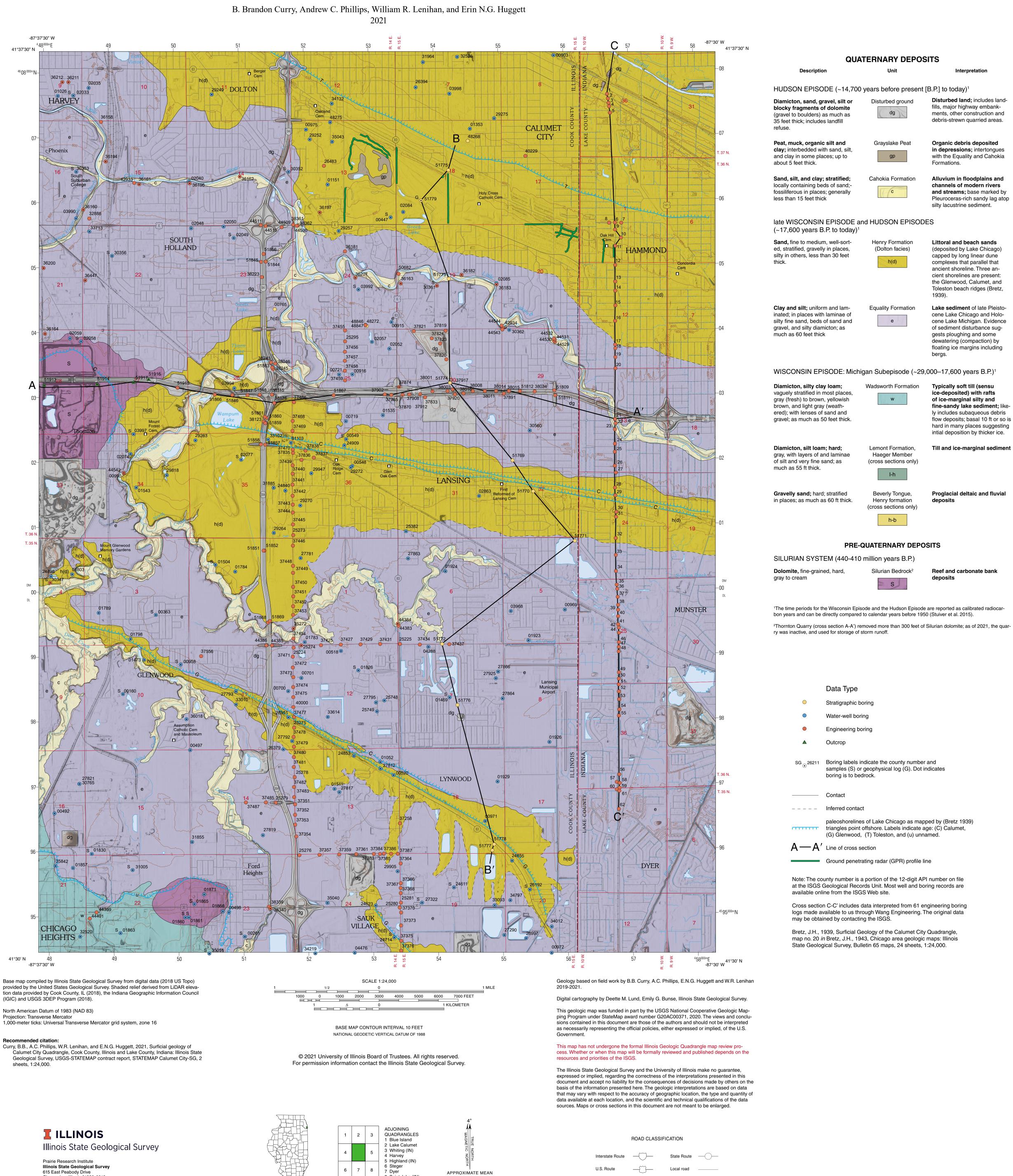
SURFICIAL GEOLOGY OF CALUMET CITY QUADRANGLE

Prairie Research Institute **ILLINOIS STATE GEOLOGICAL SURVEY** COOK COUNTY, ILLINOIS AND LAKE COUNTY, INDIANA

STATEMAP Calumet City-SG



APPROXIMATE MEAN

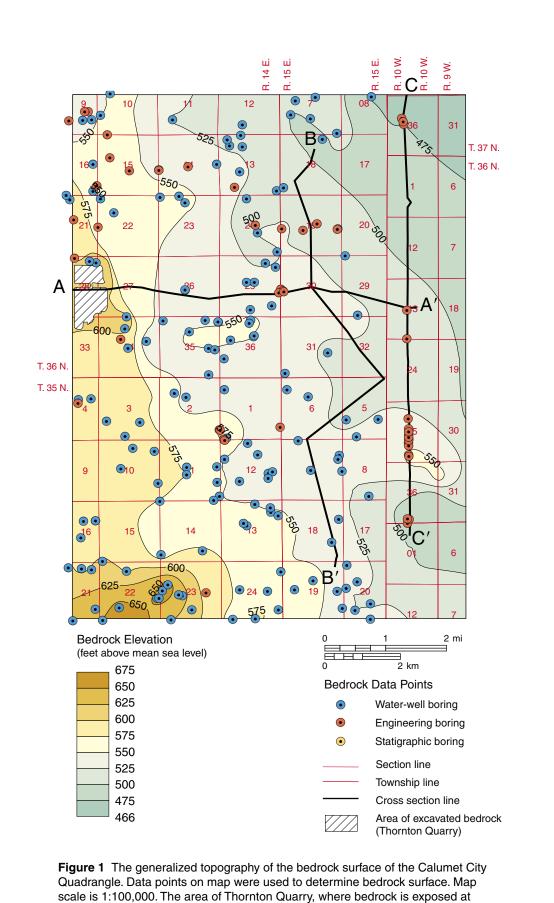
DECLINATION, 2021

8 Saint John (IN)

Champaign, Illinois 61820-6918

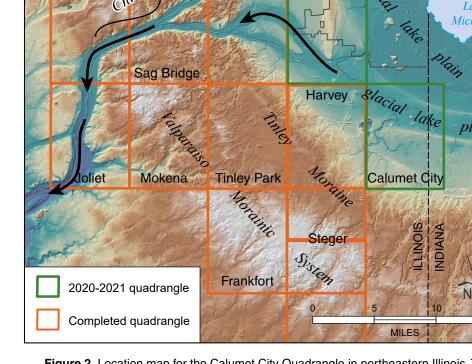
http://www.isgs.illinois.edu

(217) 244-2414



the surface, has been excavated to a maxiumum depth of 253 feet above mean

sea level.



Palos Park Blue Island

Figure 2 Location map for the Calumet City Quadrangle in northeastern Illinois. The area includes portions of the Valparaiso Morainic System, and the Tinley Moraine, and Chicago Plain (glacial lake plain).

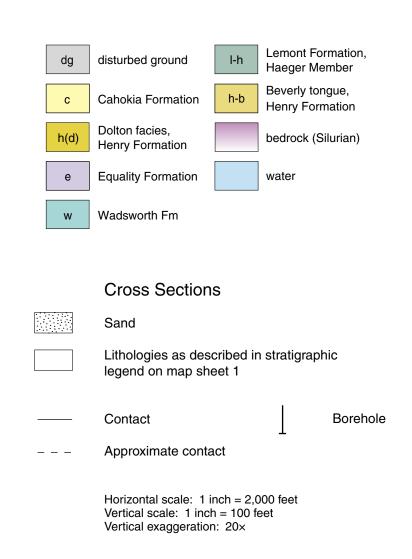
the percent particles remaining at 10, 50, and 90 percent, respectively, on the cumulative data curve. The ratio of Dx50/Dx10 provides information about relative sorting, with smaller values indicating better sorting. Less than 2mm fraction Clay (%) Sand Silt (%) USDA Content Dx 10 Dx 50 Dx90 (t/ft²) Dx10 Classification 13.9 20.7 dg disturbed ground 9.6 1.1 12.4 68.5 19.2 2.2 13.7 79.1 6.3 Cahokia 1.9 4.4 6.9 2.6 0.3 0.3 26.7 0.8 St. Dev. Formation 3 3 3 3 3 3 2.6 2.0 6.6 26.1 8.2 1.9 5.7 36.3 11.9 h(d) Henry Formation St. Dev. 0.9 5.1 36.7 9.5 1.4 7.1 38.9 11.0 S(5), LS(2) Dolton Member 7 7 7 7 7 7 7 7 0.7 5.5 63.3 31.2 1.4 8.9 41.1 6.4 ZCL(15), ZL(4), ZC(2), Z(1) 1.7 3.1 10.4 8.4 1.1 4.8 14.2 0.8 Equality Formation 22 22 22 22 22 22 3.8 9.2 53.6 37.2 1.1 6.6 59.2 6.1 Wadsworth 5.1 2.6 6.2 5.7 0.4 2.3 32.7 0.4 Formation 37 37 37 37 430 8.8 63.3 27.9 1.4 9.5 56.1 6.8 Lemont Formation Haeger Member St. Dev. 8.5 12.1 61.1 26.9 1.5 9.8 120.4 6.4 ZCL(9), ZL(3) 12 12 12 12 12 12 12 12

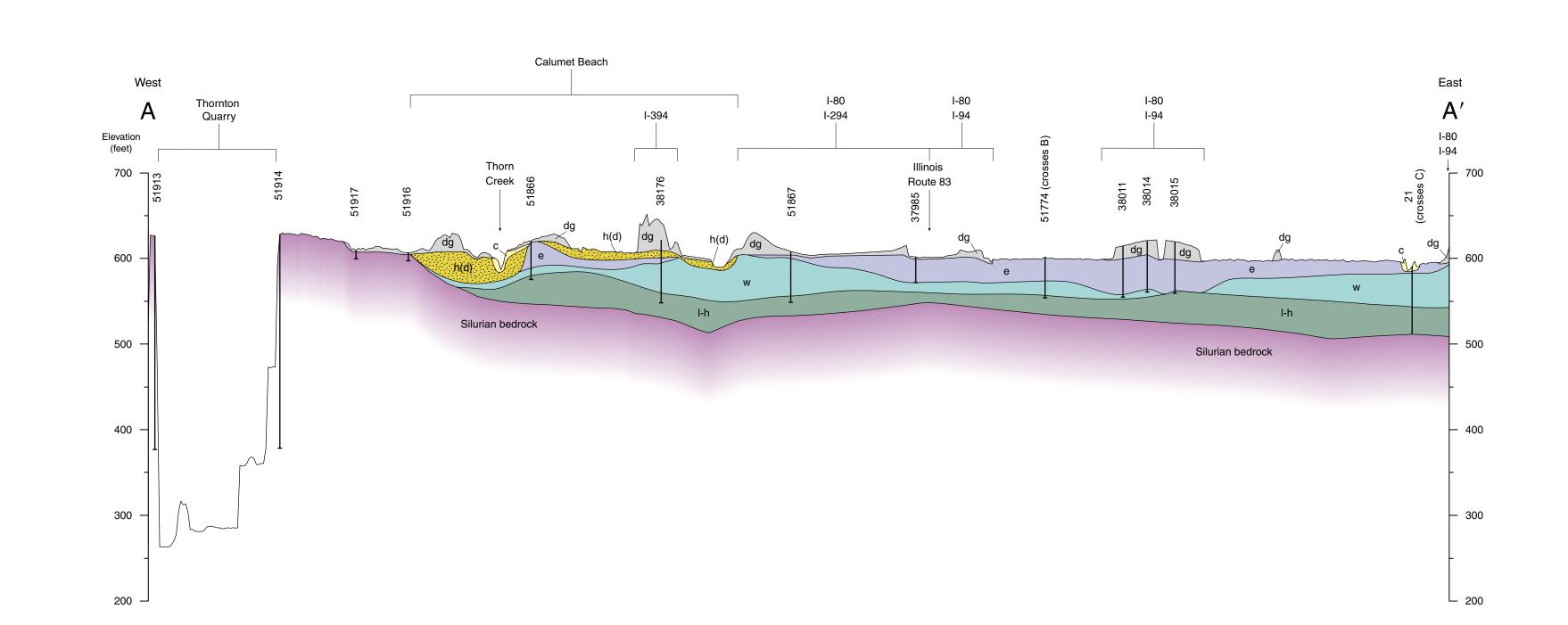
16.2 6.9 2.5 74.1 18.6 7.3 6.5 195.5 391.8 33.9

36 22 4 4 4 4 4 4 4 4

3.1 2.9 3.4 2.6 2.0 1.3 1.9 63.0 112.7 18.9 LS(4)

Table 1 Mean and standard deviation of unit properties, including depth (feet), SPT (Standard Penetration Test), % refusal (SPT > 100 blows/ft), moisture content, unconfined compressive strength (Qu, t/ft2), and particle size distribution data by laser diffraction methods at Prairie Research Institute. Dx10, Dx50 and Dx90 refers to





Henry Formation St. Dev.

ZCL = silty clay loam, ZC = silty clay, Z = silt, LS = loamy sand, S = sand, ZL = silt loam, Z = silt loam, Z

Beverly Tongue

