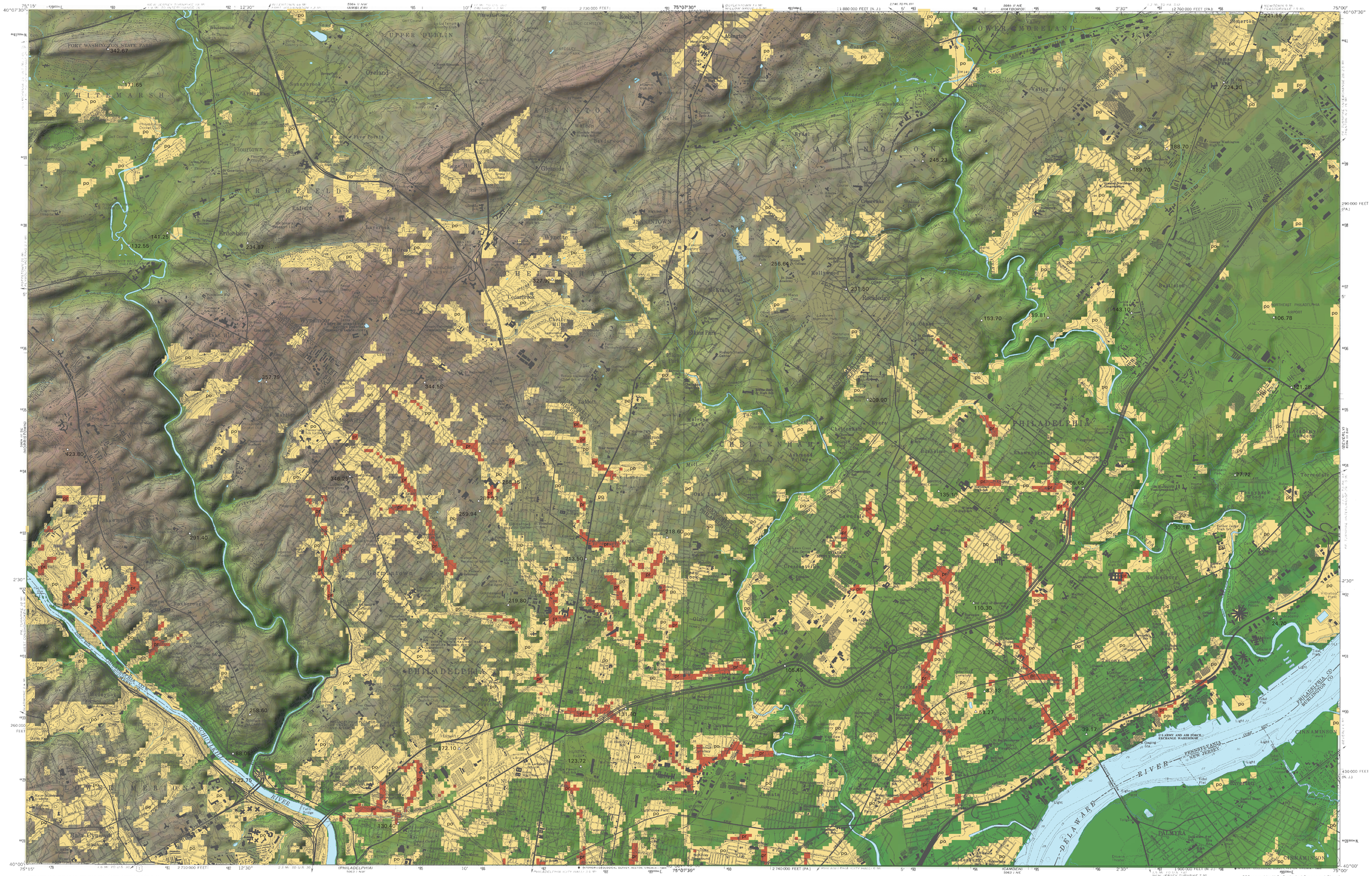

Base from U.S. Geological Survey Digital Raster Graphics (DRG's) of Frankford, 1997 and Germantown,1997.

North American Datum of 1927 (NAD 27)
Projection: Universal Transverse Mercator (UTM), zone 18

APPROXIMATE MEAN DECLINATION, 1998

SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

MAP LOCATION

Study area quadrangle index map

GPS control by U.S. Geological Survey and City of Philadelphia, U.S. Geological Survey GPS control by J.L. Blair, K.Lagueux and P.G. Chirico, March 2000

MAP NOTE

It is important to note that the exact location of the fill, its total thickness or depth, its engineering characteristics, and nature of ground-water movement need to be ascertained to judge the potential for subsidence or settling of the ground. Zones designated as possible or probable fill do not imply the occurrence of, nor the potential for, structural subsidence. The map does not show the depth of possible or probable fill, the origin or composition of the fill material or any engineering characteristics of sites located in or near fill areas.

MAP SHOWING DISTRIBUTION OF FILL IN THE FRANKFORD AND GERMANTOWN QUADRANGLES, PHILADELPHIA AND MONTGOMERY COUNTIES, PENNSYLVANIA AND BURLINGTON COUNTY, NEW JERSEY

By
Peter G. Chirico and Jack B. Epstein

2000

DESCRIPTION OF MAP UNITS

po — **Possible Fill** - GIS grid analysis results showing positive topographic change (5 or more feet of fill from between 1899 and 1997) *or* evidence of a buried stream channel.

pr — **Probable Fill** - GIS grid analysis results showing positive topographic change (5 or more feet of fill from between 1899 and 1997) *and* evidence of a buried stream channel.

DESCRIPTION OF MAP SYMBOLS

△ 268.15 — **GPS Ground Elevation** - Global Positioning System (GPS) ground control elevation points collected by the U. S. Geological Survey and the City of Philadelphia. These elevations form the control network used to evaluate digital elevation model (DEM) interpolation and subsequent grid analysis.

0 30 60 90 120 150 180 210 240 270 300 330 360 390 420 450

Elevation values are in feet above mean sea level