6: NRCS SSURGO SOILS

Soil materials consist of a variable and complex mixture of organic matter, sand, silt, and clay particles. Strata of similar physical and chemical composition form soil horizons. Soil formation occurs under the influence of climate, parent materials including bedrock, flora and fauna, topography and time. Collectively, these are known as the soil forming factors.

Soil units are the base classification code of soil nomenclature. The characterization process is directed by nationwide uniform procedures that account for particulate composition and size, stratification, and topography. These soil units are also extensively characterized by a number of performance characteristics reflective of the structure of that soil. These soil properties would include capability grouping for crop suitability, compaction, strength, shrink-swell potential, available water capacity, and permeability.

Soil plays a vital role in both ecosystem function and cultural development. Soil serves as the structural interface for vegetation and the source of vital nutrient generation; it filters and purifies stormwater, preventing groundwater contamination; it serves as the matrix for groundwater storage; and it stores large amounts of organic carbon. Cultural interaction with soils includes agricultural tillage, development, and engineering projects. Knowledge of soil properties is applied to farm and woodland management; in the selection of sites for roads, buildings, and other structures; and in determinations of suitability for agriculture, industry, recreation, and preservation.

The corresponding soils figure depicts the SSURGO soil units data for the Township of Franklin (Figure 6). SSURGO is the Soil Survey Geographic Database maintained by the Natural Resources Conservation Service (NRCS), which is a detailed geographical characterization of soils at a unit level. The associated soil types are generally described as dominantly deep, loamy; well-drained; generally stony, rocky, and gravelly soils; mainly on the Highlands and the adjacent Piedmont Plateau. The following soils types account for the majority of area in Franklin Township: Washington series (4,084.97 acres), Annandale series (2,342.26 acres) and Bartley series (1,580.68 acres).

File: P:\0420\Projects\0420006\GIS\MXD\Soils.mxd

Lopatcong Township

Harmony Township

White Tow

Greenwich Township

Bloomsbury Boro

Washington Township

Bethlehem Township

WARREN COUNTY

HUNTERDON COUNTY

Hampton Boro

Musconetcong River

Lopatcong Creek

Montana Brook

Morris Canal (Dry)

MONTANA RD

STEWARTSVILLE RD

SECOND ST

THIRD ST

CODLE RD

EDISON RD

HERLEMAN RD

CUFF SIDE DR

LENAPE TRL

MILLBROOK RD

MICA MINE RD

HALFWAY HOUSE RD

WHITES RD

BICKEL RD

GOOD SPRINGS RD

MOUNTAIN VIEW ROAD WEST

HOFFMAN RD

HARLEY CT

INSCHO RD

MOUNTAIN VIEW RD

BUTLER RD

BLOOMSBURY RD

SMEKLAND RD

WARNE WAY

PRICE DR

BRYANT RD

COPPERFIELD DR

WATERBROOK DR

MORRIS TPKE (RT. 57)

DIRT LN

BUTTERMILK BRIDGE RD

ASBURY-BROADWAY RD

MAIN ST

MAPLE AVE

KITCHEN RD

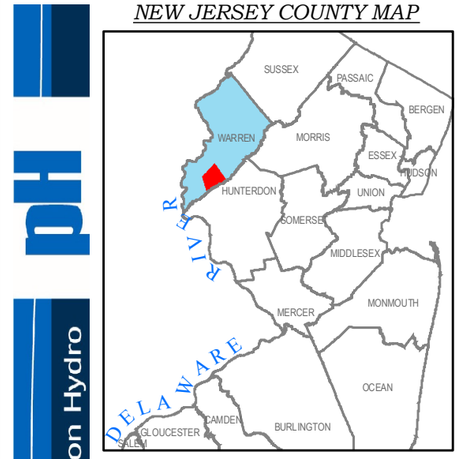
ANDERSON RD

HALLSMILL RD

RUNNER CT

SURRY LN

SHIRTS RD



NEW JERSEY COUNTY MAP

PRINCETON HYDRO, LLC.
1108 OLD YORK ROAD, SUITE 1
RINGOES, NEW JERSEY, 08551

N

0 1,500 3,000 Feet

1 inch equals 3,000 feet

SOURCES:

1. Parcel, roads and the Franklin Township Boundary data obtained from Warren County Planning Dept. "This map was developed using the Warren County New Jersey, Geographic Information System digital data, but this secondary product has not been verified by Warren County and is not county-authorized."
2. Surface water data obtained from the NJDEP, Division of GIS.
3. Soils data obtained from the USDA, Natural Resource Conservation Service (NRCS) website.

SSURGO Soils Series

- An, Annandale
- Ba, Bartley
- Bi, Birdsboro
- Ca, Califon
- Co, Cokesbury
- EP, Edneyville-Parker
- Ed, Edneyville
- Fr, Fredon
- Fv, Fluvaquents
- Ha, Hazen
- He, Hero
- Ly, Lyons
- MD, Mine Dump
- Mi, Middlebury
- NR, Nassau-Rock Outcrop
- Na, Nassau
- PT, Pits
- Pa, Parker
- Qu, Quarry
- RO, Rock Outcrop
- Wa, Wasaic
- Ws, Washington
- Wt, Water
- Wy, Wayland

FIGURE 6
NRCS SSURGO SOILS

NATURAL RESOURCE INVENTORY
FRANKLIN TOWNSHIP
WARREN COUNTY, NEW JERSEY

Legend

- County Boundary
- Municipal Boundaries
- Ponds/Lakes

Streams

- Streams
- Morris Canal (Dry)
- Roads
- Parcels

Princeton Hydro