

# Municipal Base Map

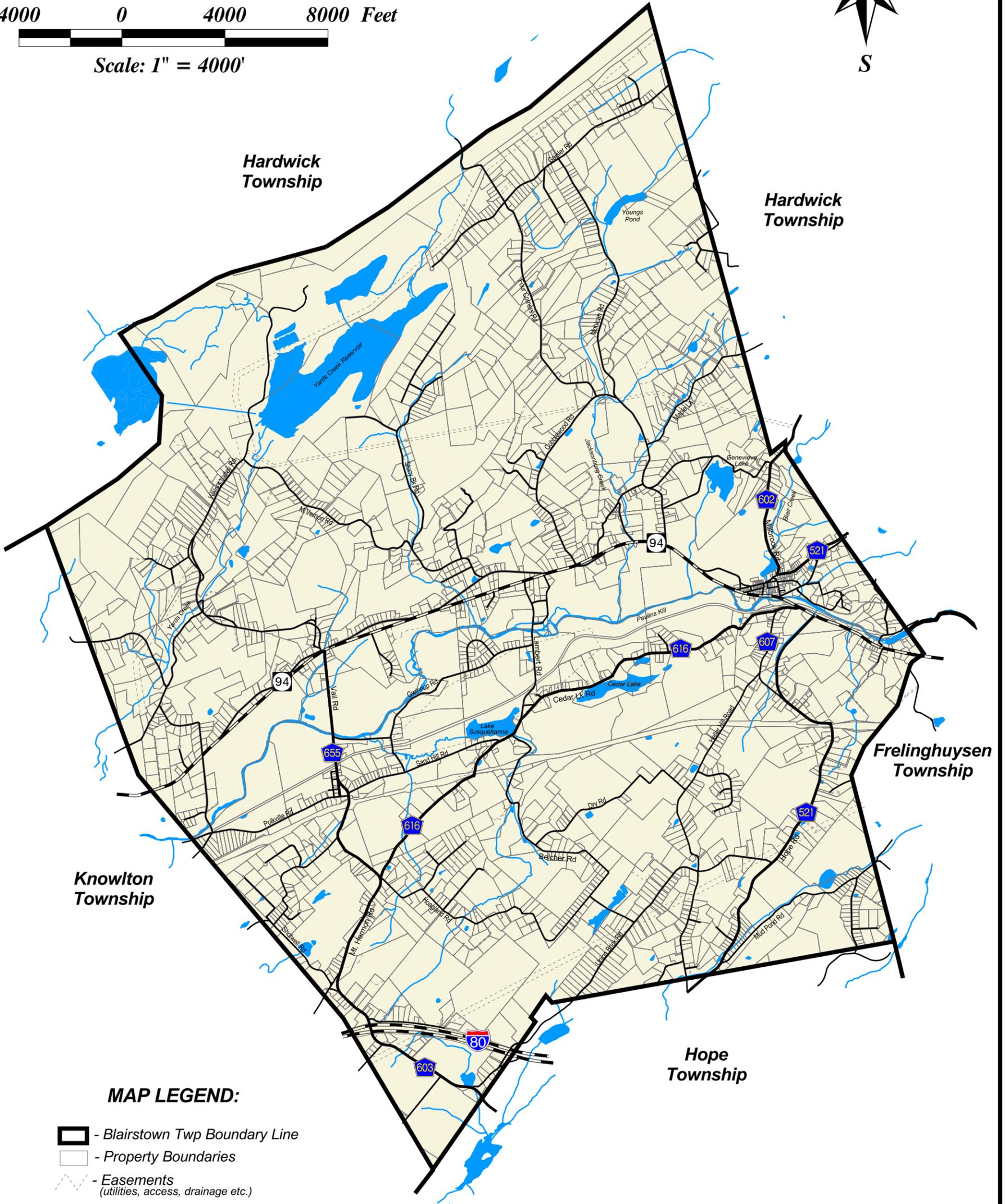
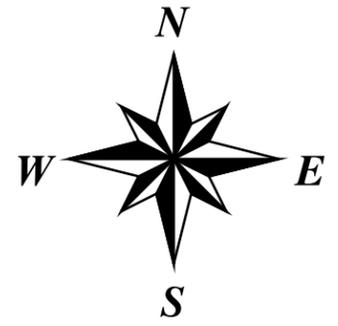
Township of Blirstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
White Environmental Services  
Phillipsburg, NJ

4000 0 4000 8000 Feet



Scale: 1" = 4000'



## MAP LEGEND:

- Blirstown Twp Boundary Line
- Property Boundaries
- Easements (utilities, access, drainage etc.)

### Roadways

- Interstate Highway
- State Highway
- County Road
- Municipal Road

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

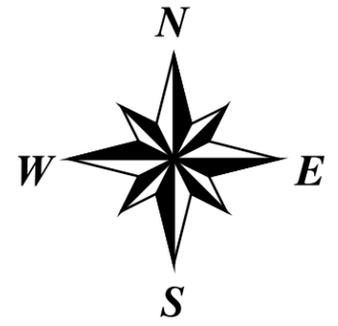
Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

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# 2002 False Color Infrared Aerial Photo

Township of Blirstown  
Warren County, NJ  
September, 2005

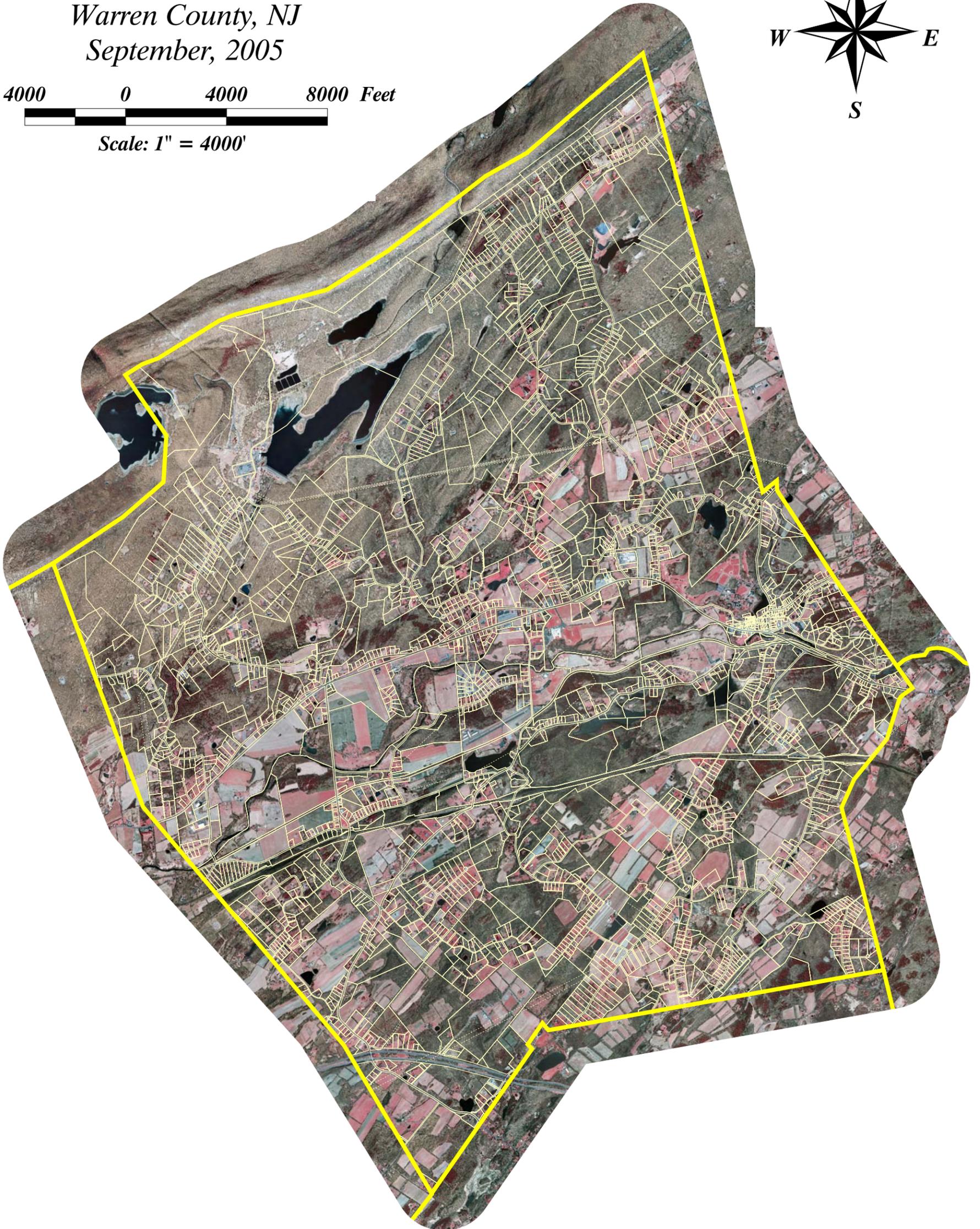
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Phillipsburg, NJ



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2002 False Color Infrared Aerial Photography supplies by NJDEP.

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# Aquifers & Wellhead Protection Areas

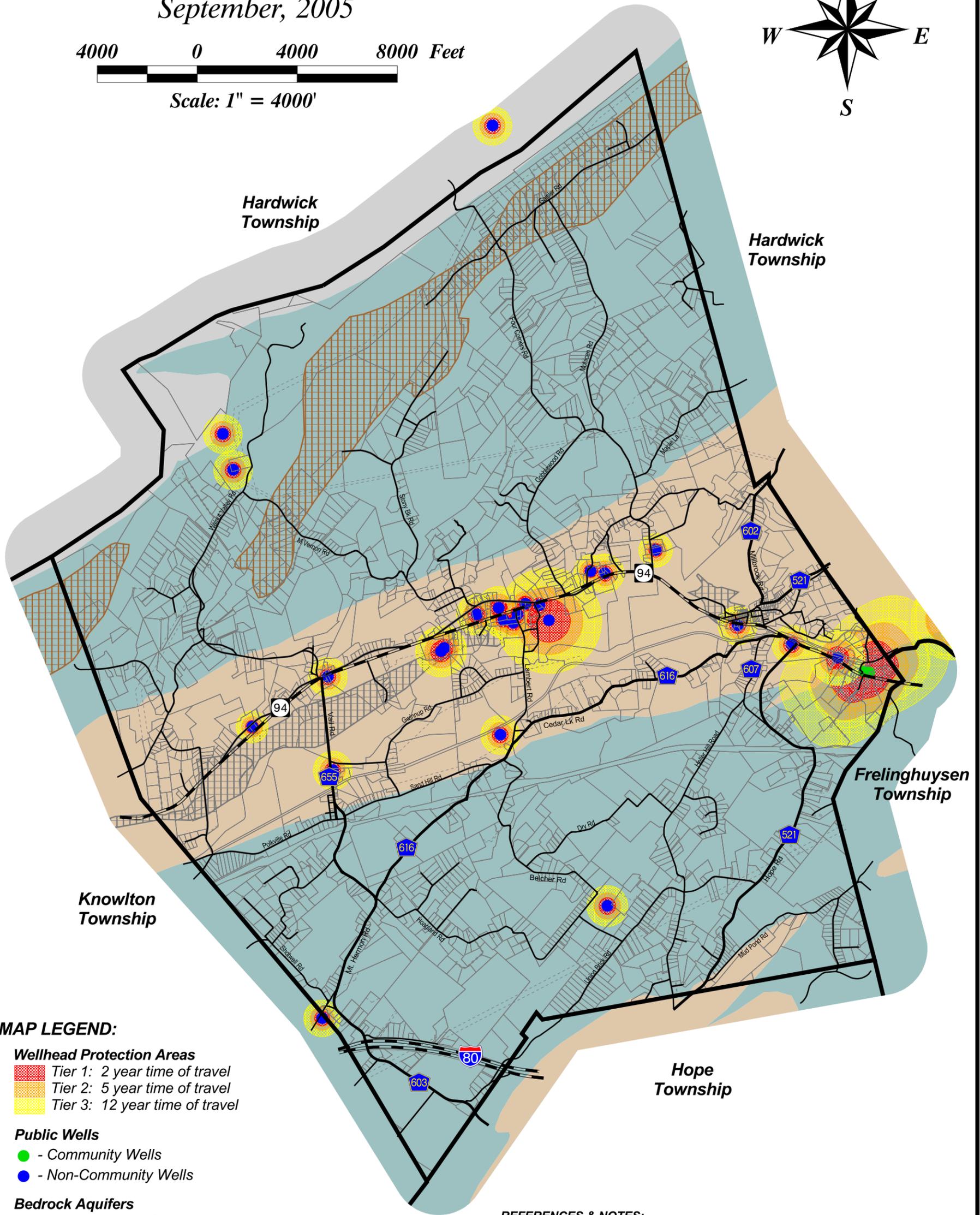
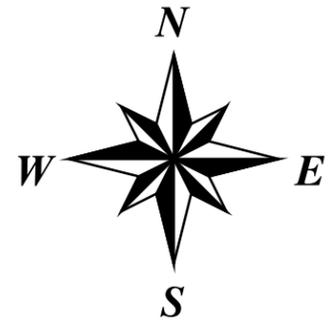
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## MAP LEGEND:

### Wellhead Protection Areas

- Tier 1: 2 year time of travel
- Tier 2: 5 year time of travel
- Tier 3: 12 year time of travel

### Public Wells

- Community Wells
- Non-Community Wells

### Bedrock Aquifers

- Rocks of the Green Pond Mt. Region, Kittatinny Mt., and Minisink Valley
- Jacksonburg Limestone, Kittatinny Supergroup, and Hardyston Quarzite
- Martinsburg Formation and Jutland Sequence

### Surface Aquifers

- Sand and Gravel
- Till

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Surficial and Bedrock Aquifers based upon NJGS, GIS database, 1998.

Wells base upon NJGS, GIS databases: "New Jersey Public Community Water Supply Wells Database", 2004 and "Public Non-Community Water Supply Wells in New Jersey", 2004.

Wellhead Protection Areas based upon NJGS GIS Databases: "New Jersey Public Community Water Supply Well Head Protection Areas", 2002 and "Warren County Public Non Community Well Head Protection Area Delineations", 2003.

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# Groundwater Recharge

Township of Blairstown

Warren County, NJ

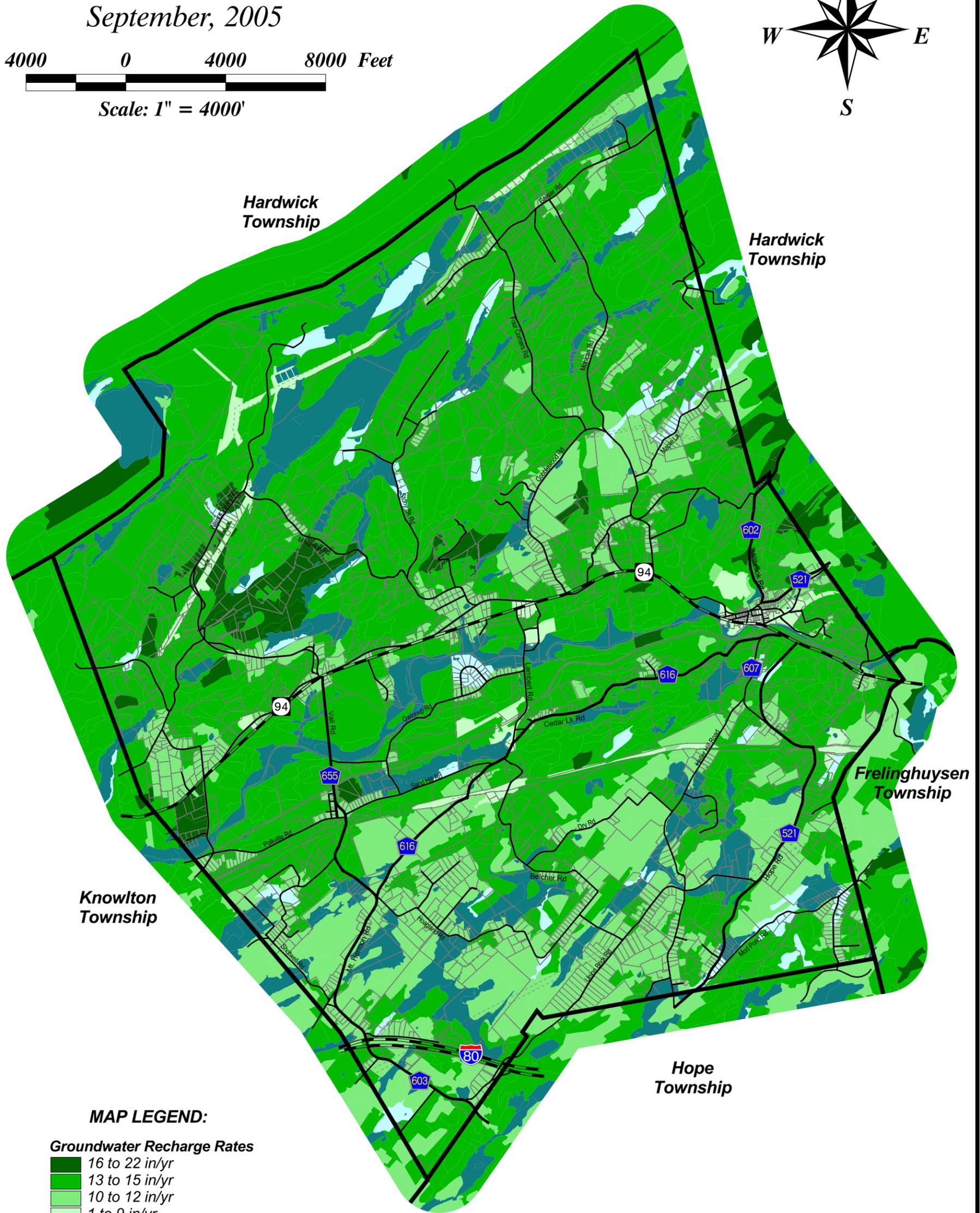
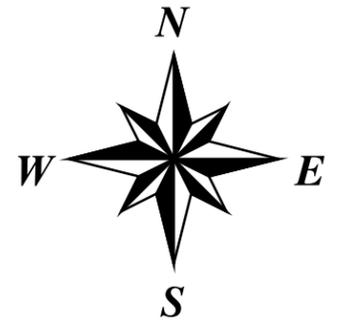
September, 2005

Mapping prepared by:  
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Phillipsburg, NJ

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Scale: 1" = 4000'



### MAP LEGEND:

#### Groundwater Recharge Rates

-  16 to 22 in/yr
-  13 to 15 in/yr
-  10 to 12 in/yr
-  1 to 9 in/yr
-  Hydric Soils
-  Wetlands and Open Water

### REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Groundwater Recharge Rates taken from NJGS GIS database: "Aquifer Recharge Project", 1997.

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# Glacial Deposits

Township of Blairstown

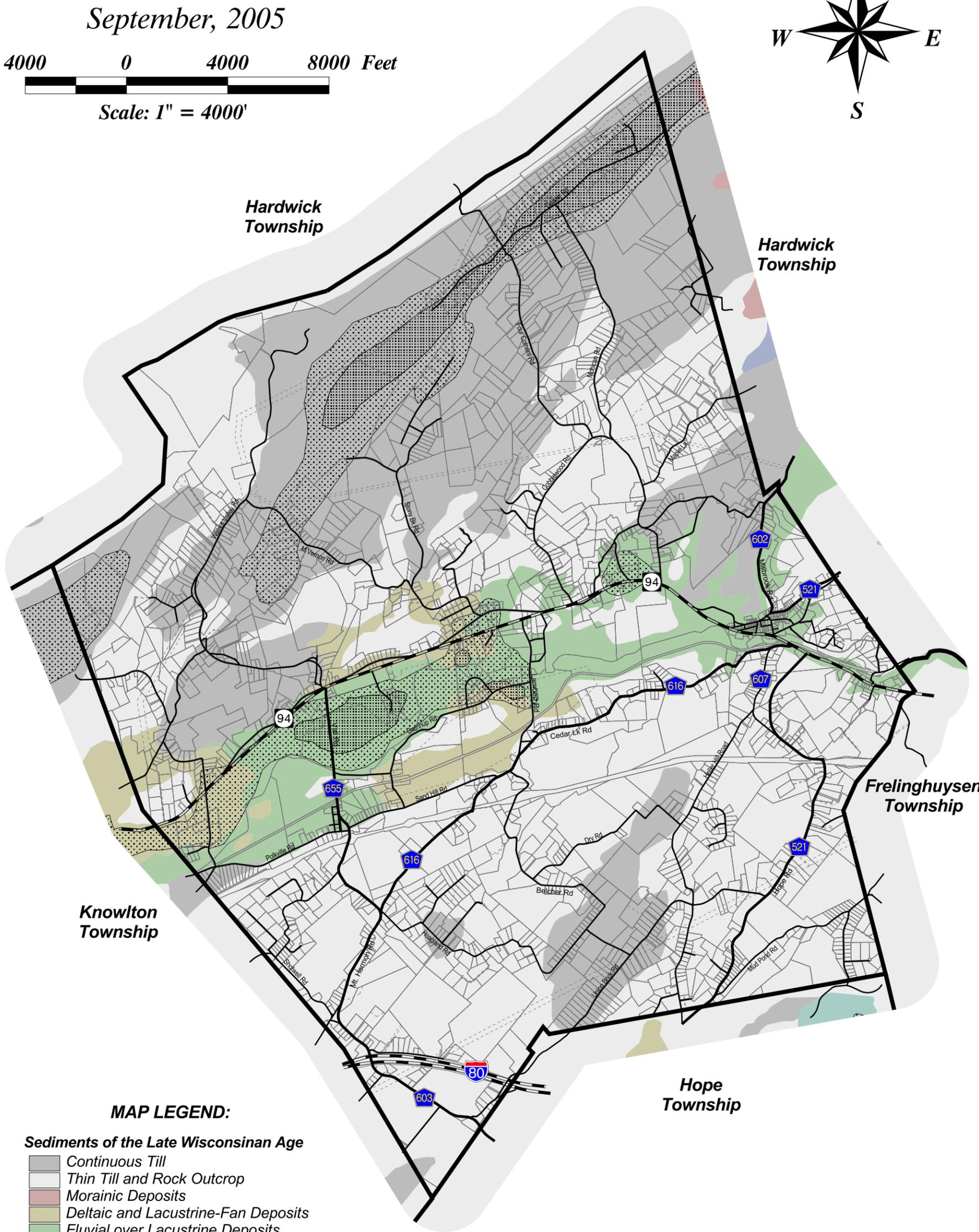
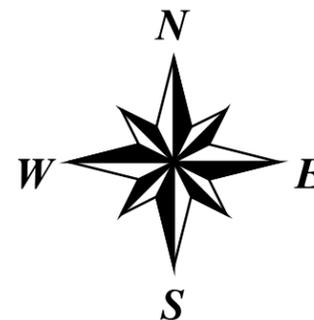
Warren County, NJ

September, 2005

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Scale: 1" = 4000'



### MAP LEGEND:

#### Sediments of the Late Wisconsinan Age

- Continuous Till
- Thin Till and Rock Outcrop
- Morainic Deposits
- Deltaic and Lacustrine-Fan Deposits
- Fluvial over Lacustrine Deposits
- Fluvial Deposits
- Ice-Contact Deposits

#### Glacial Sediment Thickness (ft)

- 100 to 149
- 50 to 99

#### REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Glacial Sediment and Sediment Thickness information taken from NJGS GIS database: "Hydrogeologic Character and Thickness of the Glacial Sediment of New Jersey", 2002.

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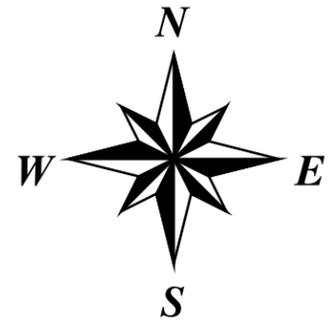
# 2004 Land Use Classifications

Township of Blairstown

Warren County, NJ

September, 2005

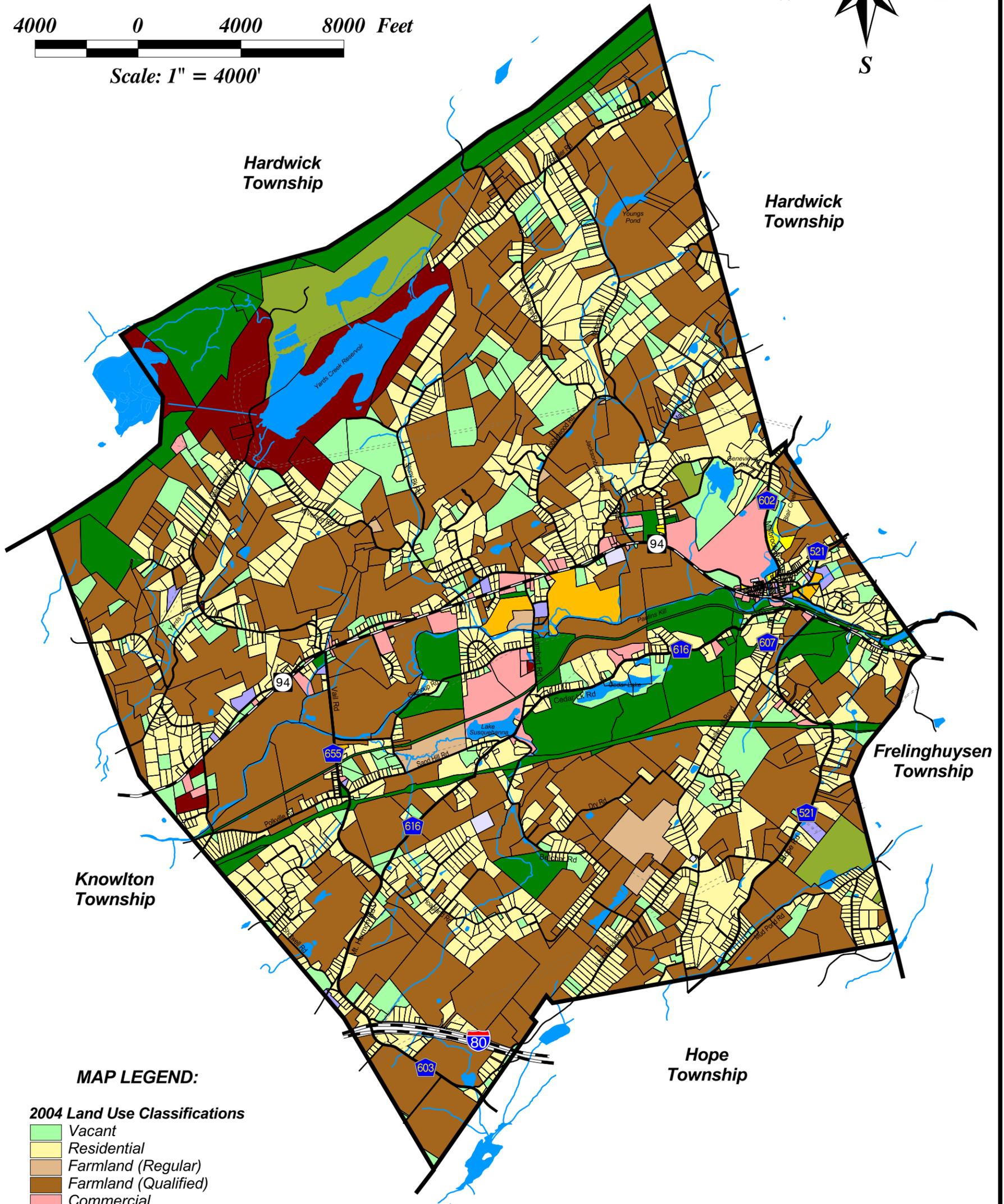
Mapping prepared by:  
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Phillipsburg, NJ



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## MAP LEGEND:

### 2004 Land Use Classifications

-  Vacant
-  Residential
-  Farmland (Regular)
-  Farmland (Qualified)
-  Commercial
-  Industrial
-  Private Roads
-  Public School
-  Private School
-  Public Property
-  Churches & Charitable
-  Cemeteries & Graveyards
-  Other Tax Exempt Properties

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

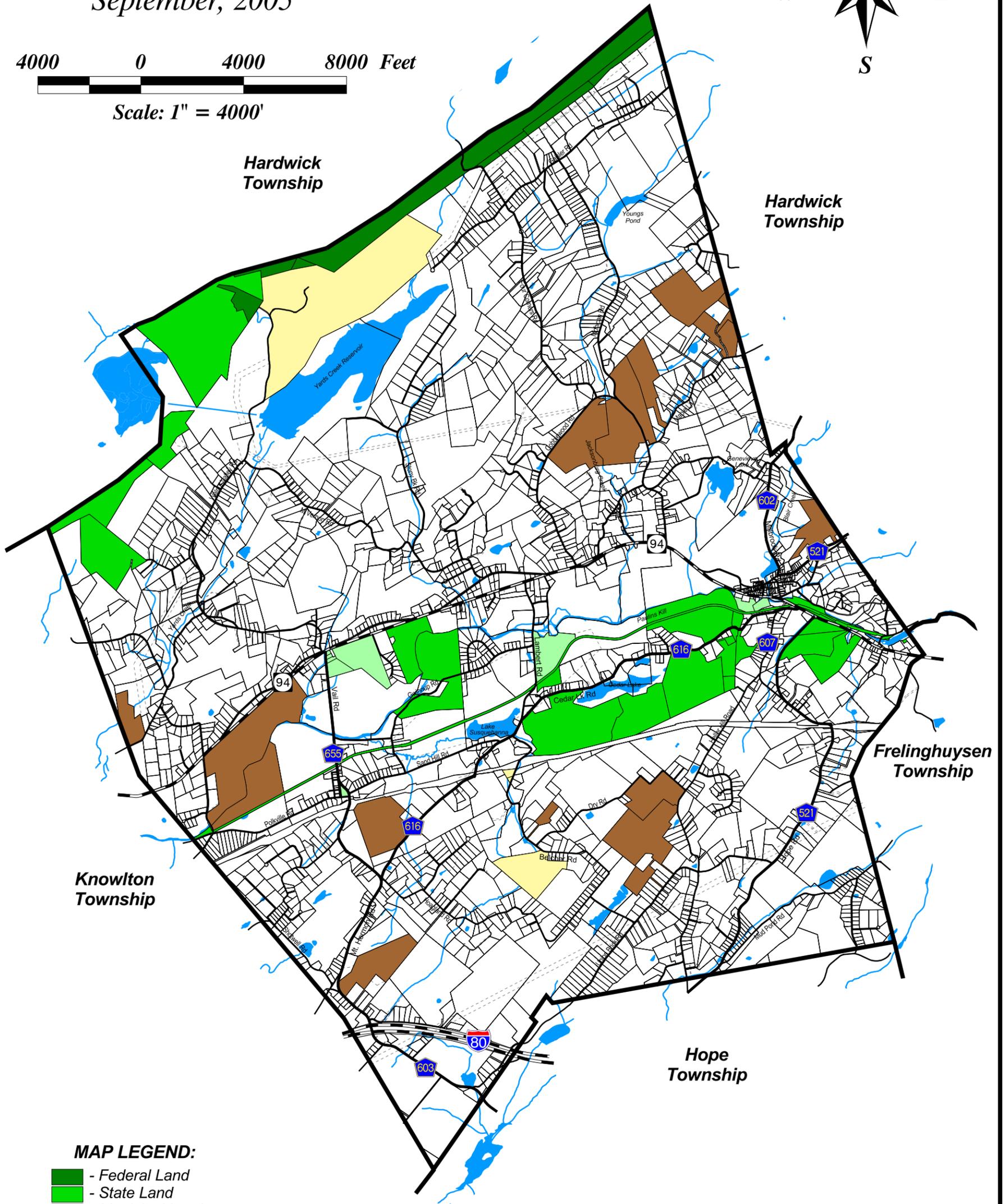
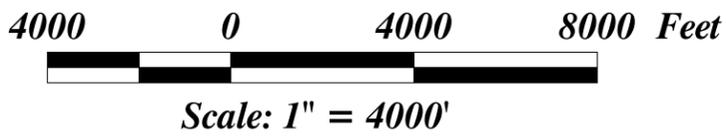
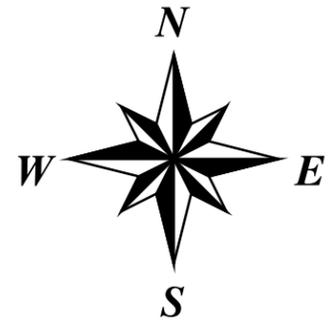
2004 Land Use Classifications based upon 2004 Tax Assessor records.

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# Open Space & Farmland Preservation

Township of Blairstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
White Environmental Services  
Phillipsburg, NJ



### MAP LEGEND:

-  - Federal Land
-  - State Land
-  - Municipal Land
-  - Non-Profit Land
-  - Farmland Preservation

### REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Open Space and Farmland Preservation Sites based upon 2004 Tax Assessor records and information supplied by the Blairstown Open Space Committee.

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# Bedrock Geology

Township of Blirstown

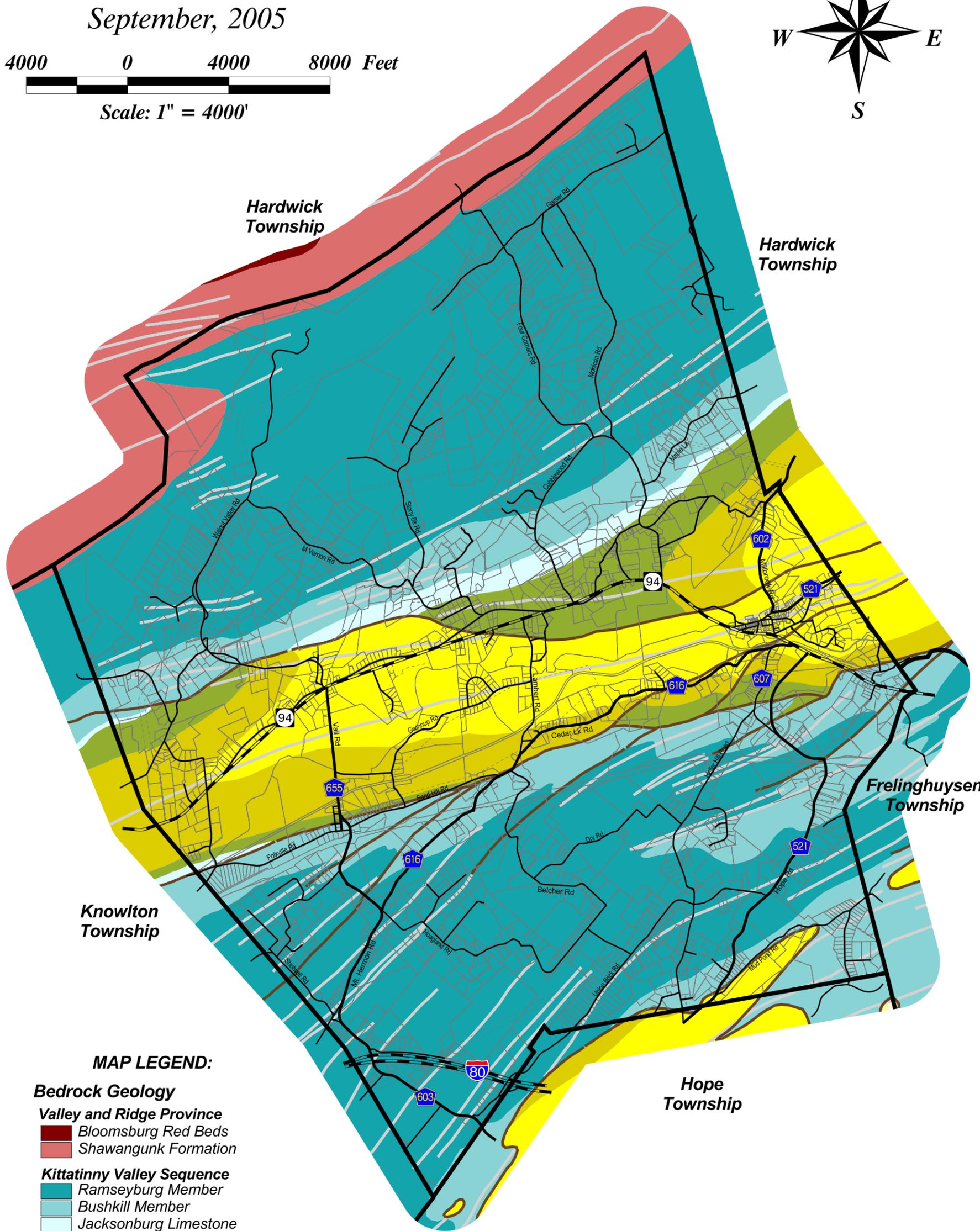
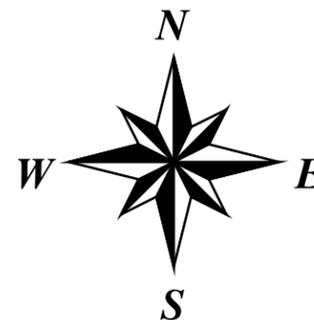
Warren County, NJ

September, 2005

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## MAP LEGEND:

### Bedrock Geology

- Valley and Ridge Province**
- Bloomsburg Red Beds
  - Shawangunk Formation

### Kittatinny Valley Sequence

- Ramseyburg Member
- Bushkill Member
- Jacksonburg Limestone
- Beekmantown Group - Upper Part
- Beekmantown Group - Lower Part
- Allentown Dolomite
- Leithsville Formation
- Hardyston Quartzite

- Bedrock Faults
- Bedrock Folds

### REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Bedrock Geology taken from NJGS GIS database: "Bedrock Geology for New Jersey", 1999.

Bedrock Faults taken from NJGS GIS database: "Bedrock Geology for New Jersey - Folds", 1999.

Bedrock Folds taken from NJGS GIS database: "Bedrock Geology for New Jersey - Faults", 1999.

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# Regulated & Contaminated Sites

Township of Blirstown

Warren County, NJ

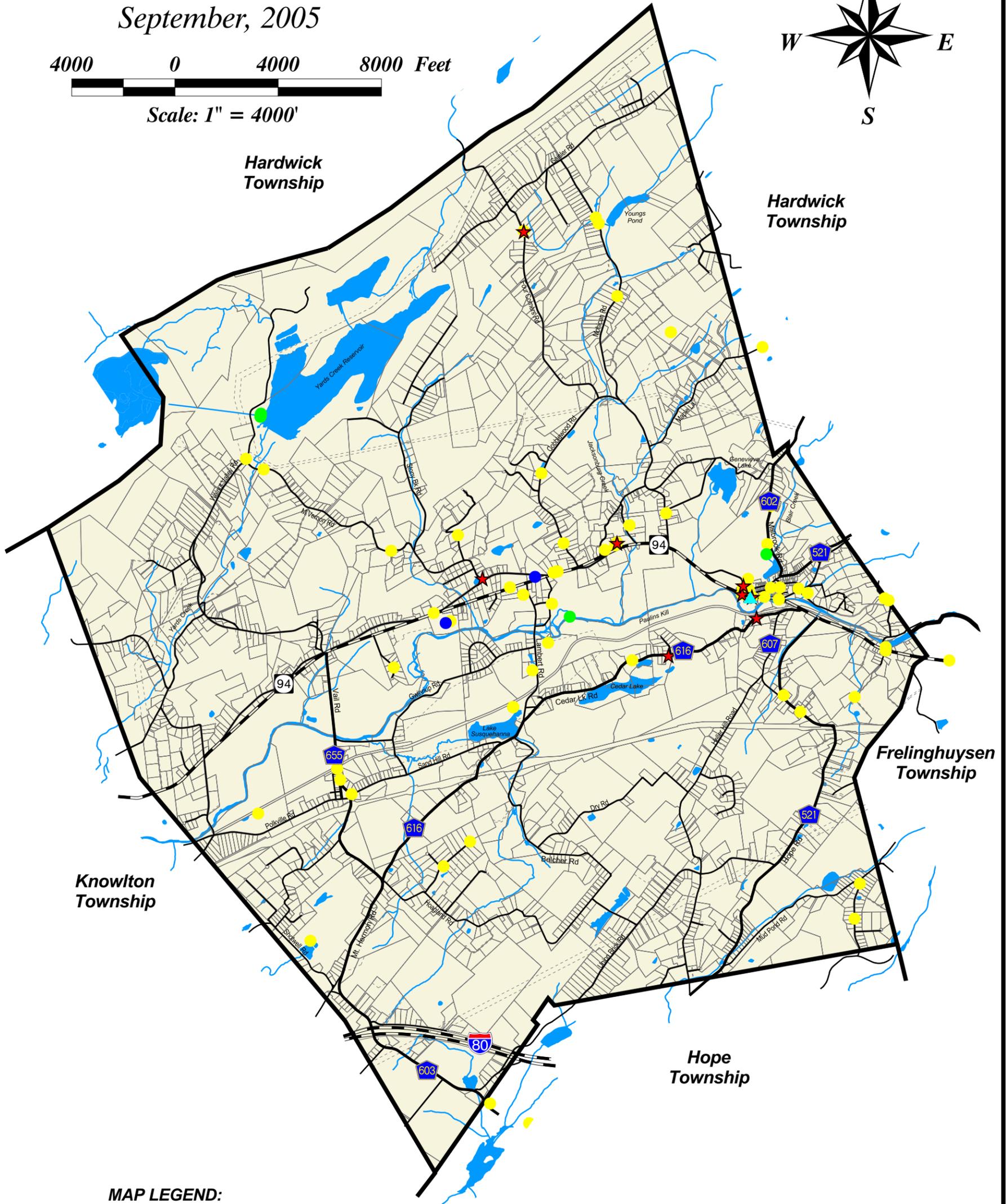
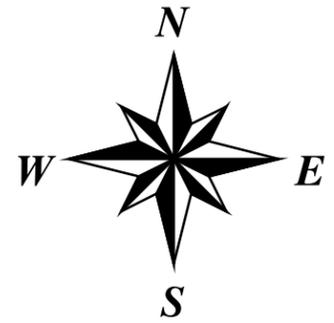
September, 2005

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White Environmental Services  
Phillipsburg, NJ

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## MAP LEGEND:

### Contaminated Sites

- ▲ - Groundwater Contamination Site
- ★ - Other Known Contaminated Sites

### NJDEP Regulated Sites

- - Discharge to Groundwater
- - Discharge to Surface Water
- - Other Regulated Sites

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Known Contaminated Sites based upon NJDEP GIS database, "NJDEP Known Contaminated Site List", 2001.

NJDEP Regulated Sites based upon NJDEP GIS database, "Department Integrated Facility File (DIFF) facility locations of Warren County, New Jersey", 1996.

Discharge to Surface Water based upon NJDEP GIS database, "NJPDES Surface Water Discharges in New Jersey", 2002.

Discharge to Groundwater based upon NJDEP GIS database, "NJPDES Ground Water Discharges in New Jersey", 2002.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

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# Critical Wildlife Habitat

Township of Blirstown

Warren County, NJ

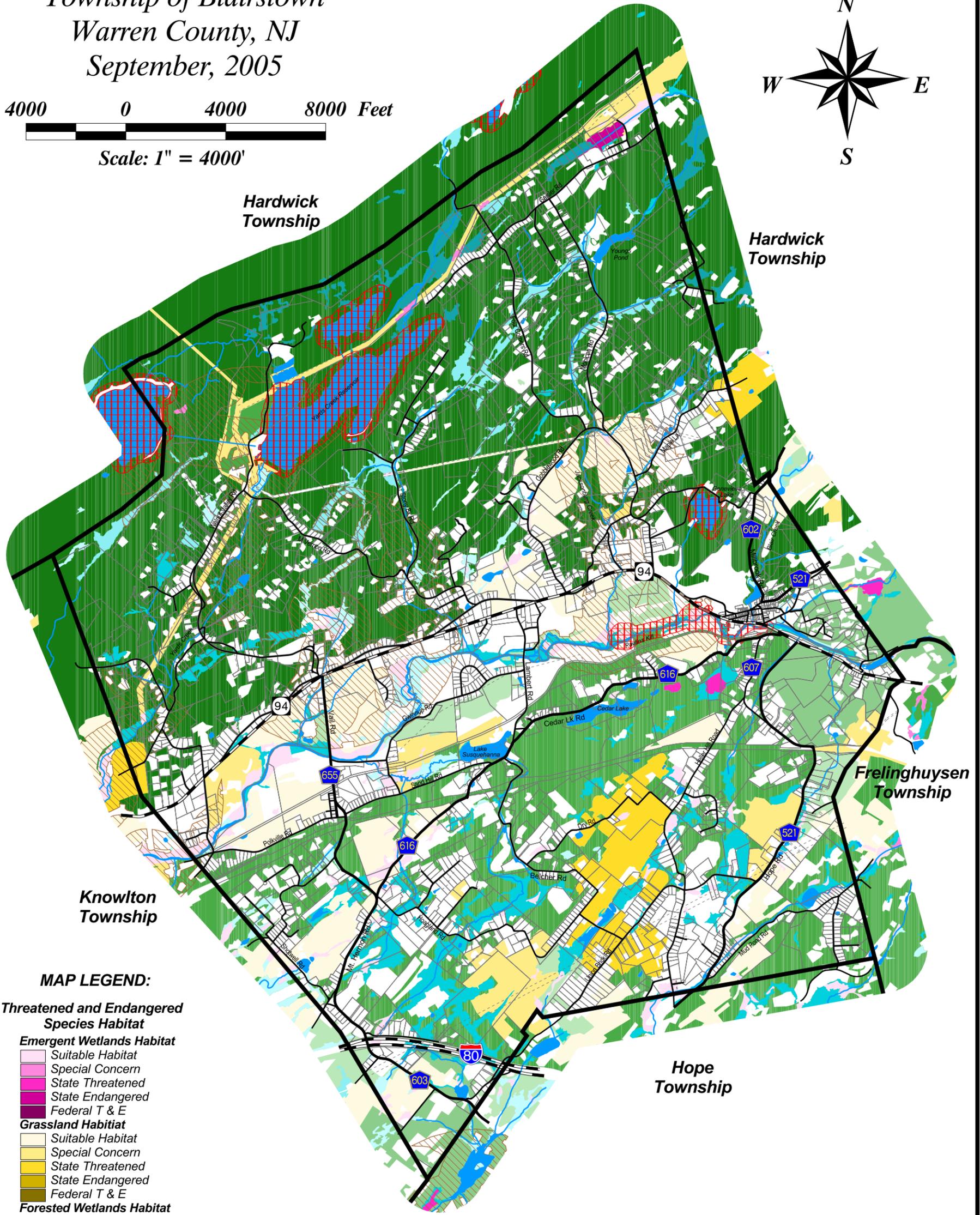
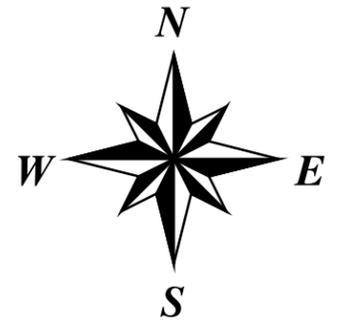
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- MAP LEGEND:**
- Threatened and Endangered Species Habitat**
- Emergent Wetlands Habitat**
- Suitable Habitat
  - Special Concern
  - State Threatened
  - State Endangered
  - Federal T & E
- Grassland Habitat**
- Suitable Habitat
  - Special Concern
  - State Threatened
  - State Endangered
  - Federal T & E
- Forested Wetlands Habitat**
- Suitable Habitat
  - Special Concern
  - State Threatened
  - State Endangered
  - Federal T & E
- Forest Habitat**
- Suitable Habitat
  - Special Concern
  - State Threatened
  - State Endangered
  - Federal T & E
- Bald Eagle Foraging Habitat
- Wood Turtle Habitat

**REFERENCES & NOTES:**

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

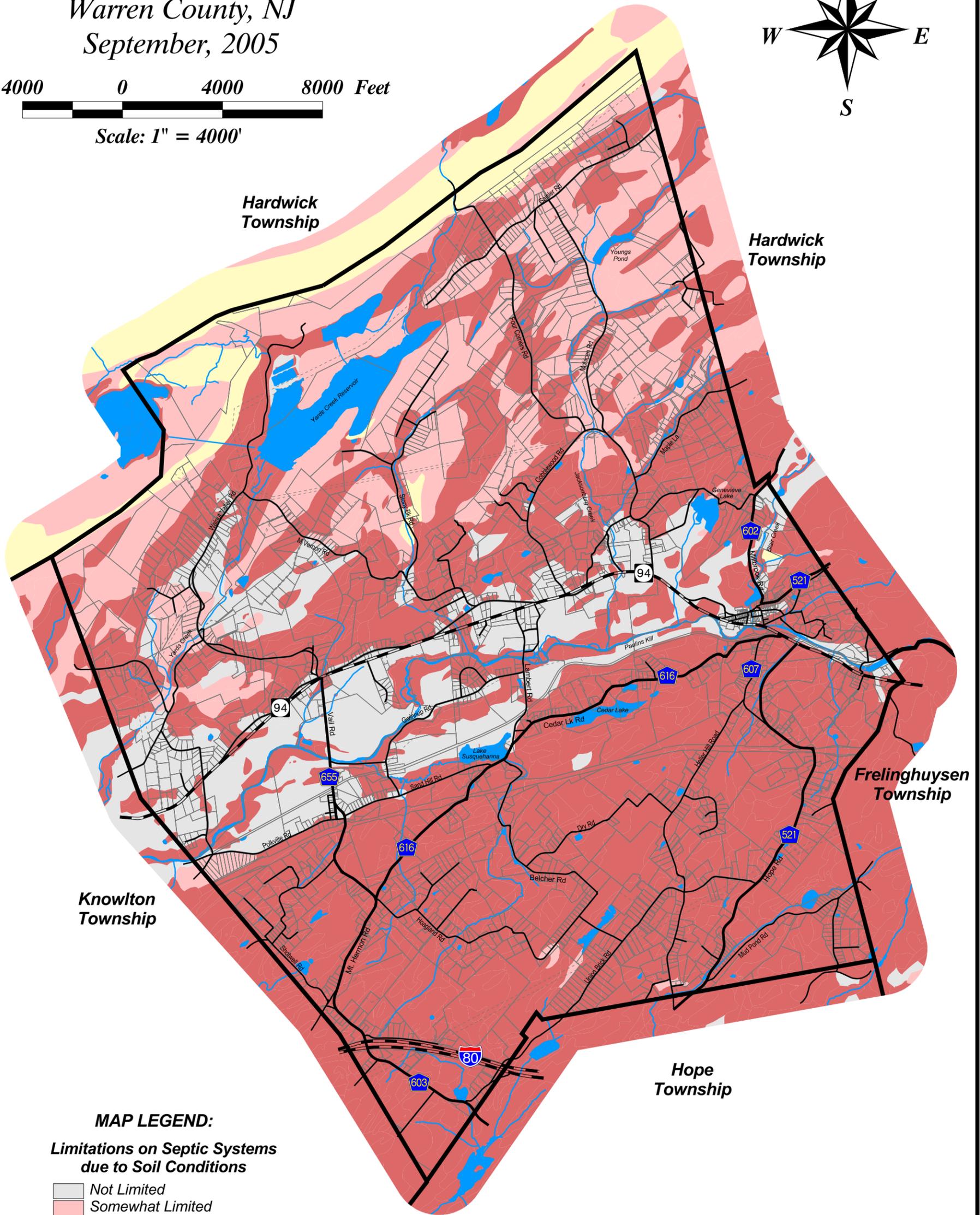
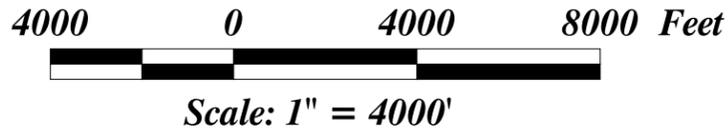
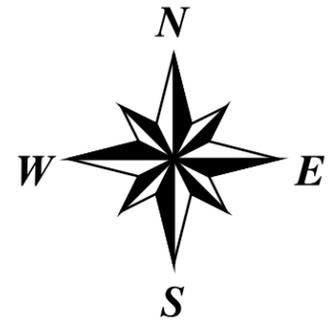
Threatened and Endangered Speceis Habitat taken from NJDEP GIS database, "Landscape Project, Ver. 2", 2004.

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# Septic Limitations due to Soil Conditions

Township of Blirstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
White Environmental Services  
Phillipsburg, NJ



### MAP LEGEND:

#### Limitations on Septic Systems due to Soil Conditions

- Not Limited
- Somewhat Limited
- Very Limited
- Not Rated

### REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Soil boundaries based upon NJDEP GIS database of the Warren County Soils Survey

Septic System Limitations based upon NRCS database, 1/14/05.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

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# Depth to Bedrock

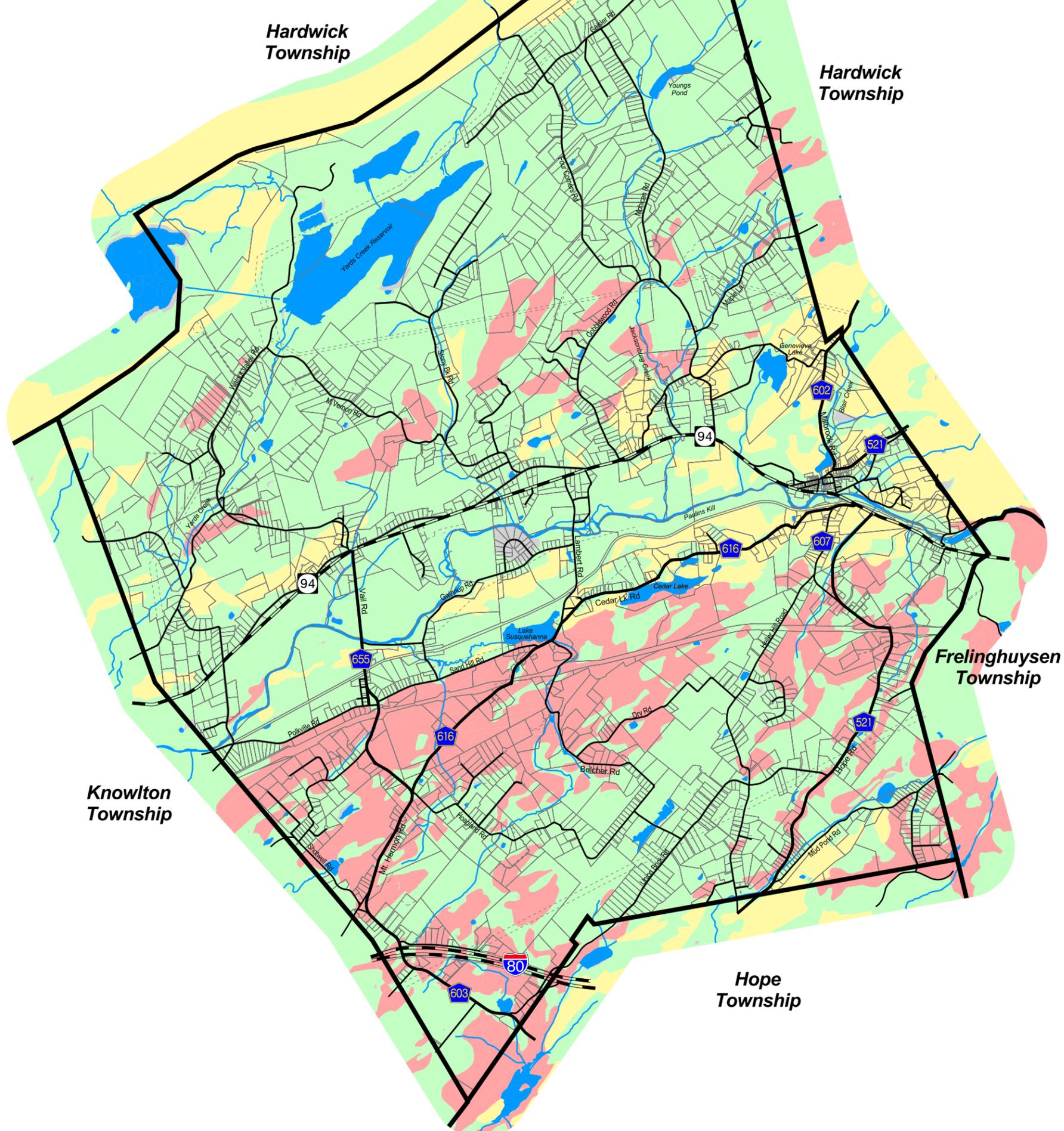
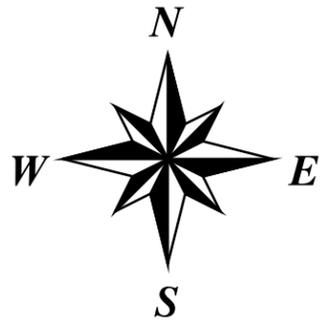
Township of Blirstown  
Warren County, NJ  
September, 2005

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Phillipsburg, NJ

4000 0 4000 8000 Feet



Scale: 1" = 4000'



### MAP LEGEND:

#### Average Depth to Bedrock

- 10 to 20 inches (least suitable for development)
- 20 to 40 inches (moderately suitable for development)
- Greater than 60 inches (most suitable for development)
- Undetermined

#### REFERENCES & NOTES:

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Soil boundaries based upon NJDEP GIS database of the Warren County Soils Survey

Average Depth to Bedrock based upon information from the Warren County Soils Survey.

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Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

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# Depth to Groundwater

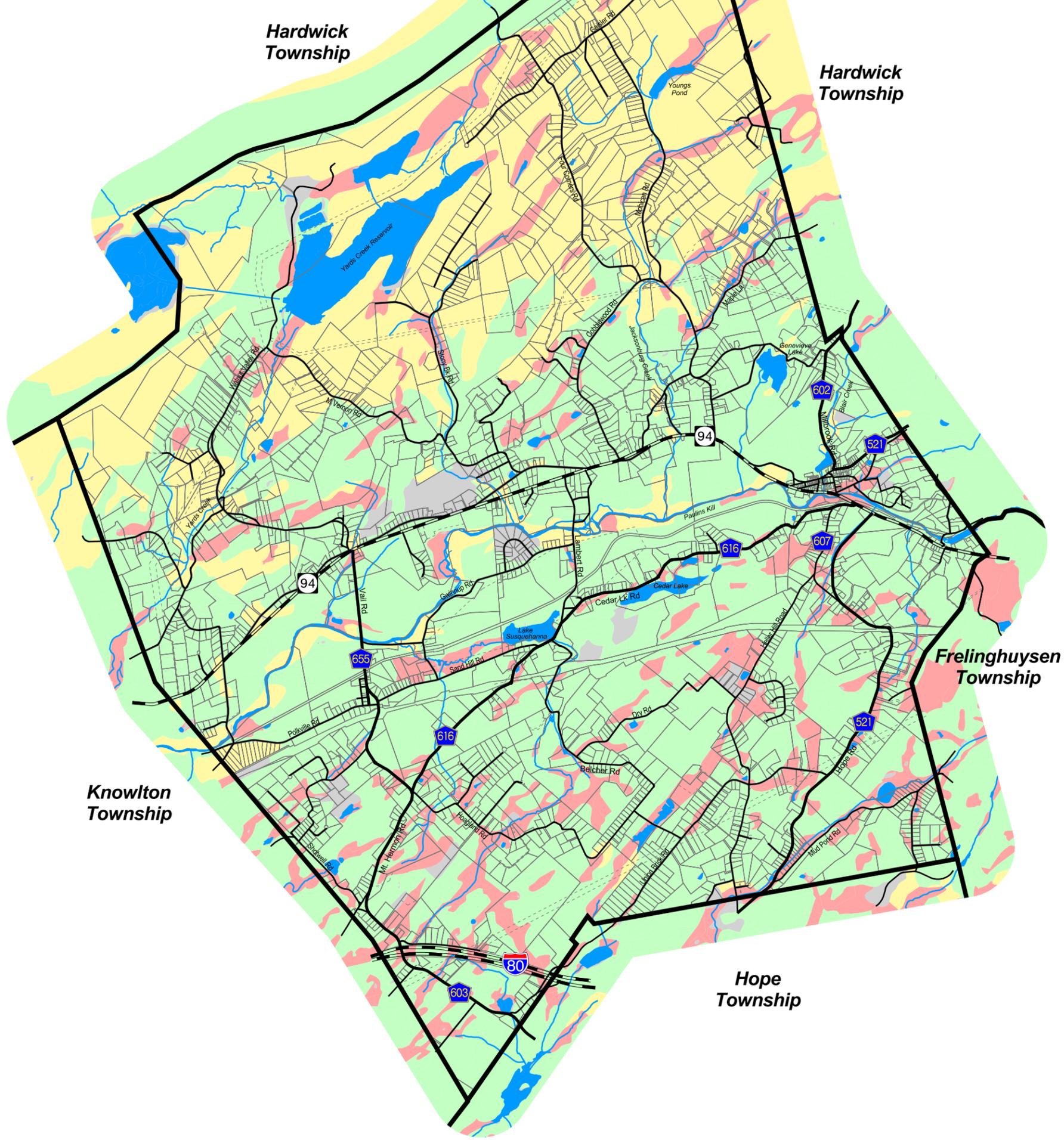
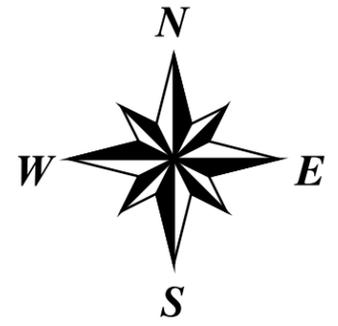
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Warren County, NJ  
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Phillipsburg, NJ

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## MAP LEGEND:

### Average Depth to Groundwater

- Surface to 1.5 ft (least suitable for development)
- 1.5 to 4.0 ft (moderately suitable for development)
- Greater than 6 ft (most suitable for development)
- Undetermined

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Soil boundaries based upon NJDEP GIS database of the Warren County Soils Survey

Average Depth to Groundwater based upon information from the Warren County Soils Survey.

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Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

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# Hydric Soils

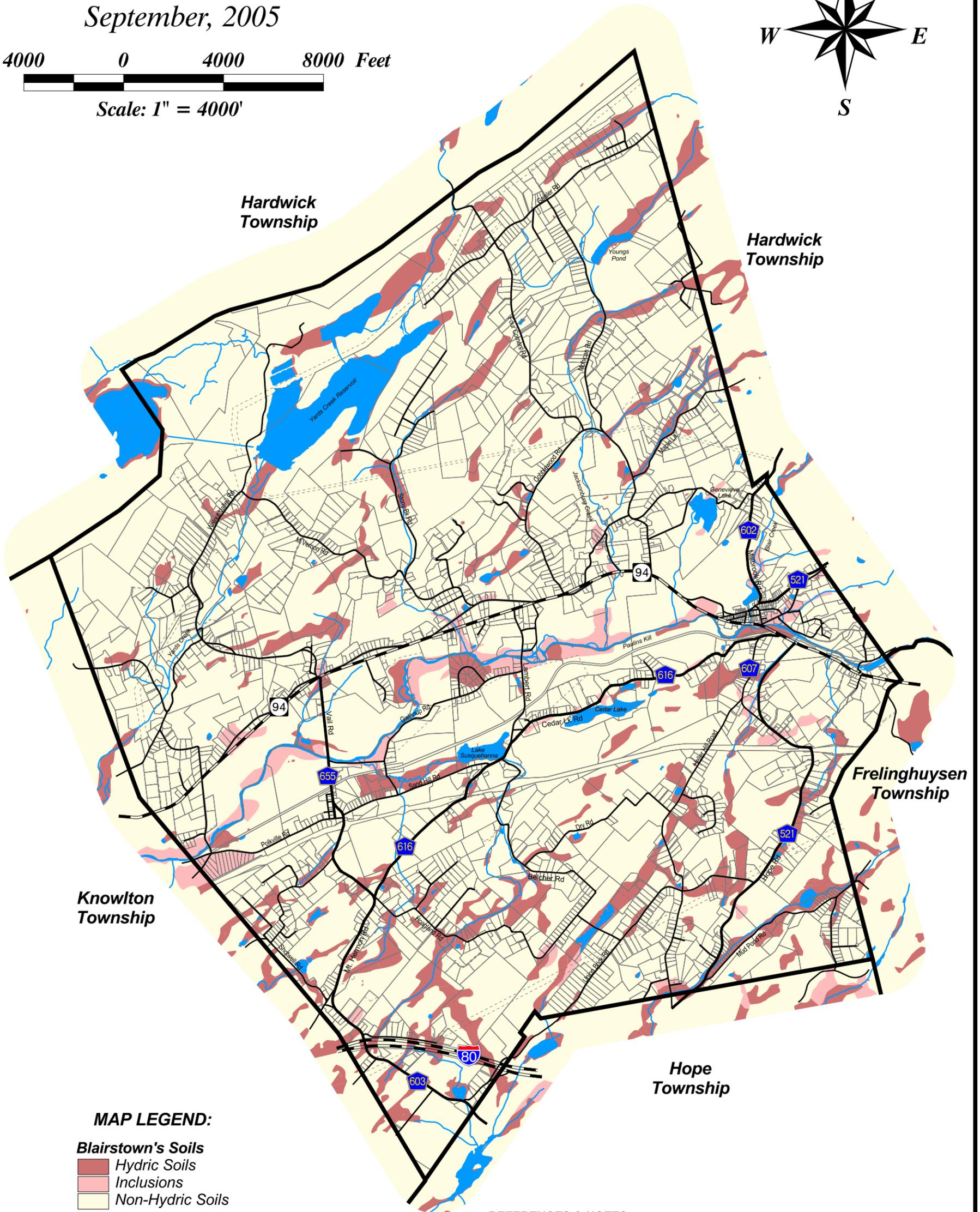
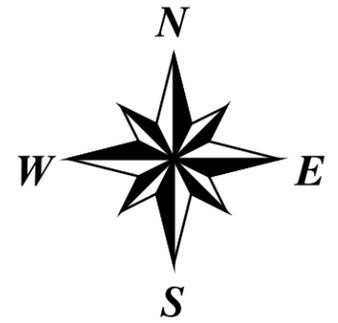
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**MAP LEGEND:**  
**Blairstown's Soils**  
Hydric Soils  
Inclusions  
Non-Hydric Soils

### REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Soil boundaries based upon NJDEP GIS database of the Warren County Soils Survey

Hydric soils classification based upon NRCS publication, "Warren County, New Jersey, Comprehensive Hydric Soils List", 6/8/98.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

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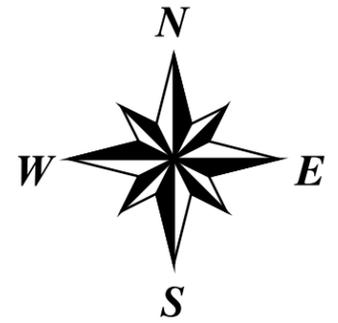
# 1995 Land Use / Land Cover

Township of Blirstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
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Phillipsburg, NJ



Scale: 1" = 4000'



## MAP LEGEND:

### 1995 Land Use / Land Cover

- Developed
- Agriculture
- Barren Land
- Forest
- Wetlands
- Water

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Land Use / Land Cover data taken from NJDEP GIS database: "NJDEP 1995/97 Land Use / Land Cover Update, Upper Delaware Watershed Management Area WMA-1", 2000.

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# Stream Classifications & Natural Heritage Sites

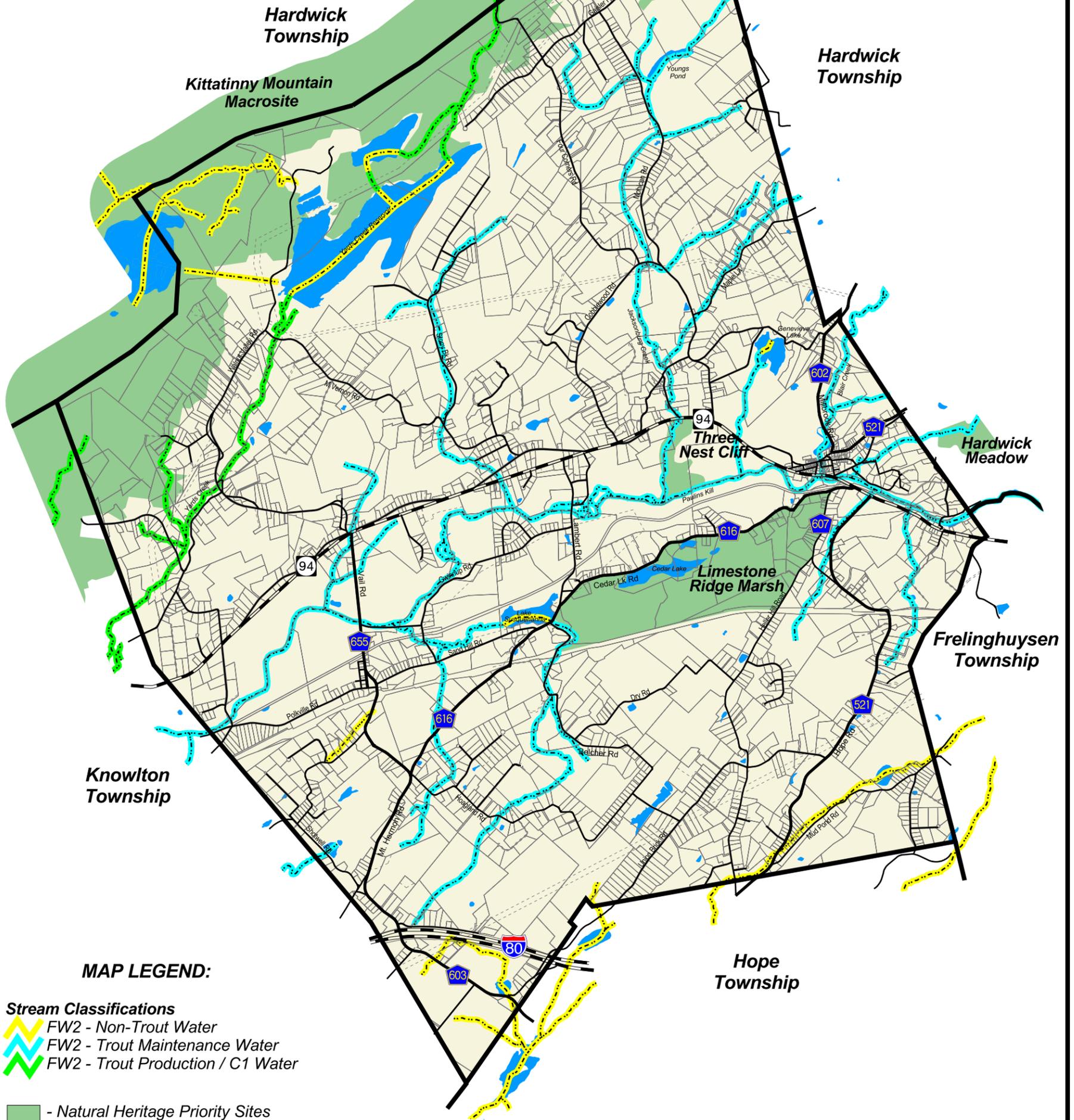
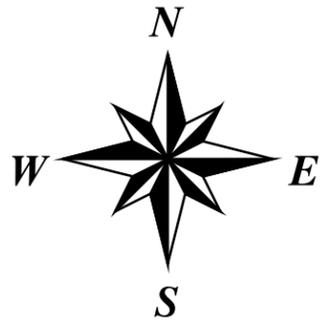
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Warren County, NJ  
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## MAP LEGEND:

### Stream Classifications

- FW2 - Non-Trout Water
- FW2 - Trout Maintenance Water
- FW2 - Trout Production / C1 Water

- Natural Heritage Priority Sites

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- Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.
- Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.
- Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.
- Natural Heritage Sites taken from NJDEP GIS database, "NJDEP Natural Heritage Priority Sites", 2001.
- Flood Hazard Areas taken from NJDEP GIS database, "Flood-prone Documentation" taken Directly from USGS Flood-prone Maps.
- Wetlands taken from NJDEP GIS database, "Wetlands of Warren County, New Jersey", 1986

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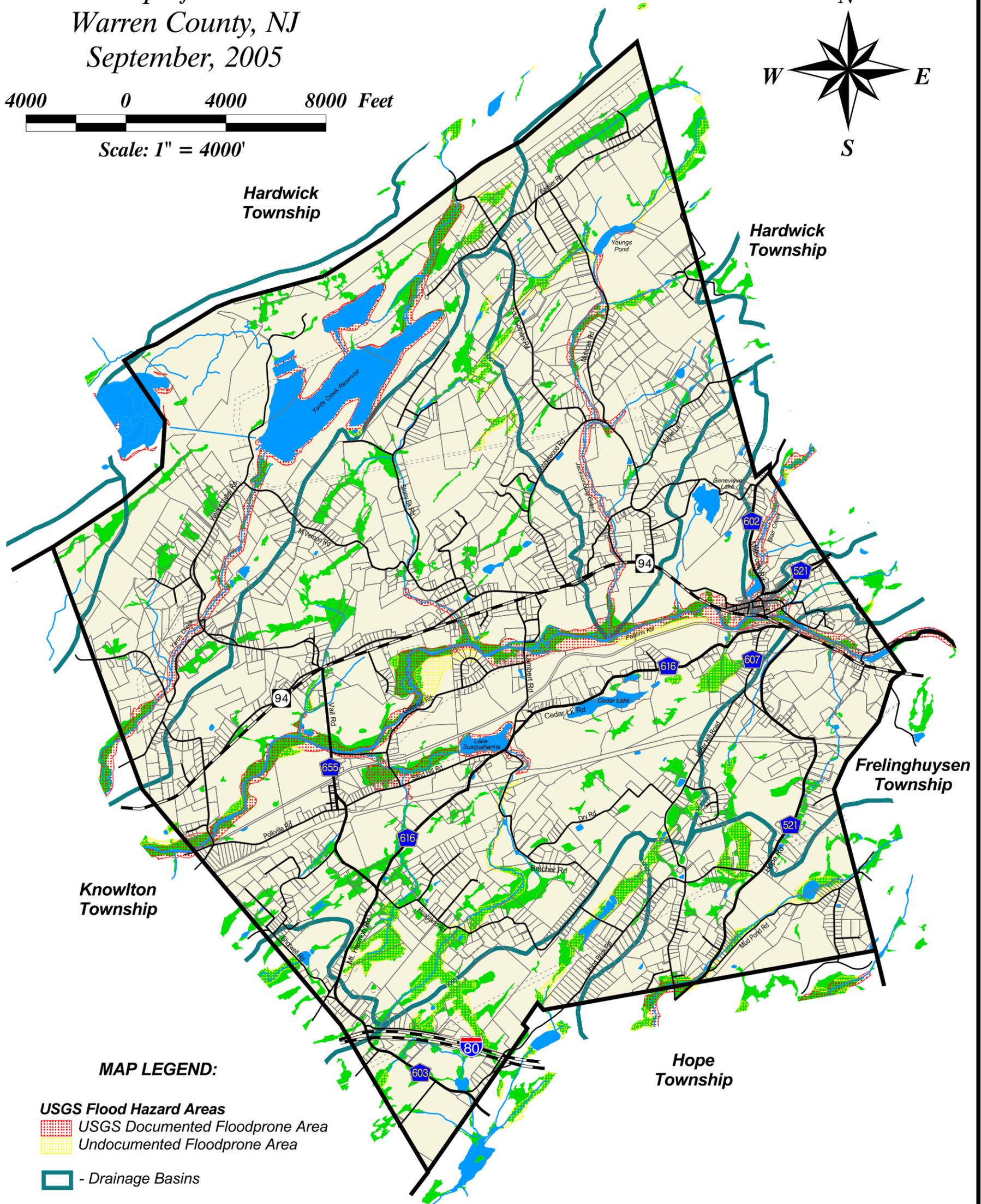
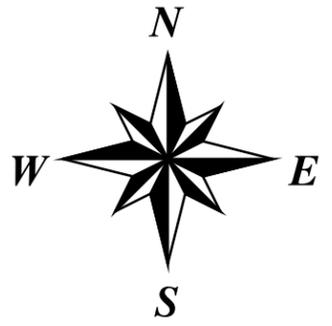
# Surface Hydrology

Township of Blirstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
White Environmental Services  
Phillipsburg, NJ



Scale: 1" = 4000'



### MAP LEGEND:

#### USGS Flood Hazard Areas

- USGS Documented Floodprone Area
- Undocumented Floodprone Area

- Drainage Basins

- Wetlands

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- Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.
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- Drainage Basins taken from NJDEP GIS database, "NJDEP 14 Digit Hydrologic Unit Code delineations for New Jersey", 2000.
- Flood Hazard Areas taken from NJDEP GIS database, "Flood-prone Documentation" taken Directly from USGS Flood-prone Maps.
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# Elevation Model

## Township of Blirstown

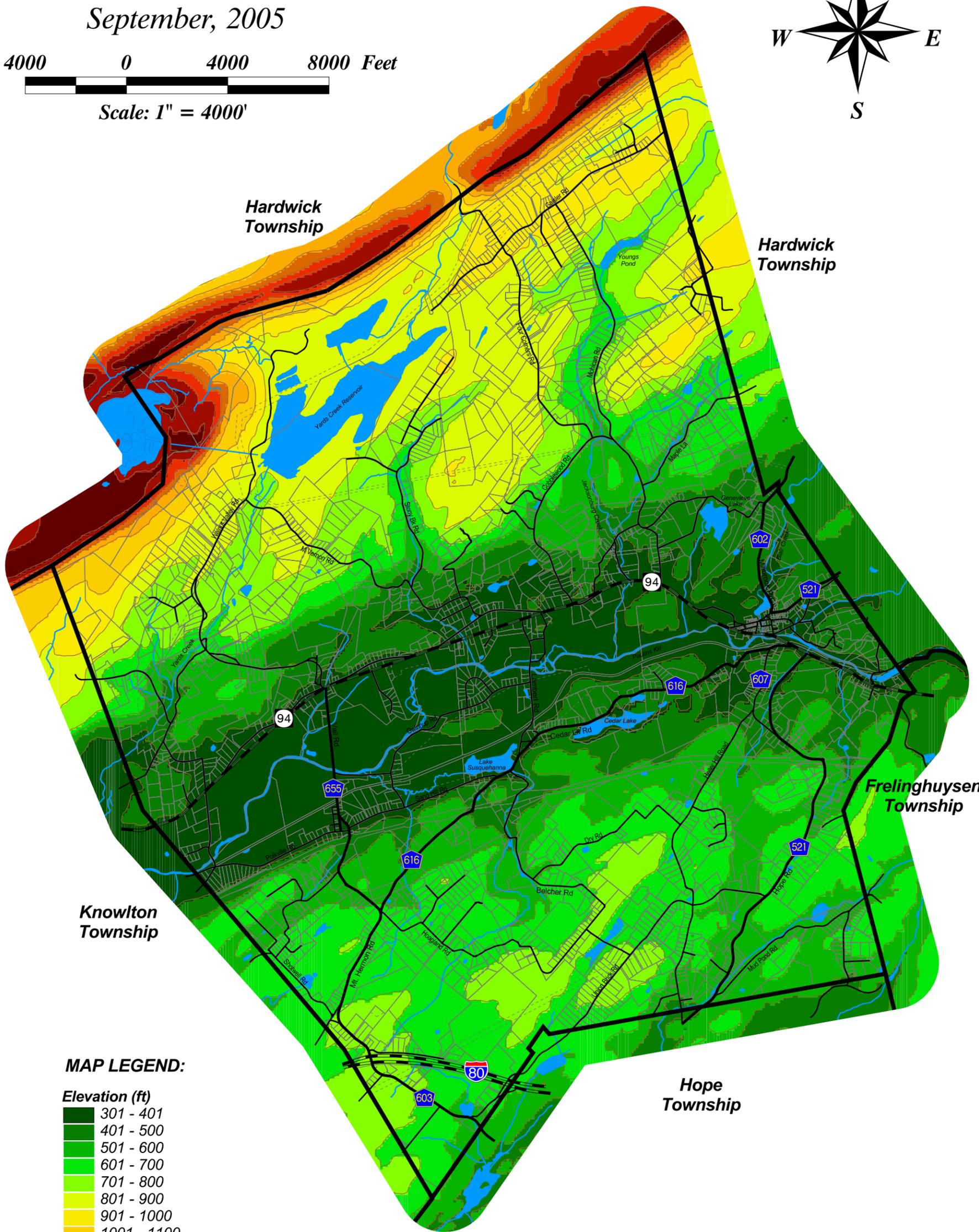
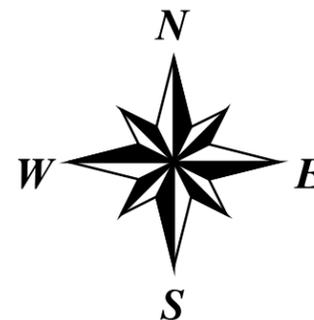
### Warren County, NJ

September, 2005

4000 0 4000 8000 Feet



Scale: 1" = 4000'



#### MAP LEGEND:

Elevation (ft)	
	301 - 401
	401 - 500
	501 - 600
	601 - 700
	701 - 800
	801 - 900
	901 - 1000
	1001 - 1100
	1101 - 1200
	1201 - 1300
	1301 - 1400
	1401 - 1500
	1501 - 1600

#### REFERENCES & NOTES:

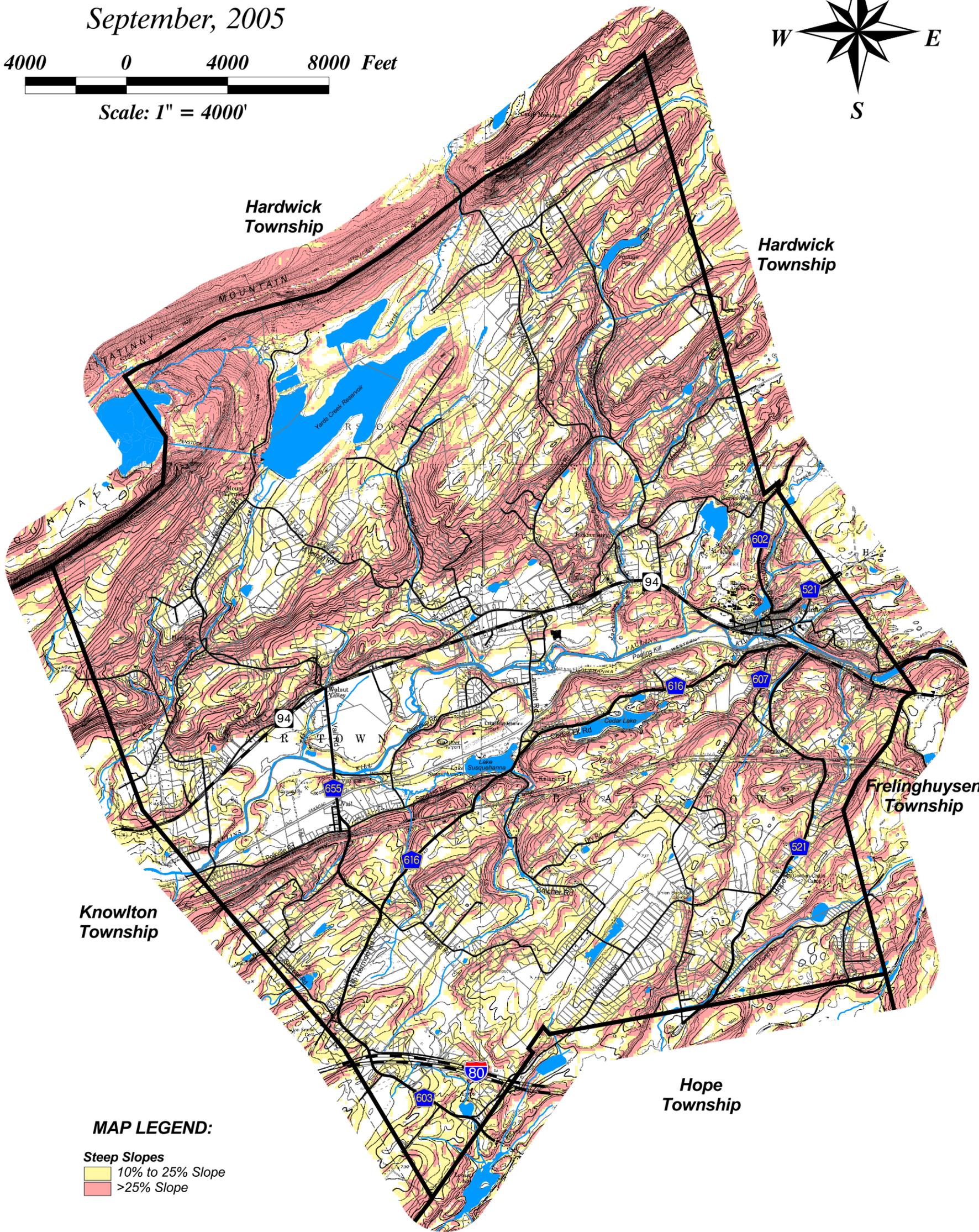
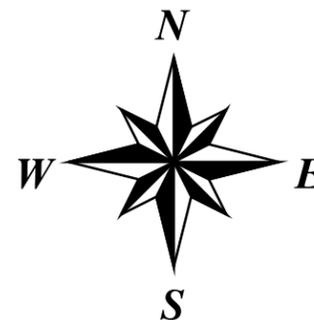
- Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.
- Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.
- Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.
- Digital Elevation information taken from GIS database for the Warren County Environmental Resources Inventory, 2000.
- This map was developed using NJDEP and NJGS Geographic Information System digital data, but this secondary product has not been verified by the NJDEP or NJGS and is not State - authorized.

# Steep Slopes

Township of Blirstown  
Warren County, NJ  
September, 2005

4000 0 4000 8000 Feet

Scale: 1" = 4000'



**MAP LEGEND:**

- Steep Slopes**
- 10% to 25% Slope
  - >25% Slope

**REFERENCES & NOTES:**

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Topography based upon USGS Quadrangle Maps

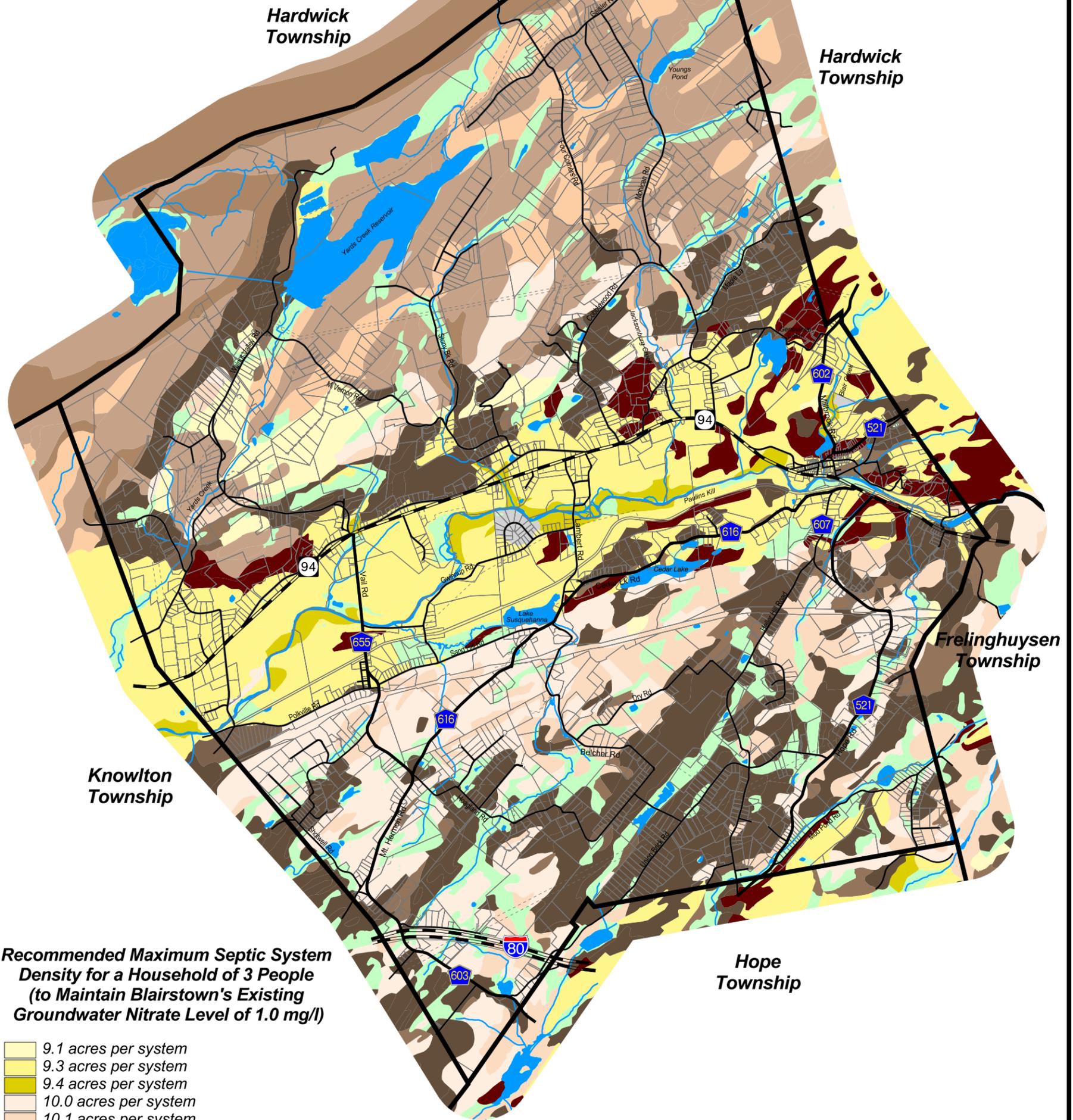
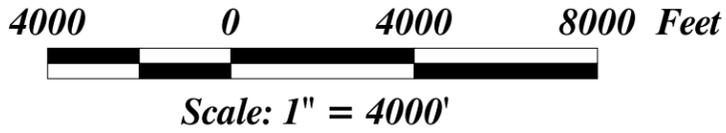
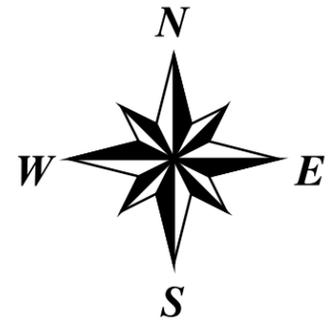
Slope delineations based upon Warren County ERI database taken from NJDEP Digital Elevation Models.

This map was developed using NJDEP and NJGS Geographic Information System digital data, but this secondary product has not been verified by the NJDEP or NJGS and is not State - authorized.

# Recommended Maximum Septic System Density

Township of Blirstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
White Environmental Services  
Phillipsburg, NJ



**Recommended Maximum Septic System Density for a Household of 3 People (to Maintain Blirstown's Existing Groundwater Nitrate Level of 1.0 mg/l)**

- 9.1 acres per system
- 9.3 acres per system
- 9.4 acres per system
- 10.0 acres per system
- 10.1 acres per system
- 10.2 acres per system
- 10.3 acres per system
- 10.4 acres per system
- 10.5 acres per system
- 10.6 acres per system
- 10.7 acres per system
- 11.1 acres per system
- Hydric Soils - No Systems Recommended
- Disturbed Areas - Variable

**REFERENCES & NOTES:**

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Soil boundaries based upon NJDEP GIS database of the Warren County Soils Survey

Recommended Septic System Densities based upon NJGS Nitrate-Dilution Model for New Jersey, version 5.0.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

This map was developed using NJDEP and NJGS Geographic Information System digital data, but this secondary product has not been verified by the NJDEP or NJGS and is not State - authorized.

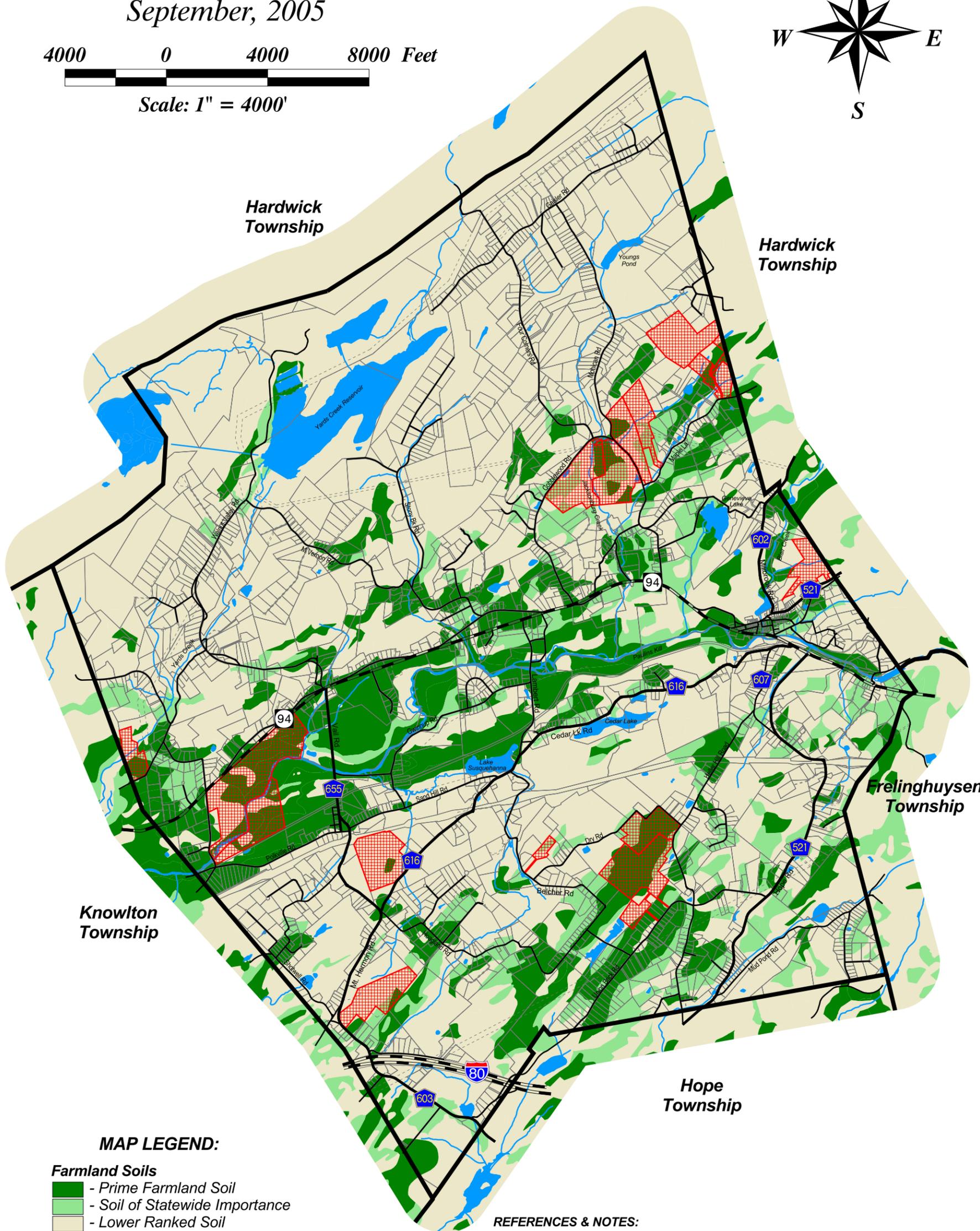
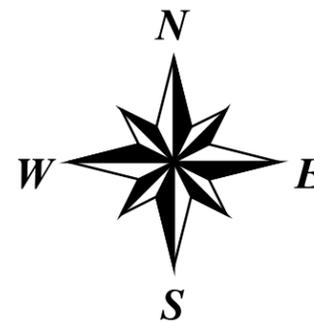
# Farmland Soils & Preserved Farms

Township of Blairstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
White Environmental Services  
Phillipsburg, NJ

4000 0 4000 8000 Feet

Scale: 1" = 4000'



## MAP LEGEND:

### Farmland Soils

- Prime Farmland Soil
- Soil of Statewide Importance
- Lower Ranked Soil
- Preserved Farmland

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

Soil Series taken from NJDEP GIS database, of Warren County Soil Survey.

Farmland Soil Classifications per NRCS, 1990.

Preserved Farms based upon GIS data provided by New Jersey State Agriculture Development Committee (SADC), 2001.

This map was developed using NJDEP and NJGS Geographic Information System digital data, but this secondary product has not been verified by the NJDEP or NJGS and is not State - authorized.

# Soils Survey

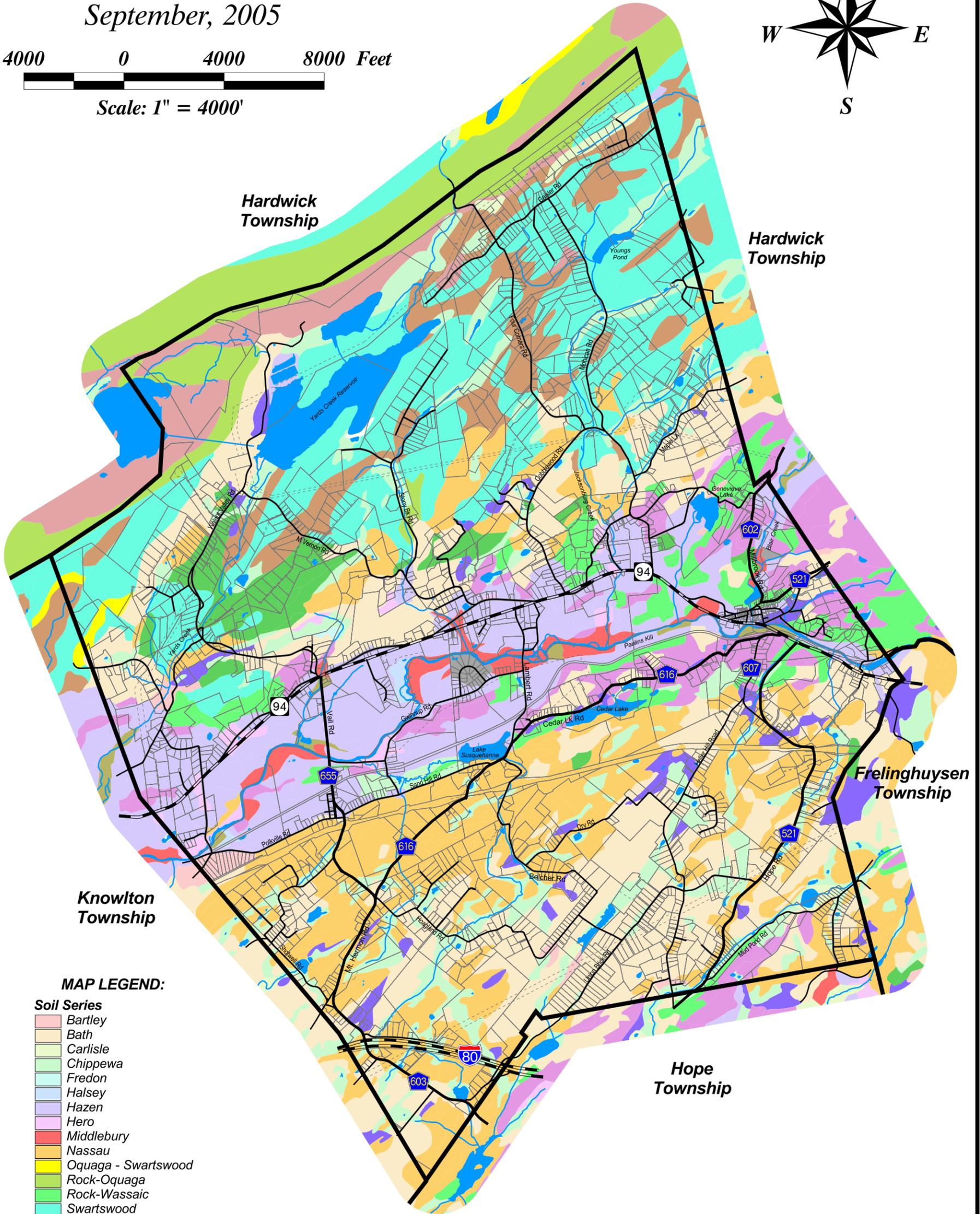
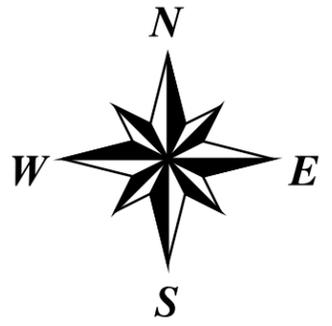
Township of Blirstown  
Warren County, NJ  
September, 2005

Mapping prepared by:  
White Environmental Services  
Phillipsburg, NJ

4000 0 4000 8000 Feet



Scale: 1" = 4000'



## MAP LEGEND:

- Soil Series**
- Bartley
  - Bath
  - Carlisle
  - Chippewa
  - Fredon
  - Halsey
  - Hazen
  - Hero
  - Middlebury
  - Nassau
  - Oquaga - Swartswood
  - Rock-Oquaga
  - Rock-Wassaic
  - Swartswood
  - Swartswood - Oquaga
  - Venango
  - Washington
  - Wassaic
  - Wayland
  - Wurtsboro
  - Pits
  - Quarry
  - Water
  - UNKNOWN

## REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blirstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Soil boundaries based upon NJDEP GIS database of the Warren County Soils Survey

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

This map was developed using NJDEP and NJGS Geographic Information System digital data, but this secondary product has not been verified by the NJDEP or NJGS and is not State - authorized.

# Zoning Map

## Township of Blairstown

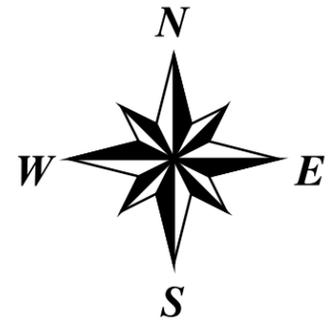
### Warren County, NJ

#### September, 2005

4000 0 4000 8000 Feet



Scale: 1" = 4000'



Hardwick Township

Hardwick Township

Frelinghuysen Township

Knowlton Township

Hope Township

#### MAP LEGEND:

##### Zoning Districts

-  Single-Family Residential
-  Village Residential
-  Village Neighborhood
-  Professional & Research Office
-  Highway Commercial
-  General Commercial & Industrial
-  Senior Citizen Housing
-  Airport Hazard Area

#### REFERENCES & NOTES:

Property Lines and Municipal Boundaries taken from Blairstown Township Tax Maps, and adjusted accordingly by White Environmental Services, 2005.

Streams taken from NJDEP GIS database, "NJDEP Surface Water Quality Standards of New Jersey", 6/05.

Lakes taken from NJDEP GIS database, "NJDEP Open Water Areas of Warren County, New Jersey", 1986.

Zoning Districts based upon "Zoning Map, Blairstown Township, Warren County, New Jersey" by Coppola & Coppola Associates, 2/15/05.

This map was developed using NJDEP and NJGS Geographic Information System digital data, but this secondary product has not been verified by the NJDEP or NJGS and is not State - authorized.