

- Clinton Twp
- Interstate
- County
- US/State
- Local
- Rail Roads
- Lakes
- Streams
- Parcels
- Highlands Planning Area
- Highlands Preservation Area

Clinton Township Natural Resources Inventory Highlands Boundary



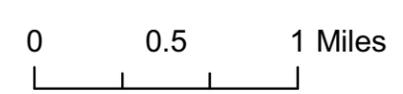
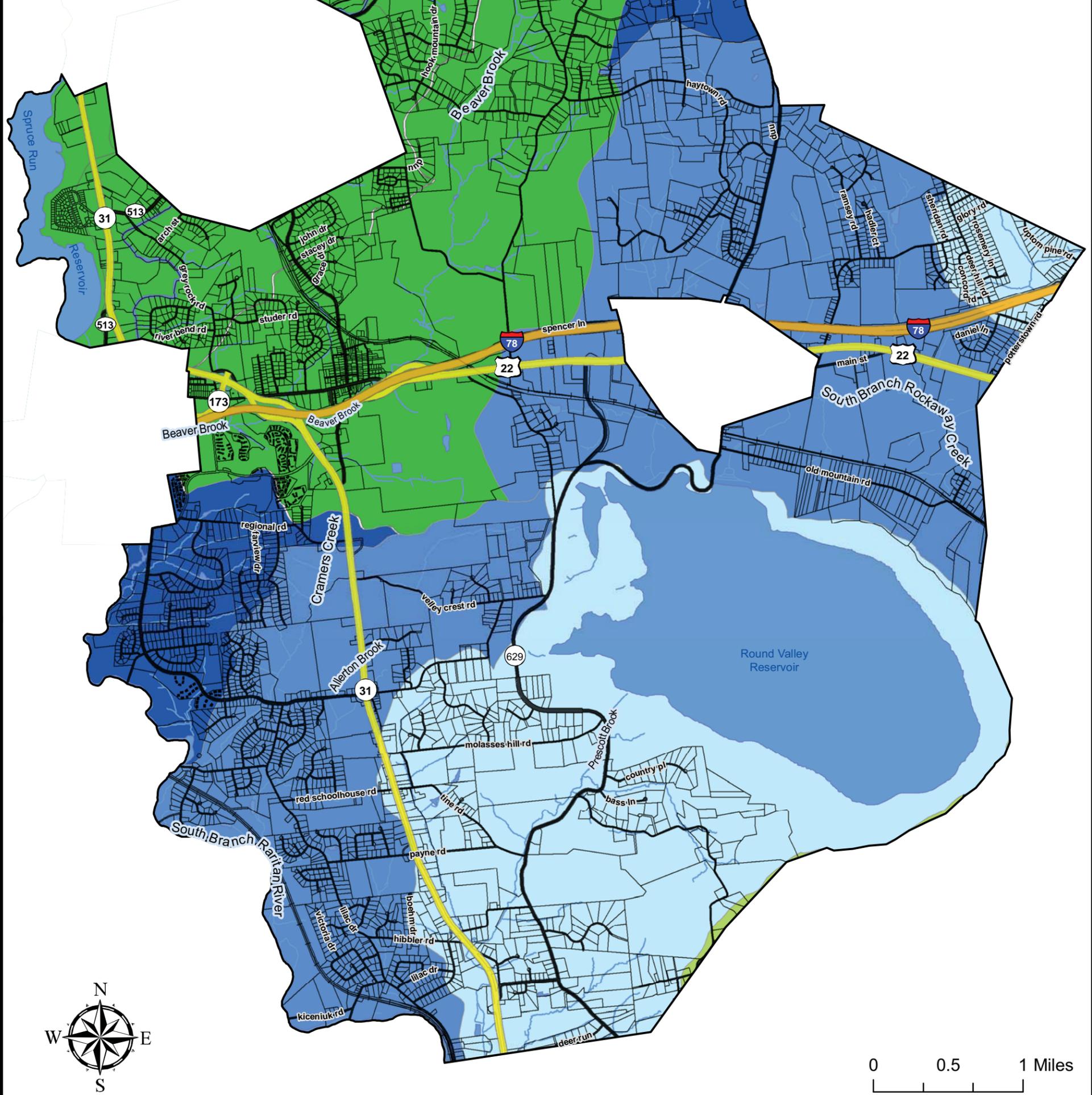
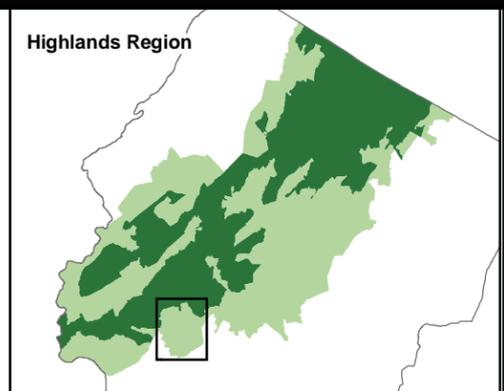
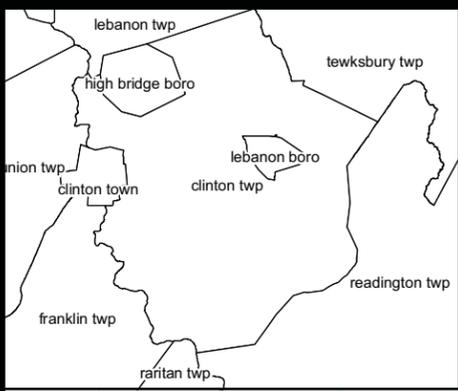
Highlands
Planning Area
Total
97%

Highlands
Preservation
Area Total
3%

Upper Raritan Watershed Association
GIS Department
11-20-2007
Scale: 1:44,000

Source:
Highlands Boundary, Streams - Highlands Council
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Net Water Availability (Unconditional) by HUC14		Clinton Twp	
Million Gallons Per Day (MGD)			Interstate
	0.00-0.05		County
	0.05-0.10		US/State
	0.10-0.39		Local
Net Water Availability (Conditional) by HUC14			Rail Roads
Million Gallons Per Day (MGD)			Parcels
	0.00-0.01		Lakes
	0.01-0.05		Streams

Clinton Township
Natural Resources Inventory
Land Use Capability
Water Availability Map
 (Map 2 of 5)

The Highlands Council determined the net water availability for each subwatershed in the Highlands Region. The net water availability analysis was performed at a HUC14 subwatershed level to determine three important components:

1. the sustainability of water resources (ground water capacity);
2. the water that is "available" for human use (ground water availability); and
3. the remaining water after current consumptive and depletive uses are deducted (net water availability).

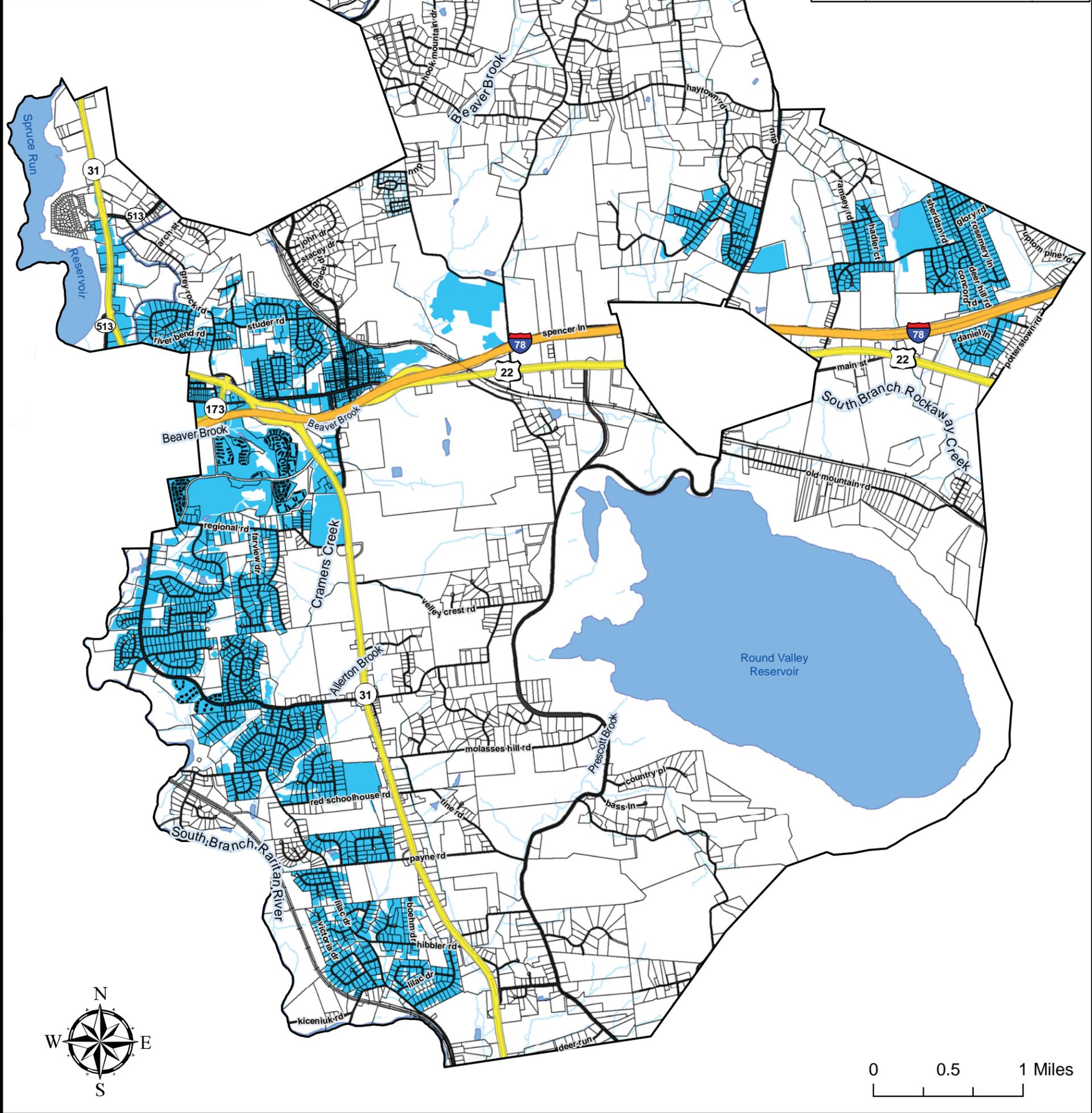
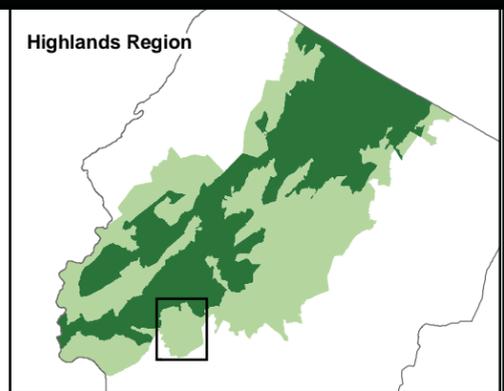
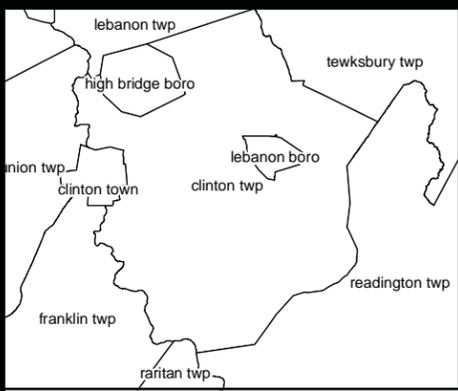
Calculations used for net water availability - Highlands technical report Calculation of Net Water Availability (pg. 28)



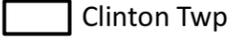
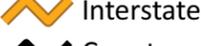

Upper Raritan Watershed Association
 GIS Department
 1-7-2008
 Scale: 1:44,000

Source:
 Highlands LUCM - 12/2007 Highlands Council
 Streams - Highlands Council
 Parcels - (2004) Hunterdon County
 Roads, Rails Roads, Lakes
 and Municipal Boundary - Downloads
 from Hunterdon County 1/2/2007

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Highlands Public Community Water Systems
Available Capacity in Million Gallons Per Month (MGM)

	> 25 MGM		Clinton Twp
	5 - 25 MGM		Interstate
	0.01 - 5 MGM		County
	No Capacity		US/State
			Local
			Rail Roads
			Parcels
			Lakes
			Streams

Clinton Township

Natural Resources Inventory
Land Use Capability
Public Community Water Systems Map
(Map 3 of 5)

This Map provides an overview of the areas of the Highlands Region that are currently served by the public community water systems and their estimated net capacity. Demands were not apportioned between Highlands and non-Highlands Region, because accurate service areas were not available for the non-Highlands portions.

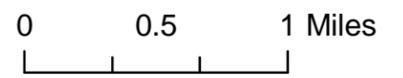
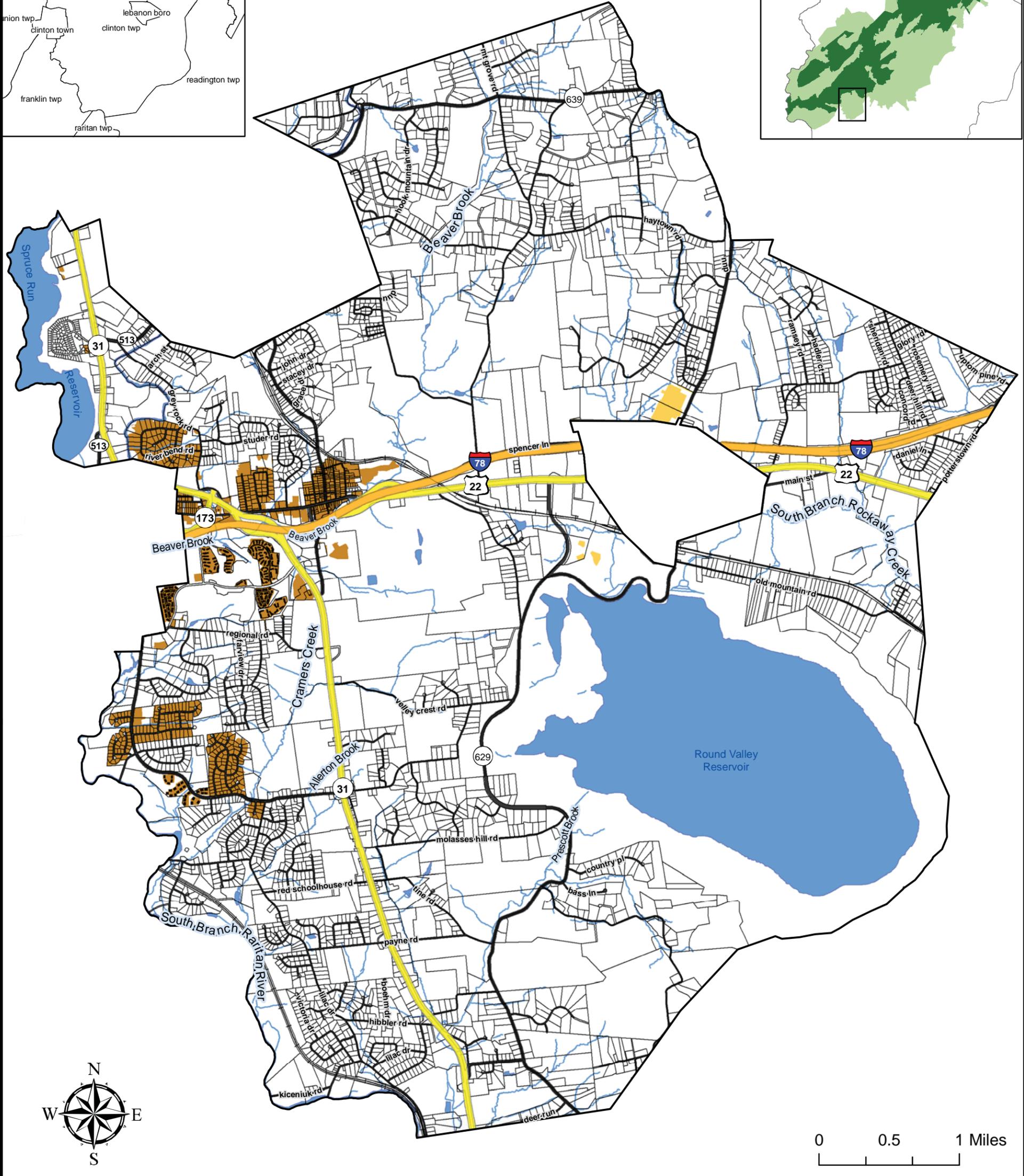
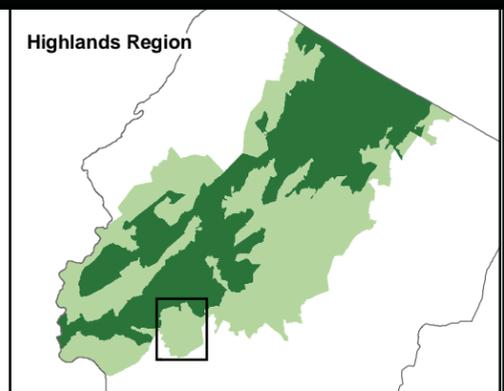
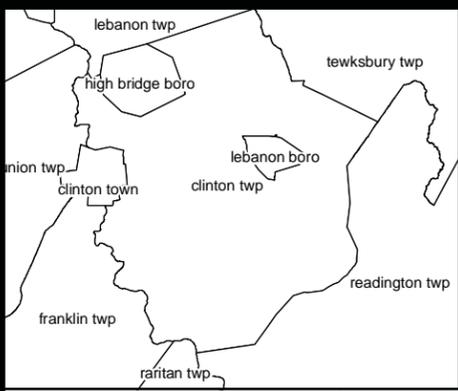
Highlands Regional Master Plan - Part 3. The Highlands Water Protection and Planning Act



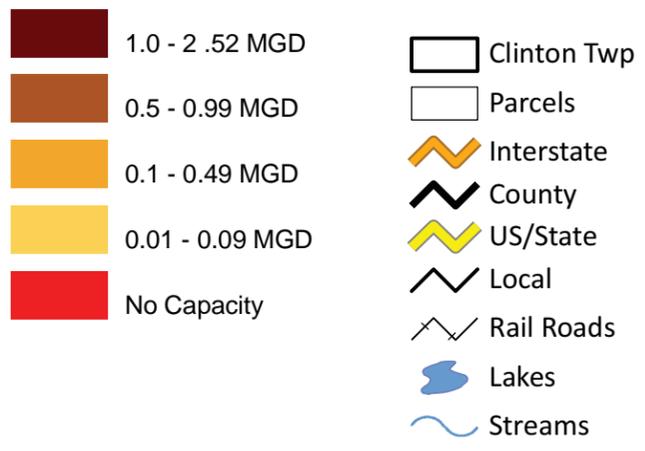

Upper Raritan Watershed Association
GIS Department
1-7-2008
Scale: 1:44,000

Source:
Highlands LUCM - 12/2007 Highlands Council
Streams - Highlands Council
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Highlands Domestic Sewerage Facilities
Current Available Highlands Wastewater Capacity
in Million Gallons Per Day (MGD)



Clinton Township

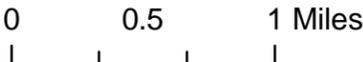
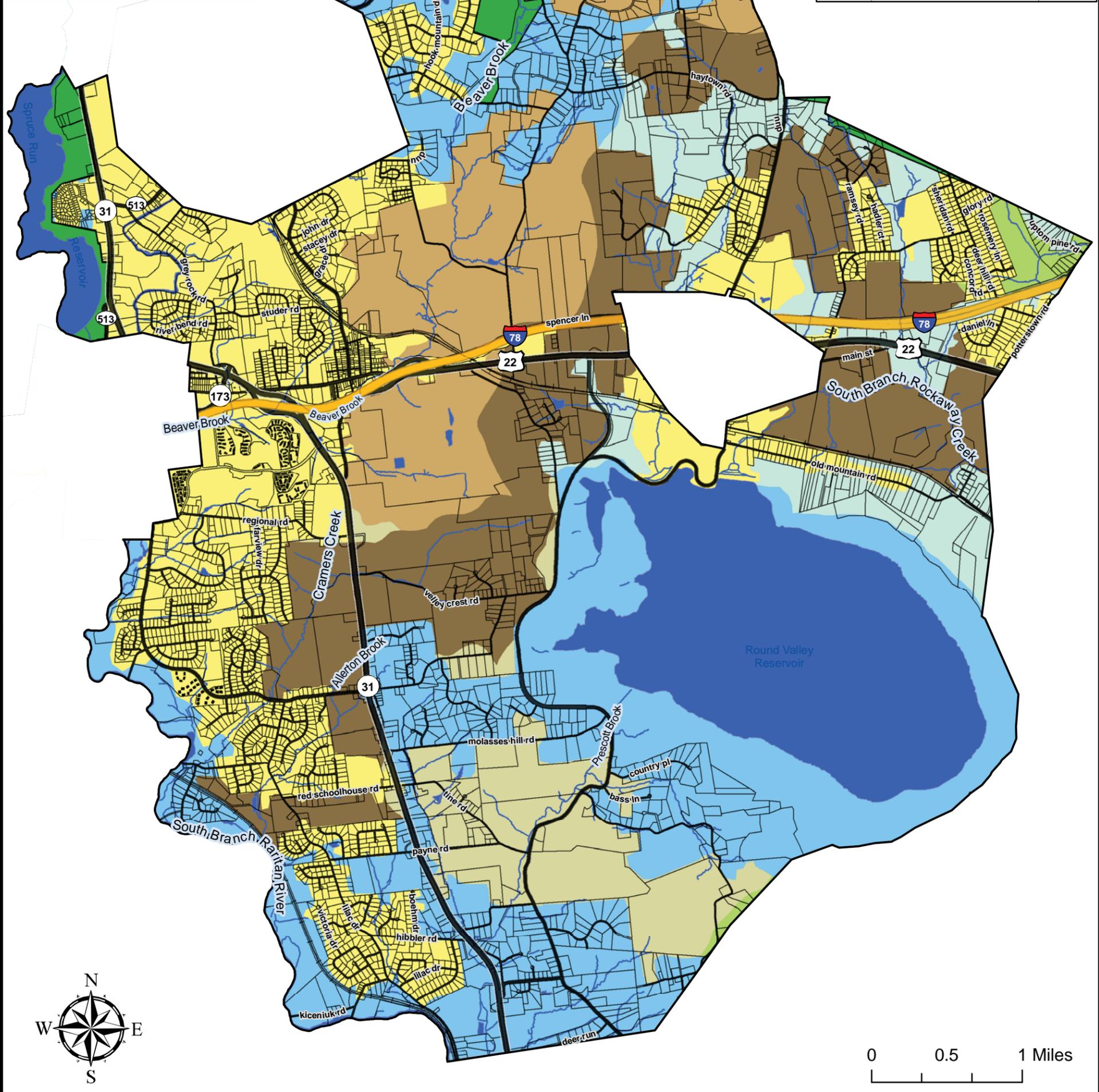
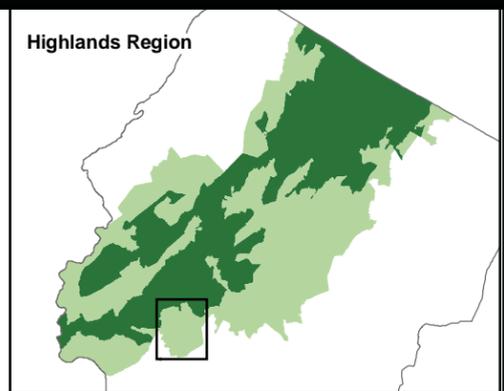
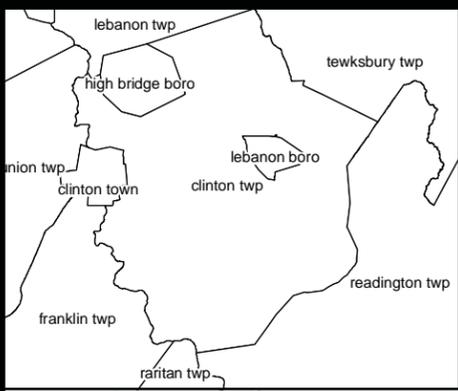
Natural Resources Inventory Land Use Capability Domestic Sewerage Facilities Map (Map 4 of 5)

A Highlands Domestic Sewerage Facility, which includes publicly-owned and investor-owned domestic wastewater treatment facilities, provides wastewater treatment to municipalities and has collection systems that can support redevelopment and regional growth opportunities. These facilities generally have NJDEP-permitted discharge capacity of more than either 0.150 million gallons per day (MGD) for discharge to surface water or 0.075 MGD for discharge to ground water.

Highlands Regional Master Plan - Part 3. The Highlands Water Protection and Planning Act, Subpart e. Wastewater Utility (pg.52)



Upper Raritan Watershed Association
GIS Department
1-7-2008
Scale: 1:44,000
Source:
Highlands LUCM - 12/2007 Highlands Council
Streams - Highlands Council
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007
Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Planning Area Zones
Septic System Yield by HUC 14

Conservation Zone	Protection Zone
0 - 10	0 - 10
11 - 34	11 - 34
35 - 77	35 - 77
78 - 132	78 - 132
133 - 297	133 - 297

Clinton Twp	Interstate
Parcels	County
Rail Roads	US/State
Lakes	Local
Streams	Existing Community Zone
	Highlands Preservation Area

Clinton Township

**Natural Resources Inventory
Land Use Capability
Septic System Yield Map**

For Planning Area: Conservation and Protection Zones
(Map 5 of 5)

Septic system density is one of various factors used in determining the land use capability of areas in the Highlands Region.

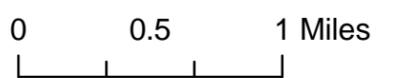
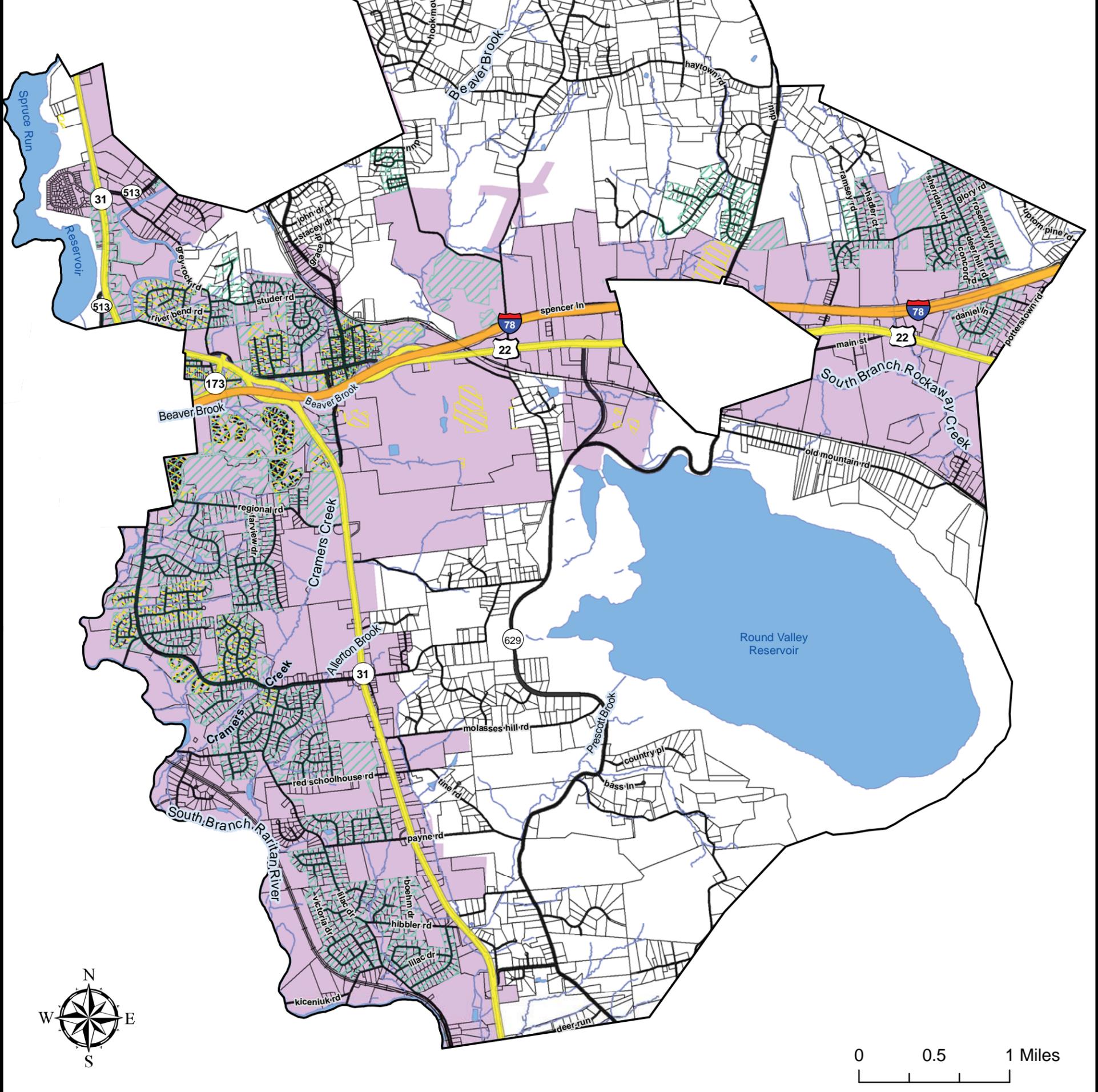
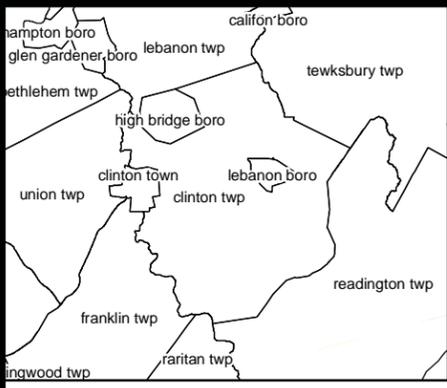
Highlands Regional Master Plan - Part 3. The Highlands Water Protection and Planning Act)
Highlands technical report - Septic System Densities for the Highlands Region (pg.39)




Upper Raritan Watershed Association
GIS Department
1-7-2008
Scale: 1:44,000

Source:
Highlands LUCM - 12/2007 Highlands Council
Streams - Highlands Council
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Legend

- Clinton Twp
- Interstate
- County
- US/State
- Local
- Rail Roads
- Lakes
- Streams
- Potable Water Existing Area Served
- Sanitary Sewer Existing Area Served
- Parcels
- Sewer Service Area

The Draft Existing Areas Served with Potable Water represent those areas within the Highlands Region that are currently served by an existing permitted Public Community Water System (PCWS).

The Draft Sanitary Sewer Existing Areas Served with Waste Water represents those areas within the Highlands Region that are currently served by a NJPDES permitted Highlands Domestic Sewerage Facility (HDSF). Individual NJPDES permitted wastewater treatment facilities, such as private industrial and commercial facilities, schools, religious retreats, and certain recreation facilities were mapped as NJPDES permitted discharge points for purposes of assessing water capacity, but were not identified as HDSF's and were not included in the Existing Areas Served mapping in the Draft Regional Master Plan. The areas represented in this dataset only represent the specific area within each parcel that is served and not the entire extent of the served parcel.

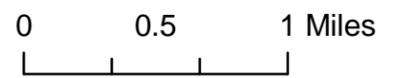
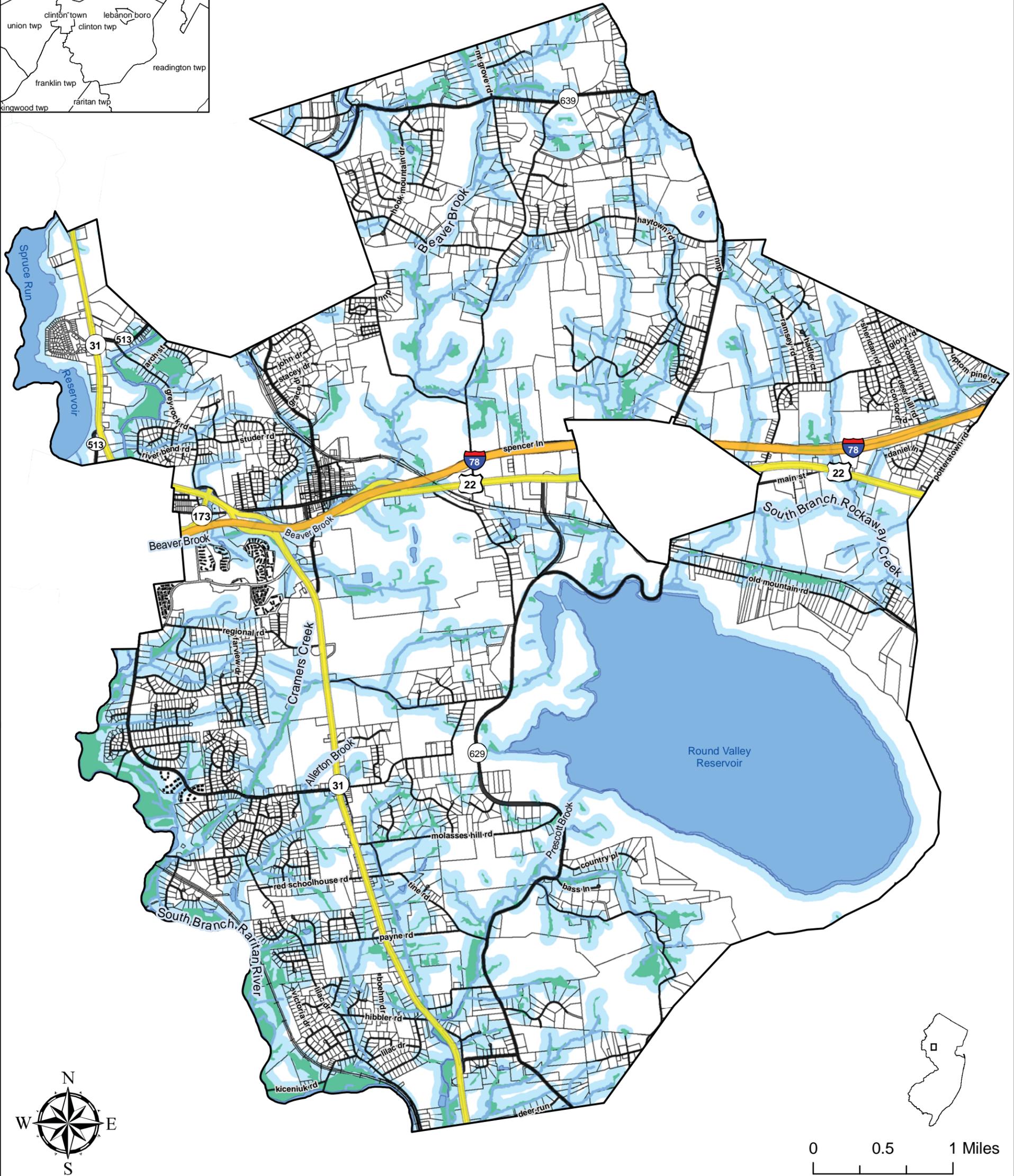
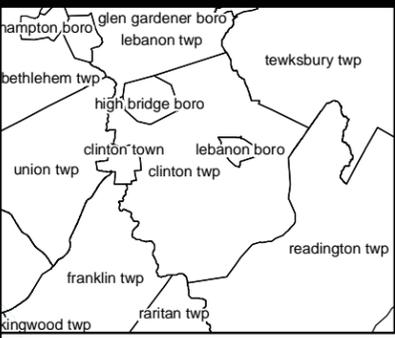
Clinton Township
Natural Resources Inventory
Highlands
Existing Areas Served

Upper Raritan Watershed Association
 GIS Department
 11-20-2007
 Scale: 1:44,000




Source:
 Potable Water - Highlands Council (3/22/2007)
 Sanitary Sewer - Highlands Council (3/22/2007)
 State Sewer Service Area - NJDEP (2005)
 Parcels - (2004) Hunterdon County
 Roads, Rails Roads, Streams, Lakes
 and Municipal Boundary - Downloads
 from Hunterdon County 1/2/2007
Please note Highlands Data is still in draft

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



- Legend**
- Clinton Twp
 - Interstate
 - County
 - US/State
 - Local
 - Rail Roads
 - Highlands Water Bodies
 - Highlands Streams
 - Highlands Wetlands
 - Parcels
 - Open Waters Protection Area

Clinton Township Natural Resources Inventory Highlands Open Waters Protection Area (Riparian Areas)

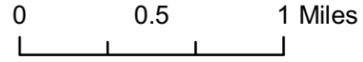
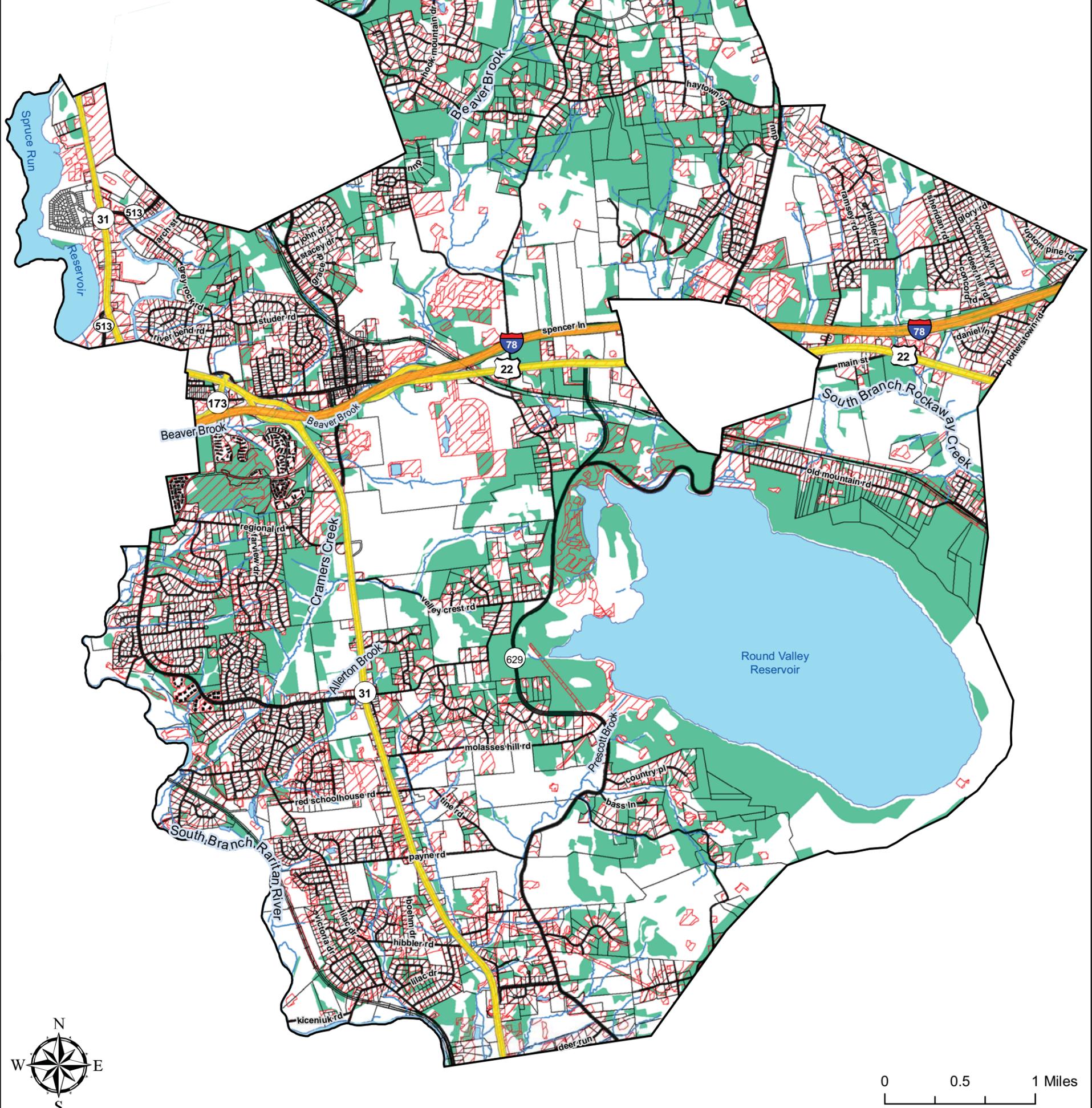
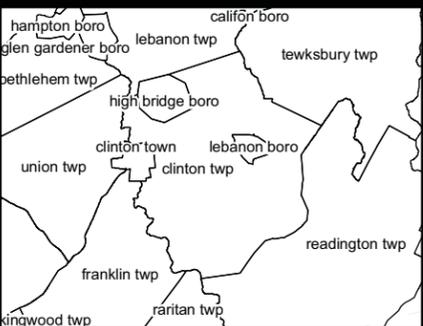
Highlands Open Waters include all springs, wetlands, intermittent or ephemeral streams, perennial streams, and bodies of surface water, whether natural or artificial, located wholly or partially within the boundaries of the Highlands Region. The protection area necessary to maintain the quality and ecological integrity of streams was evaluated. The Highlands Regional Master Plan includes a recommendation for a 300 foot protection area buffer around all streams and wetlands. -NJ Highlands Master Plan, Ecosystem Management Technical Report

Upper Raritan Watershed Association
GIS Department
11-20-2007
Scale: 1:44,000



Source:
Open Waters Protection Area - Highlands Council (2002)
Highlands Water Bodies - Highlands Council (2002)
Highlands Streams - Highlands Council (2006)
Highlands Wetlands - Highlands Council (2002)
Parcels - (2004) Hunterdon County
Roads, Rails Roads,
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007
Please note Highlands Data is still in draft

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



-  Clinton Twp
-  Interstate
-  County
-  US/State
-  Local
-  Rail Roads
-  Lakes
-  Streams
-  Parcels
-  Urban Land Use
-  Prime Ground Water Recharge

Clinton Township

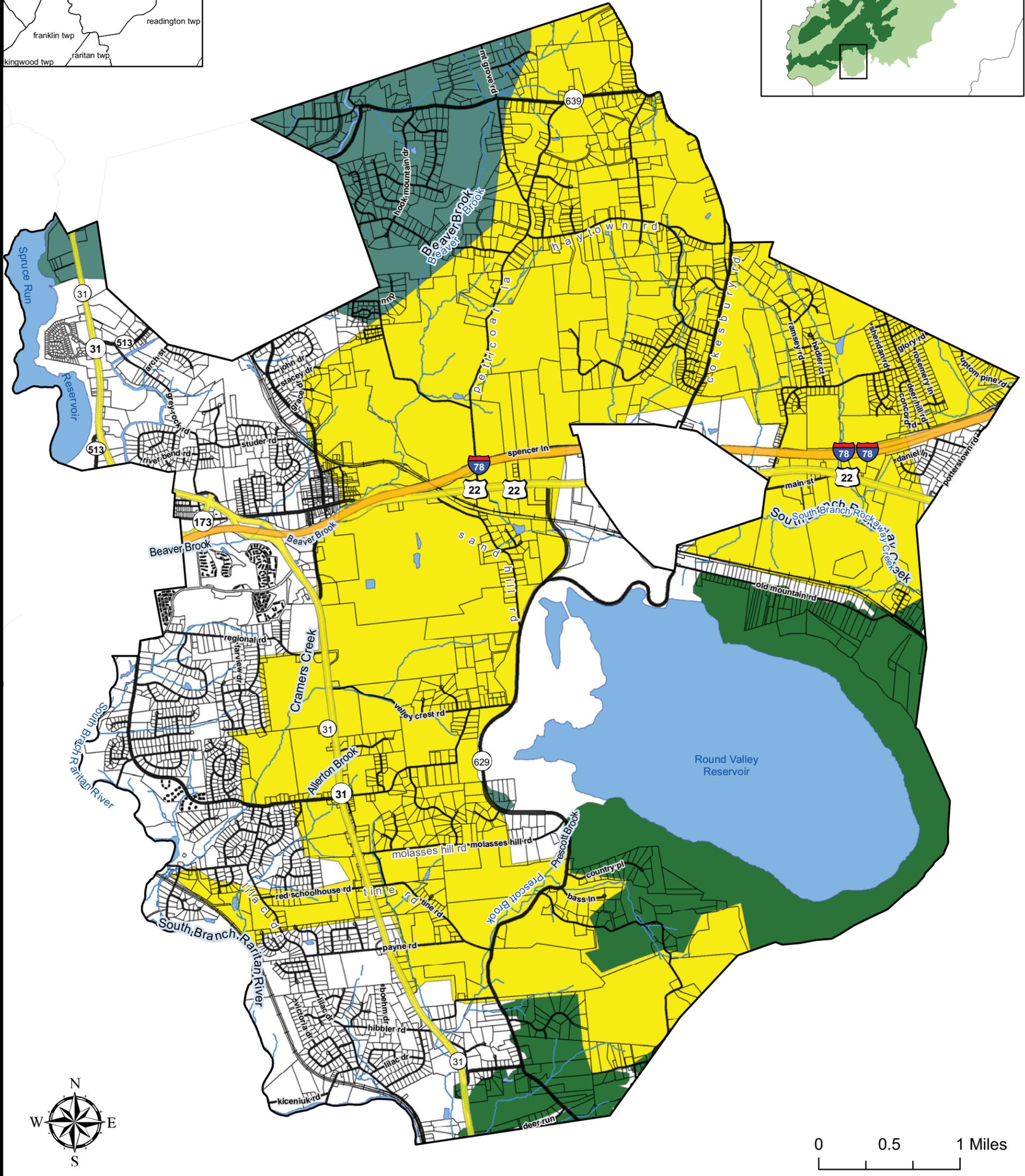
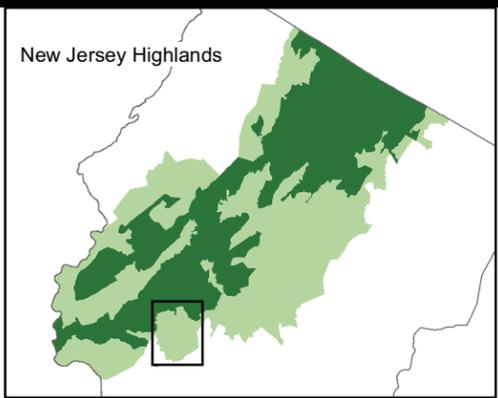
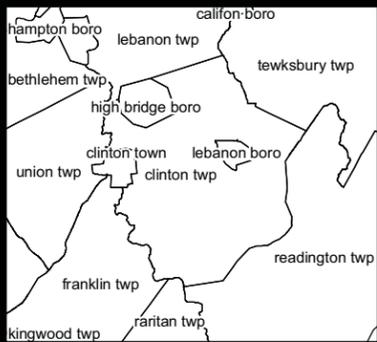
Natural Resources Inventory Highlands Prime Ground Water Recharge Area



The Highlands Council has determined Draft Prime Ground Water Recharge areas based upon a method known as GSR-32, which was developed by the New Jersey Geological Survey to map ground water recharge areas. Prime Ground Water Recharge Areas are those areas that most efficiently provide 40 percent or more of the total recharge volume for each HUC14 subwatershed, using the GSR-32 with 2002 land use/land cover data.
(p. 14, Water Resources Technical Report, Volume II – Water Use and Availability)

Upper Raritan Watershed Association
GIS Department
12-12-2007
Scale: 1:44,000
Source:
Prime Ground Water Recharge Area -
Highlands Council (1/22/2007)
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Streams, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007
Urban Land Use - (2002) LULC NJ DEP
Please note Highlands Data is still in draft

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Legend

- Clinton Twp
- Interstate
- County
- US/State
- Local
- Rail Roads
- Streams
- Lakes
- Parcels
- Agricultural Resource Area
- Critical Habitat Resource Area
- Forest Resource Area

**Clinton Township
Natural Resources Inventory
Highlands Resource Areas**



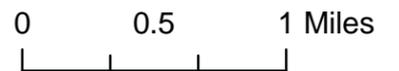
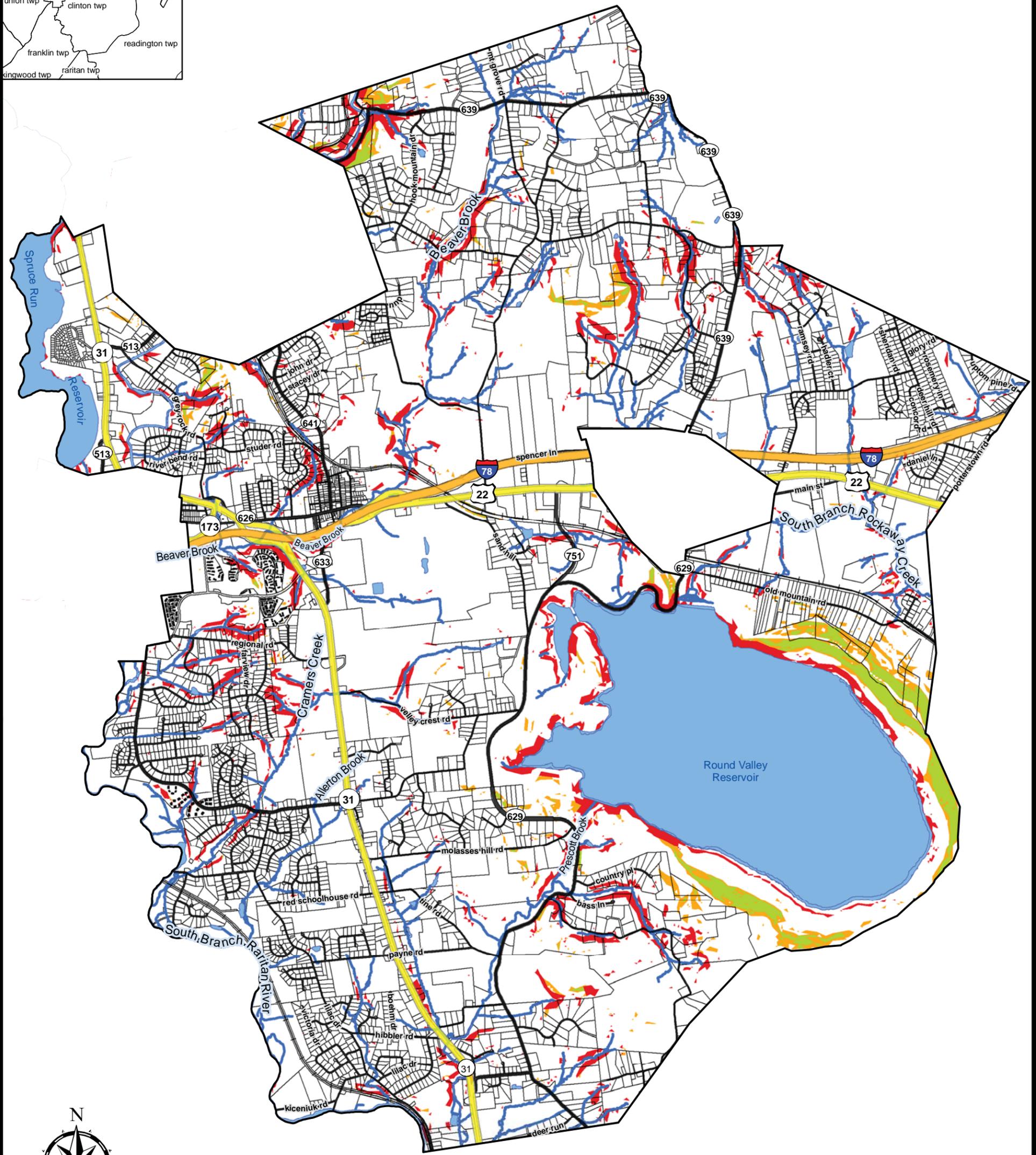
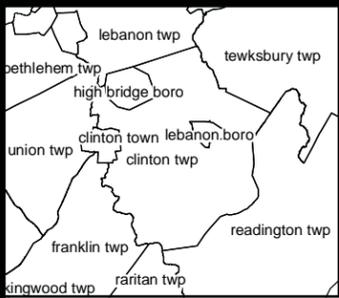
The Agricultural Resource Area was developed to delineate an integrated coverage of regional agricultural lands within the NJ Highlands Region. A technical basis and detailed background analyses of the Agricultural Resource Area can be found in the Highlands Council's Sustainable Agriculture Technical Report (NJ Highlands, January 2007).

Upper Raritan Watershed Association
GIS Department
7/12/2007

Scale: 1:50,000

Source:
Agricultural Resource Area - NJ Highlands Council (1/22/2007)
Critical Habitat Resource Area - NJ Highlands Council (1/24/2007)
Forest Resource Area - NJ Highlands Council (1/22/2007)
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Streams, Lakes and Municipal Boundary - Downloads from Hunterdon County 1/2/2007
Please note Highlands Data is still in draft

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Legend

- Clinton Twp
- Interstate
- County
- US/State
- Local
- Rail Roads
- Water Bodies
- Streams
- Parcels
- Slope > 10% Within Riparian Corridor
- Slope > 20% Undeveloped
- Slope > 15% Undeveloped

Clinton Township Natural Resources Inventory Highlands Slopes

The Highlands Council spatially examined slopes in the Highlands Region using the 10-meter Digital Elevation Grids generated from the United States Geological Survey's (USGS) Digital Elevation Model. The Council examined areas of slope in the Highlands Region that encompassed a minimum of 5,000 square feet and that exhibited one of the following grade classifications:

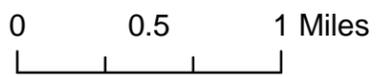
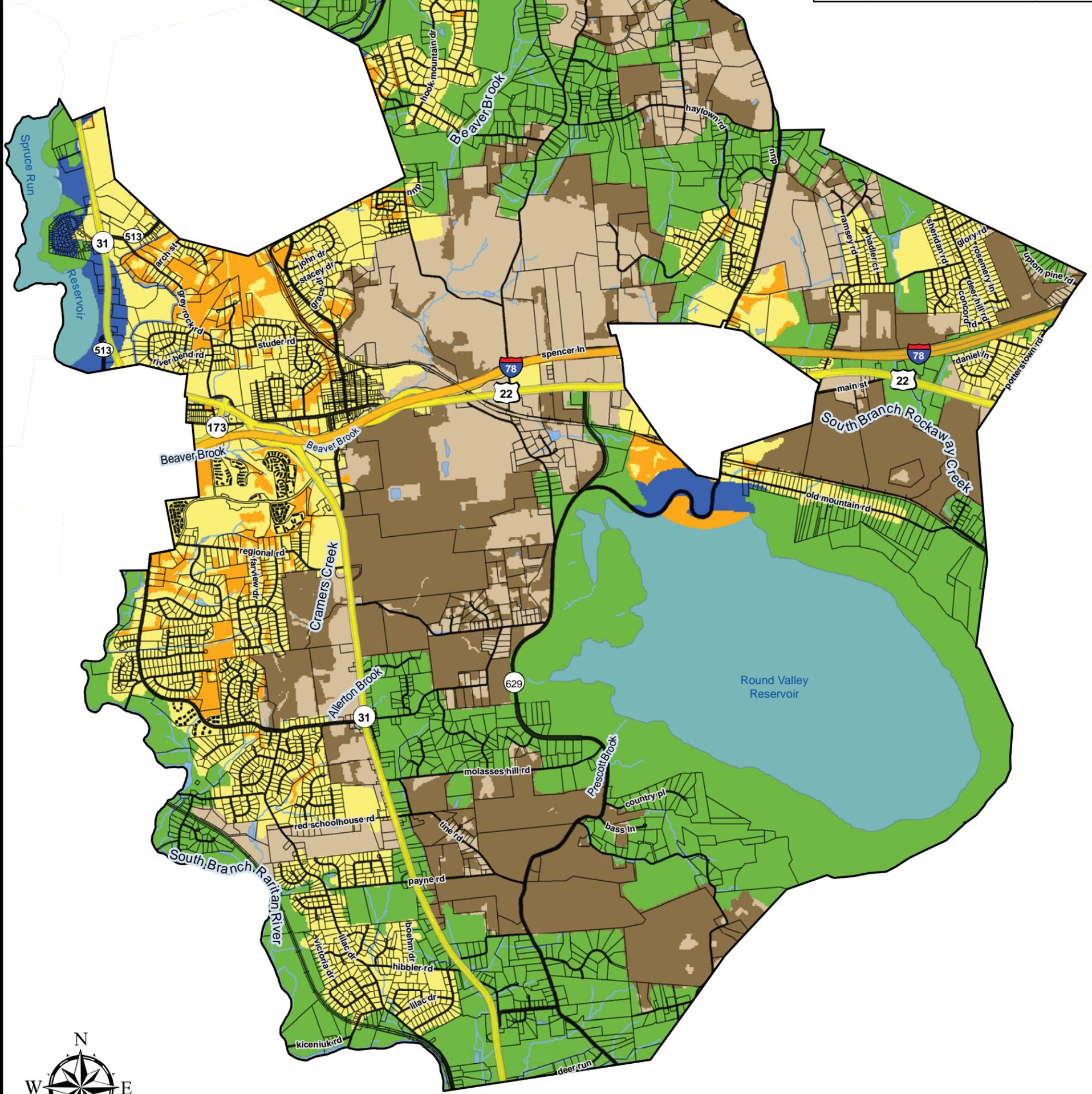
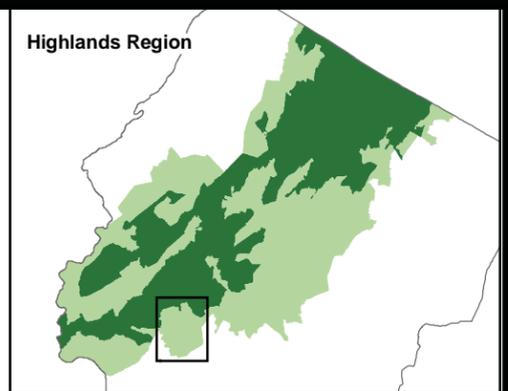
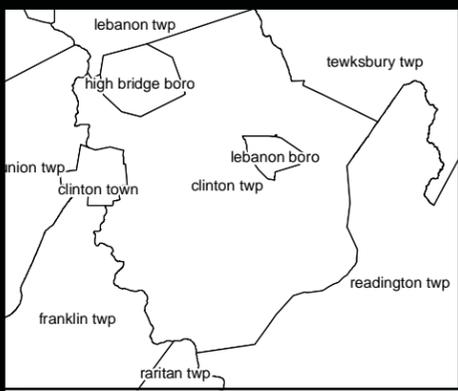
- . undeveloped lands with grades of slopes of 20% or greater;
- . undeveloped lands with grades of slope between 15% and 20%; and
- . all grades of slope between 10% and 15% that occur within the Riparian Area.

Upper Raritan Watershed Association
GIS Department
7/12/2007
Scale: 1:50,000



Source:
Slope > 10% Within Riparian Corridors - (1999) Highlands Council
Slope > 20% Undeveloped - (1999) Highlands Council
Slope > 15% Undeveloped - (1999) Highlands Council
Highlands Water Bodies - Highlands Council (2002)
Highlands Streams - Highlands Council (2006)
Highlands Wetlands - Highlands Council (2002)
Parcels - (2004) Hunterdon County
Roads, Rails Roads,
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007
Please note Highlands Data is still in draft

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such information are the sole responsibility of the user.



Clinton Twp Zone	Protection
Parcels	Conservation
Interstate	Existing Community
County	Sub-Zone
US/State	Lake Community
Local	Conservation Constrained
Rail Roads	Existing Community Constrained
Streams	Highlands Planning Area
Lakes	Highlands Preservation Area

Clinton Township

Natural Resources Inventory Land Use Capability Zone Map (Map 1 of 5)

The Highlands Final Draft Land Use Capability Zone Map utilizes overlay zones to address the requirements of the Highlands Water Protection and Planning Act (Highlands Act) and to provide regional guidance for the implementation of the policies in the Regional Master Plan.

Highlands Regional Master Plan, Chapter I, Part 3.
Highlands technical report (Pg. 94 - Land Use Capability Zone Map Development)



Upper Raritan Watershed Association
GIS Department
1-7-2008
Scale: 1:44,000

Source:
Highlands Zone (LUCM) 12/2007 Highlands Council
Streams - Highlands Council
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007

Disclaimer: This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from this information are the sole responsibility of the user.