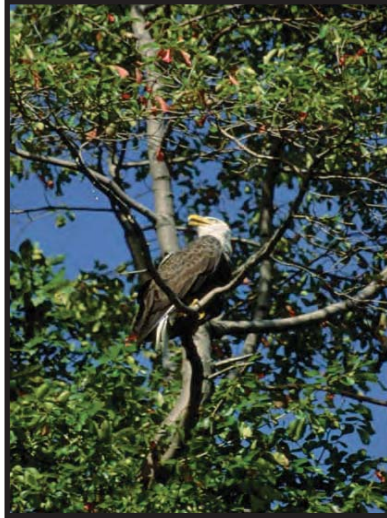


Clinton Township

Natural Resources Inventory Update



Prepared by

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Upper Raritan Watershed Association

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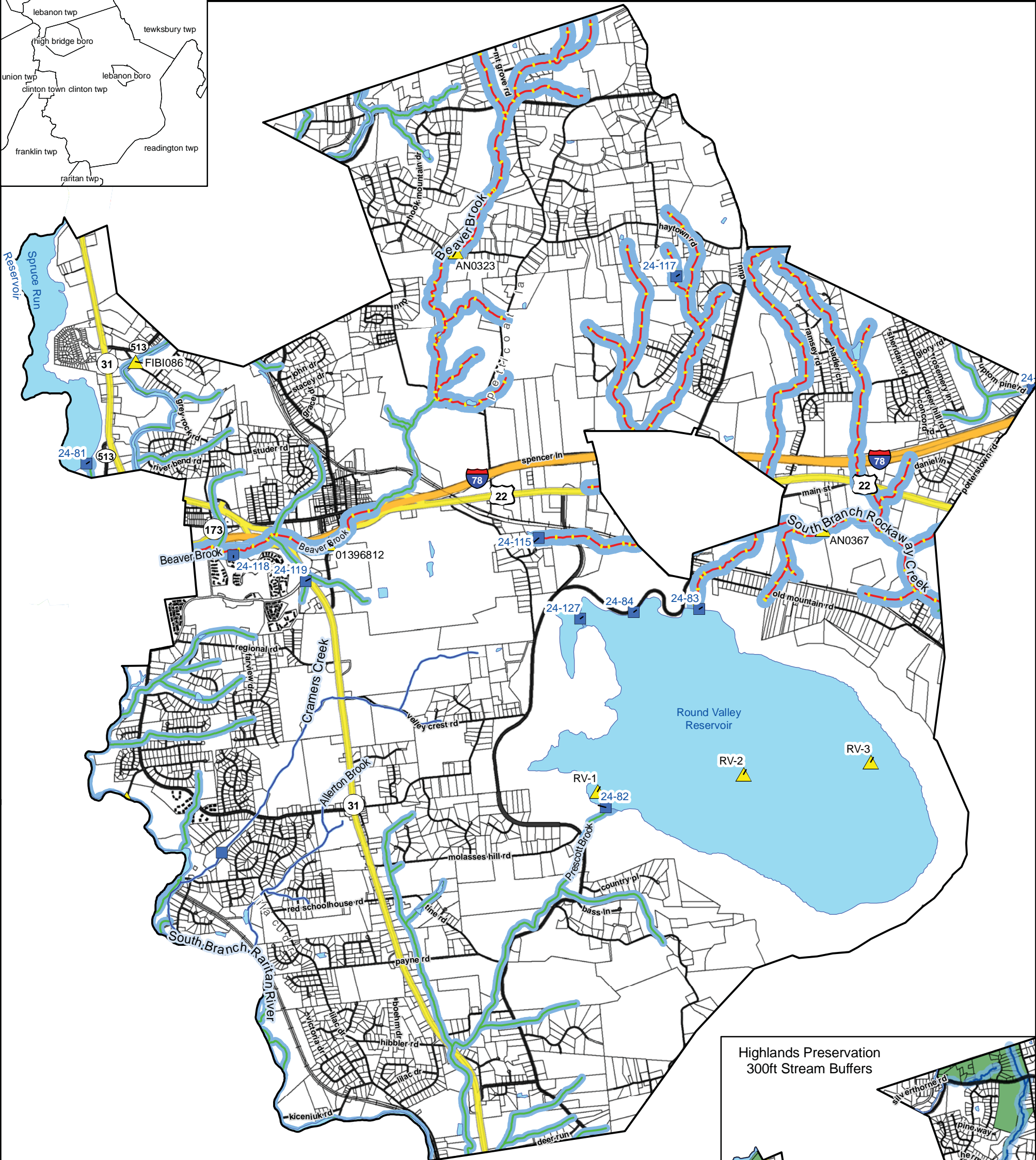
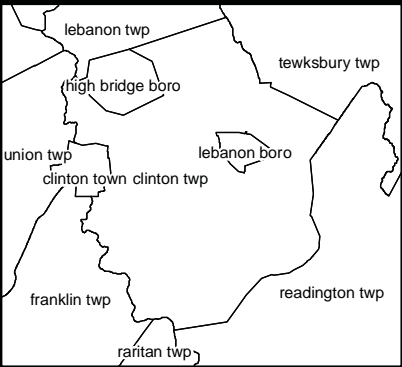
908.234.1852

www.urwa.org

June 2008

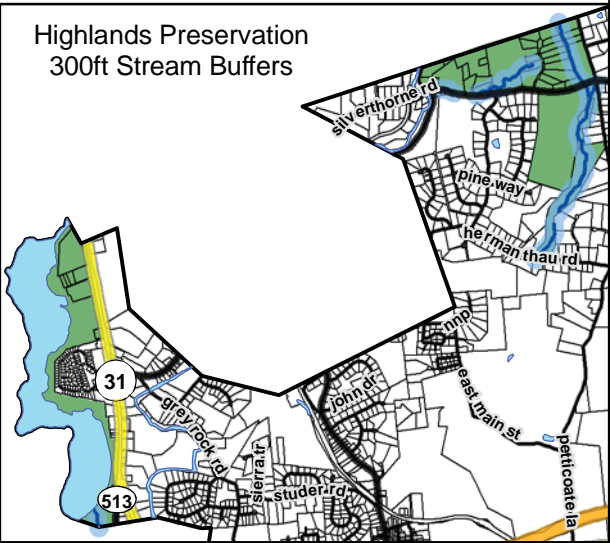
Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
950000	40001	South Branch Reservation	County	Partial Easement	27.92
4000000	10000	Columbia Trail	County	Fee Simple	4.29
4000000	20000	Columbia Trail	County	Fee Simple	3.34



Highlands Preservation Buffer Legend

- Lakes
- Streams in Highlands Preservation Area
- Highlands Preservation Buffer 300ft
- Highlands



Legend

- Stream Monitoring Sites
- Dams
- Surface Water Quality Standards**
- FW2-NT
- FW2-NTC1
- FW2-TM
- FW2-TM/SE1
- FW2-TMC1
- FW2-TP
- FW2-TPC1
- SWQ Rules Buffer

- Lakes
- Rail Roads
- Interstate
- County
- US/State
- Local
- Clinton Twp
- Parcels

The buffer restrictions shown on the above map are outlined in the Stormwater Management Rule (N.J.A.C. 7:8), the Flood Hazard Area Control Act rule (N.J.A.C. 7:13), and the proposed amendments to the Surface Water Quality Standards rule (N.J.A.C. 7:9B),

As a result of the Highlands Water Protection and Planning Act, all water courses in the Highlands Preservation Area have 300 foot buffers.

Clinton Township

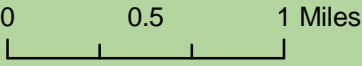
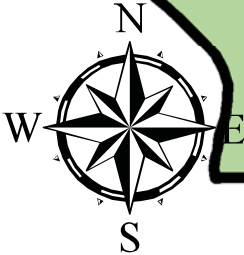
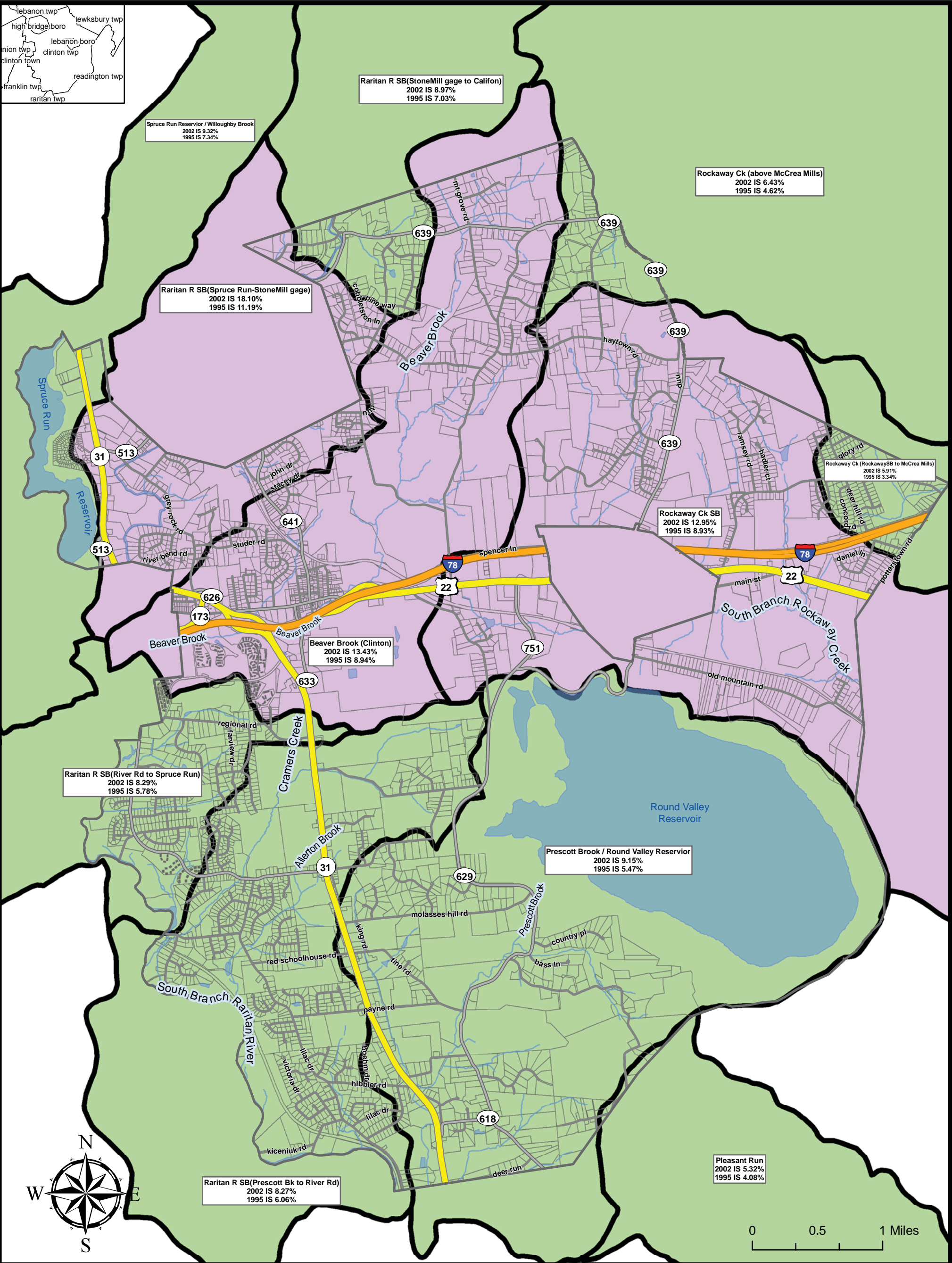
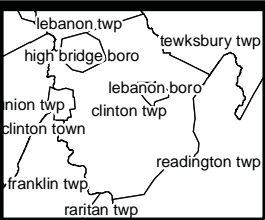
Natural Resources Inventory

Surface Water Quality Standards



Upper Raritan Watershed Association
GIS Department
1-2-2006
Scale: 1:63,000

Source:
Contaminated Sites - (2005) NJDEP
Stream Monitoring Sites - (2005) storet, fibi
Surface Water Quality Standards - (11-2006) NJDEP
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Streams, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007



- Clinton Twp HUC14 Impervious Surface
 - Interstate
 - County
 - US/State
 - Local
 - Lakes
 - Streams
 - Parcels
- | | |
|--|-------|
| | < 10% |
| | > 10% |

Clinton Township

Natural Resources Inventory

HUC 14 Impervious Surface

The first step in creating HUC14 impervious surface layer was to code the HUC14 sub-watershed polygons with some additional attributes. The HUC14 layer was merged with the 2002 LU/LC layer so that the mean impervious surface percent of each HUC14 basin could be calculated. The LU/LC layer includes an estimate of the impervious surface percentage of each polygon mapped in that layer. Using this value, a mean impervious surface percentage could be calculated for each sub-watershed mapped in the HUC14 layer. Once the mean value was calculated, all HUC14 basins with a value of less than 10%, could be identified, and coded as such.



Upper Raritan Watershed Association
GIS Department
11-14-2007
Scale: 1:44,000
Source:
Impervious Surface - (2002) NJDEP
HUC14 - NJDEP
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Streams, 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.

Clinton Township Natural Resources Inventory Highlands Maps Narrative

This narrative is intended for clarifying maps within the NRI and reference should always be made to the Highlands Water Protection and Planning Act and the Highlands Regional Master Plan when making decisions regarding Township business, regulated activities, etc.

The Highlands Regional Master Plan sets forth policies, regulations, and standards for the region. While still in draft form, the Plan and its contents will fully apply when the plan is formally adopted. This narrative reflects the draft Plan stipulations.

Clinton Township Highlands Map:

The Highlands Water Planning and Protection Act designated all lands within the region into one of two areas. The Preservation Area was established to protect the most sensitive natural resources and all policies and regulations developed through the legislation apply to properties within the Preservation Area. The Planning Area contains resources of importance but the policies and regulations do not apply unless the municipality chooses to opt in to the Highlands Regional Master Plan which is due to be released the summer of 2008. According to the map, Clinton Township is primarily located within the Planning Area with only small portions of Preservation Area in the north.

Highlands Boundary Map:

This map depicts Clinton Township alone and shows the land area subject to the regulations of the Preservation Area as well as the fact that the rest of the township resides in the Planning Area.

Land Use Capability Zone Map:

The Highlands Regional Master Plan designated three zones based on the quality and type of resources located in the area. The Conservation Zone, Planned Community Zone, and the Protection Zone contain all the lands in the region and overlay the previously designated Preservation and Planning Areas. The Highlands Regional Master Plan sets forth policies and regulations that apply to each zone and are intended to sufficiently protect natural resources and manage growth according to the capacity of the lands within the zone.

While the Protection Zone regulates activities and restricts development to prevent degradation of the most critical resources in the region, the Conservation Zone policies encourage agricultural production and protection of the farming industry. The Existing Communities Zone reflects those areas with significant existing development and is regulated to encourage smart growth. The Plan encourages compact development that maximizes investments in infrastructure and promotes mixed use in these areas.

The three primary zones also include sub-zones which apply to specific communities and characteristics. The Lake Community Zone refers to the unique areas surrounding lakes, and Plan policies reflect the specific issues that need to be addressed in these locales. Similarly, the Conservation Constrained and Existing Community Constrained Zones exhibit characteristics of the Conservation Zone and Existing Community Zone respectively, but they contain critical habitat, steep slopes, or other resource constraints that require more restrictive policies and regulations.

This map shows which lands within Clinton Township are governed by policies and regulations applicable to each of the zones and sub-zones. Please refer to the Highlands Regional Master Plan for specific policies, regulations, and standards set forth for each zone.

Highlands Resource Area Map:

In addition to the previous overlays, the Highlands Regional Master Plan establishes three resource areas to facilitate the planning process by assessing development potential given the need to maintain ecological values in each of these areas. The Agricultural Resource Area, the Forest Resource Area, and the Critical Habitat Area, were defined through scientific evaluations of natural resources in the region. Resource integrity and viability among other factors led to the designation of lands into one of these categories in order to focus protection efforts around defining characteristics of locations. This map shows which resource areas apply to lands within the Township. Please refer to the Highlands Regional Master Plan for the specific goals and objectives identified for each area.

Highlands Prime Ground Water Recharge Map:

The Prime Ground Water Recharge Areas shown on this map represent areas of land responsible for returning at least 40% of the total recharge volume of a subwatershed (HUC 14). The preservation of these areas is critical to maintaining water quality and quantity in the region. The Highlands Regional Master Plan sets forth policies and regulations to minimize degradation to these areas which includes limiting impervious surfaces and development within these locations. This map is most useful when viewed with the Land Use Capability Map as each zone has specific regulations regarding Prime Ground Water Recharge Areas.

Highlands Existing Area Served Map:

As the Highlands Council had to determine water usage and capacity for growth in the region, permitted Public Community Water Systems (PCWS) were evaluated. This map shows the existing areas in Clinton Township that are served potable water through PCWS.

In the Preservation Area, the sewer service areas were retracted to only the locations where utility pipes currently exist, and the Highlands Regional Master Plan aims to avoid allowing service areas that support development that would degrade water quality or exacerbate water deficits. Due to the fact that Highlands regulations restrict the expansion of sewer service, this map is useful in identifying the current extent of sewer infrastructure. The Sanitary Sewer Existing Areas Served layer represents the portions of each parcel that currently have wastewater service provided by a permitted Highlands Domestic Sewerage Facility. The Existing Sewer Service Area depicts the land area that is potentially served by the current facility.

Land Use Capability Map Public Community Systems Map:

Potable water supplies are provided through Public Community Systems. The Highlands Council evaluated the capacity of these systems to assess water usage and better identify areas that can support future growth. While this map shows the available capacity for the systems serving Clinton Township, please note that the data used to quantify these amounts are not the most-up-to-date quantities and therefore likely to suggest that more capacity is available than currently is.

Land Use Capability Map Septic System Yield Map:

The use of septic systems contributes nitrates to the environment that can pollute water resources and threaten human as well as ecological health. While NJ Department of Environmental Protection rules govern nitrate concentrations in the Preservation Area, the Highlands Council needed to address them in the Planning Area. In order to ensure that the potential pollutants are sufficiently diluted, the Highlands Council evaluated the land characteristics in the region and assigned septic system yield by subwatershed (HUC 14) to meet nitrate concentration targets and water quality goals. This map shows the density of septic systems that each subwatershed can support when policies governing the Protection and Conservation zones are applied. Development potential is limited by septic system yield.

Highlands Open Waters Protection Area Map:

The Highlands Regional Master Plan intends to protect water quality by mandating a 300 foot buffer adjacent to all streams and wetlands in the region. This regulation applies only to the Preservation Area unless Clinton Township was to opt in to the Plan in which case all regulations will apply to all streams. This map shows the surface waters of the Township and when viewed with the Highlands Boundary Map reveals which waters are subject to the Highlands regulations.

Land Use Capability Map Water Availability Map:

In order to promote sustainable uses of water supplies in the region, the Highlands Council quantified the water availability in each subwatershed in the region and evaluated water usage as well as ecological needs and reservoir safe yields. The Council

calculated net availability, the amount of water capacity that exceeds the current consumptive and depletive uses as well as the ecological needs of the area. If net availability is positive, it is shown in blue as unconditional availability on the map. If there is a water deficit in the subwatershed, the map identifies these areas in green and additional water use is deemed conditional in the Highlands Regional Master Plan. The amount of conditional availability is determined by policies and regulations that govern zones within the region. In order to allocate water for additional consumptive or depletive uses in deficit areas, the quantity desired must be mitigated at 125% of the new use. Development proposals are directly affected by water availability, and the Plan outlines the procedure for pursuing projects in deficit areas and how mitigation will proceed.

Highlands Slopes Map:

The Highlands Regional Master Plan acknowledges that development on steep slopes degrades water resources by exacerbating erosion and sedimentation while increasing stormwater runoff. For these reasons, the Highlands Council identified steep slopes in the region to improve resource management and developed policies to address the potential issues associated with this terrain. This map depicts the varying degrees of slope in Clinton Township, and the Highlands Regional Master Plan outlines the policies and regulations that apply to each.

Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
		VORHEES	state	PF	617.30
1	6	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	16.19
8	5	CUSHETUNK MTN NAT PRESERVE	HUNTERDON	C	2.15
11	4	SPRUCE RUN	state	PF	1,336.30
11	4	SPRUCE RUN	state	PF	668.00
11	20	Hinchman	NJCF	NP	6.01
13	24	Kapp	NJCF	NP	19.58
13	25	Kapp	NJCF	NP	76.94
13	25	Kapp	NJCF	NP	12.65
13	28	HAYTOWN ROAD	CLINTON TWP	M	0.22
14	7	ROUND VALLEY	state	PF	5.00
15	1	ROUND VALLEY	state	PF	1,570.60
15	3	ROUND VALLEY	state	PF	15.70
16	1	ROUND VALLEY	state	PF	2,219.70
16	3	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	114.86
16	4	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	17.46
16	6	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	1.85
16	7	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	5.47
16	10	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	8.25
16	11	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	6.93
16	15	CUSHETUNK MT NAT RESERVE	HUNTERDON CO	C	3.14
16	17	CUSHETUNK MT NAT RESERVE	HUNTERDON CO	C	18.77
16	19	CUSHETUNK MT NAT RESERVE	HUNTERDON CO	C	16.13
17	29	Hinchman	NJCF	NP	92.52
19	20	ARBORETUM EXTENSION	COUNTY	C	5.15
19	20	ARBORETUM EXTENSION	HUNTERDON COUNTY	C	27.92
19	28	CLINTON TWP PLANNING INCENTIVE	CLINTON TWP	M	75.32
20	3	ARBORETUM	HUNTERDON CO	C	2.02
20	4	ARBORETUM	HUNTERDON CO	C	74.68
25	2	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	115.51
25	10	CLINTON TWP PLANNING INCENTIVE	CLINTON TWP	M	85.95
25	11	CUSHETUNK MT NAT PRESERVE	HUNTERDON CO	C	7.29
29	8	HUNTS MILLS PARK	CLINTON	M	36.76
30	5		state	PF	45.40
30	19	EXXON EDUCATION FOUNDATION	HUNTERDON CO	M	93.73
30	23	EXXON EDUCATION FOUNDATION	HUNTERDON CO	M	1.58
30	35	PROJECT PLAYGROUND	CLINTON TWP	M	52.29
30	39	OLD ALLERTON ROAD	CLINTON TWP	M	0.38
30	39	OLD ALLERTON ROAD	CLINTON TWP	M	0.24
33	2	SPRINGSIDE WOODLANDS	CLINTON TWP.	M	53.54
33	4	IRVING FARM	TWP/TRANSFER	M	4.56

Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
33	10	FORAN PARK (DOC-ENDS 2005)	PRIVATELY OWNED (LEASE)	C	264.00
34	1	BEAVER BROOK RAVINE	CLINTON TWP	M	98.70
34	2	BEAVER BROOK RAVINE	CLINTON TWP	M	50.85
34	16	SOUTH BRANCH RIVER RESERVE	HUNTERDON CO	C	21.04
36	20	KEN LOCKWOOD GORGE	state	FGW	5.30
39	7	KEN LOCKWOOD GORGE	state	FGW	0.40
41	3	CAMP DILL ADDITION	CAMPDILL	NP	3.17
41	4	CAMP DILL	COUNTY	C	5.90
46	14	ROUND TOP DRIVE	CLINTON TWP	M	0.12
54	1	BEAVER AVE	CLINTON TWP	M	0.28
56	4	HUMPHREY ROAD	CLINTON TWP	M	0.10
58	1	OLD ALLERTON ROAD	CLINTON TWP	M	0.17
63	2	CLINTON TWP PLANNING INCENTIVE	CLINTON TWP	M	79.89
68	2	RARITAN RIVER GREENWAY	CLINTON TWP	M	4.88
68	2	RARITAN RIVER GREENWAY	CLINTON TWP	M	14.20
70	8	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	23.40
81	3	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	7.33
81	5	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	1.79
81	6	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	2.46
81	7	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	5.78
81	8	HAMDEN RD	CLINTON TWP	M	2.24
81	9	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	34.43
81	40	WALES COURT	CLINTON TWP	M	12.91
82	6	HAMDEN ROAD	CLINTON TWP	M	19.92
82	8	CAMBRIDGE DR	CLINTON TWP	M	1.24
82	9	OAK KNOLL	CLINTON TWP	M	1.26
82	11	WELLINGTON DR	CLINTON TWP	M	1.05
82	12	WELLINGTON DR	CLINTON TWP	M	7.04
82	16	OAK KNOLL	CLINTON TWP	M	11.75
82	25	DARTMOUTH RD	CLINTON TWP	C	4.61
82	40	ANDREANN DRIVE	CLINTON TWP	M	16.82
82	43	WELLINGTON DR	CLINTON TWP	M	0.62
82	57	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	52.32
82	61	BRIGHTON COURT	CLINTON TWP	M	21.47
83	4	RIVER ROAD	CLINTON TWP	M	1.14
86	2	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	27.27
87	47	WHISPERING HILLS	CLINTON TWP	M	1.55
91	8	SOUTH BRANCH RESERVATION	COUNTY	C	13.70
91	13	EchoHillEnv.Ed/SouthBranchRes.	HUNTERDON CO	C	76.64
93	1	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	13.52
93	1	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	4.75
93	2	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	12.94

Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
94	1	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	6.28
94	2	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	12.37
95	1	SOUTH BRANCH RESERVATION	COHUNTERDON	C	16.05
95	2	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	66.53
95	2	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	1.80
95	4	SOUTH BRANCH RESERVATION	HUNTERDON CO	C	27.92
400	1	COLUMBIA TRAIL	HUNTERDON CO	C	4.29
400	2	COLUMBIA TRAIL	HUNTERDON CO	C	3.34
10000	260007		Private	Simple	12.60
10004	260023		Private	Fee Simple	1.56
10004	260028		Private	Fee Simple	2.53
30000	190000		Board of Education		25.55
70000	40003		State		0.95
70000	50001		State		0.87
80000	10000	Spruce Run State Park	State		121.50
80000	50000	Cushetunk Mountain Nature Reserve	County	Fee Simple	2.15
100000	40000	Round Valley State Park	State		8.67
110000	40000	Spruce Run State Park	State	Simple	1,984.66
120000	180000		Private		9.02
120000	180002		Private		6.25
130000	120000		Private		22.19
130000	240003		Non-Profit	Easement	19.58
130000	240037		Private		27.99
130000	250000		Non-Profit	Easement	76.94
130000	250001		Non-Profit	Easement	12.65
130000	280000		Municipal		0.22
140000	50001	Round Valley State Park	State		5.46
150000	10000	Round Valley State Park	State		158.97
150000	30001	Round Valley State Park	State		7.88
150000	40001	Round Valley State Park	State		5.10
160000	10000	Round Valley State Park	State		1,420.61

Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
160000	10000	Round Valley State Park	State		2,214.93
160000	10000	Round Valley State Park	State		31.38
160000	30000	Cushetunk Mountain Nature Reserve	County	Fee Simple	115.16
160000	40000	Cushetunk Mountain Nature Reserve	County	Fee Simple	17.46
160000	60000	Cushetunk Mountain Nature Reserve	County	Fee Simple	1.85
160000	70000	Cushetunk Mountain Nature Reserve	County	Fee Simple	5.47
160000	100000	Cushetunk Mountain Nature Reserve	County	Fee Simple	8.25
160000	110000	Cushetunk Mountain Nature Reserve	County	Fee Simple	6.93
160000	150000	Cushetunk Mountain Nature Reserve	County	Fee Simple	3.14
160000	170000	Cushetunk Mountain Nature Reserve	County	Fee Simple	18.77
160000	190000	Cushetunk Mountain Nature Reserve	County	Fee Simple	16.13
160000	230000	Spruce Run State Park	State		19.52
160000	510029		Private	Fee Simple	16.59
190000	200000	County Arboretum	County	Fee Simple	5.15
190000	200001	County Arboretum	County		27.92
190000	370000		Private	Easement	196.35
200000	10001		Municipal		76.28
200000	40000	South Branch Reservation	County	Fee Simple	73.49
250000	20000	Cushetunk Mountain Nature Reserve	County	Fee Simple	119.53
250000	30000	Round Valley State Park	State		22.77
250000	80000	Round Valley State Park	State		21.19
250000	110000	Cushetunk Mountain Nature Reserve	County	Fee Simple	7.29
280000	340000	Round Valley State Park	State		46.04
280001	120004	Patrick McGaheeran School	Board of Education		24.29
290000	80000		Municipal	Fee Simple	36.76
300000	10000	Round Valley State Park	State		28.99
300000	190000		Municipal		93.26

Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
300000	230000		Municipal		1.94
300000	390000		Municipal		0.38
300001	390001		Municipal		0.24
330000	100000		Municipal	Dept. Correc	21.65
340000	20000		Municipal		50.03
340000	100005		Private		28.62
340001	190000		Private		58.87
340003	10000		Private		18.26
340006	160000	South Branch Reservation	County	Fee Simple	21.04
360000	200000	Ken Lockwood Gorge Fish & Wildlife Management Area	State		5.26
390000	10000		Private		30.08
390000	10000	Voorhees State Park	State		9.09
390000	70000	Ken Lockwood Gorge Fish & Wildlife Management Area	State		0.39
400000	40000		Municipal	Fee Simple	37.52
410000	40000	Columbia Trail	Private	Easemen t	5.90
460000	140001		Municipal		0.12
460000	880000		Private		27.01
460003	40000		Private		6.92
540000	10000		Municipal		0.28
550000	80000		Board of Education		1.95
560000	40000		Municipal		0.10
580000	10000		Municipal		0.17
580000	10000	South Branch Reservation	County	Fee Simple	0.52
600000	510000	Spruce Run School	Board of Education		16.59
600000	570000		Private	Fee Simple	2.57
600002	230000		Municipal		4.96

Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
600003	260000		Municipal		11.43
610000	150000		Municipal	Fee Simple	0.13
630000	20000		Municipal	Fee Simple	83.86
630000	30001		Municipal	Fee Simple	0.75
630000	30028		Private	Fee Simple	6.99
630000	70000		Private	Fee Simple	6.62
630000	70010		Private	Fee Simple	10.38
660000	150000		Municipal		47.29
680000	150000	Spruce Run State Park	State		341.41
700000	80000	South Branch Reservation	County	Fee Simple	26.30
710003	100000		Private		7.24
790000	10000	North Hunterdon Regional High School	Board of Education		49.13
790001	10000		Private		27.71
790001	40002		Private	Fee Simple	2.79
790001	40003		Private	Fee Simple	3.59
790002	60000		Private		20.22
810000	30000	South Branch Reservation	County	Fee Simple	7.33
810000	50001	South Branch Reservation	County	Fee Simple	1.79
810000	60001	South Branch Reservation	County	Fee Simple	2.46
810000	70000	South Branch Reservation	County	Fee Simple	5.78
810000	80000		Municipal		2.24
810000	90000	South Branch Reservation	County	Easemen	34.43
810000	400000		Municipal		12.91
820002	90000		Municipal		1.26
820004	160000		Municipal		11.93
820006	60000		Municipal		19.92
820006	400000		Municipal		16.82

Clinton Township Natural Resource Inventory - Open Space List

Block	Lot	Name	Owner	Type	Acres
820007	250000		Municipal		4.61
820007	430000		Municipal		0.62
820008	80000		Municipal		1.24
820011	120000		Municipal		7.04
820012	110000		Municipal		1.05
820013	570001	South Branch Reservation	County	Simple	52.32
820013	580000		State	Fee Simple	36.37
820013	610001		Private	Fee Simple	2.00
820013	610034		Municipal		21.47
830000	40000		Municipal		1.14
860000	20000	South Branch Reservation	County	Fee Simple	27.27
860000	20001	South Branch Reservation	County	Fee Simple	1.80
870000	50011		Private	Fee Simple	7.68
870000	110030		Private	Fee Simple	5.85
870000	110031		Private	Fee Simple	1.76
870000	110032		Private	Fee Simple	1.54
870000	130000		Private	Fee Simple	17.65
870000	470000		Municipal		1.55
870000	600000		State		3.59
880000	30001		Municipal	Simple	5.26
910001	130000	South Branch Reservation	County	Fee Simple	73.22
930000	10000	South Branch Reservation	County	Fee Simple	13.10
930000	10002	South Branch Reservation	County	Fee Simple	4.75
930000	20000	South Branch Reservation	County	Fee Simple	12.94
940000	10000	South Branch Reservation	County	Fee Simple	6.28
940000	20000	South Branch Reservation	County	Fee Simple	12.37
950000	10000	South Branch Reservation	County	Fee Simple	16.05
950000	20000	South Branch Reservation	County	Easement	66.53

ID	Block	Lot	Name
1	240000	60000	Acorn Montessori School
2	260000	20000	Annandale Pre-School and Day Care
3	360000	180000	Apple Dumpling Day Care
4	480000	50000	Building Blocks Day Care
5	600000	510000	Clinton Twp Before & After School Program
6	280001	120004	Clinton Twp Before & After School Program
8	130002	230001	First Step Learning Center
9	550000	80000	Foundations Pre-School
10	230000	10001	His Loving Arms
11	300000	350000	Immaculate Conception School
12	290000	30001	Ivy leaf School
13	460000	100000	Mary Becker Family Day Care
14	710000	130000	Melanie Lenahan Family Day Care
15	30003	20000	Right at Home Day Care
16	470000	50002	Tiny Treasures
17	130001	80002	YMCA Child Learning Center

Clinton Township Natural Resource Inventory - Groundwater Contamination List

ID	Name	Scale	Block-Lot	Contaminated Site List ID	Start Date	Duration	Final Remediation	Closed	Well Restriction Area	Groundwater Classification	Depth (ft)	Acres	Benzene	Methyl Tertiary Butyl Ether	t-Butyl Alcohol	Naphthalen	Volatile Organic contaminants
394	North Hunterdon High School			NJD980755151	Apr. 18, 1995	1	Yes	No	Yes	II-A	0	0.02428	Yes			Yes	
939	Hess Service Station #30305	2,000	70-12	NJC876004185	Sept. 03, 1996	Indeterm.		No	Yes	II-A	70	1.28783	Yes	Yes	Yes	Yes	Toluene, ethylbenzene, xylenes
1018	NJ Water Supply Authority	2,000	68-15	NJL600179360	Feb. 04, 1997	7		No	Yes	II-A	49	0.45031	Yes	Yes	Yes		Xylenes

Clinton Township Natural Resource Inventory - Contaminated Site List

ID	Name	Address	Site ID	Remediation Bureau	Case Status	Case Status Date	Remedial Level	Remedial Level ID	Classification Exception Area (CEA)	CEA Status	ABC
120636	206 POTTERSTOWN ROAD	206 POTTERSRTOWN RD	158701	BFO-N	Assigned to Program	6/10/2002 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
91854	2 LYNNWOOD DR	2 LYNNWOOD DR	G000043285	BFO-N	Assigned to Program	4/20/2000 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
179727	3 BIRCH LANE	3 BIRCH LN	235468	BFO-N	Assigned to Program	8/25/2004 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
164865	41 CENTER STREET	41 CENTER ST	216680	BFO-N	Assigned to Program	11/24/2003 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
164809	46 SAND HILL ROAD	46 SAND HILL RD	216623	BFO-N	Assigned to Program	11/18/2003 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
45866	Agway Petroleum Facility	54-64 RT 22	30496	BFO-N	Assigned to Program	12/30/1996 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
45866	AGWAY PETROLEUM FACILITY (FORMER)	54-64 RT 22	30777	BFO-N	Assigned to Program	12/30/1996 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
68495	A R CASELLA ESTATE PROPERTY	NASSAU RD	G000025232	BCM	Assigned to Program	3/9/2001 0:00	C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW	C3	None		A: Sites with On-Site Sources of Contamination
6706	CINCINNATI GEAR CO PLANT 3	CHERRY ST	3629	BNCM	Assigned to Program	10/11/1989 0:00	C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW	C3	None		A: Sites with On-Site Sources of Contamination
45866	CLINTON NJ RELAY	54 TO 64 RTE 22	5136	BFO-N	Assigned to Program	12/30/1996 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
22656	ENERGY KINETICS INC	MOLASSES HILL RD	25543	BSCM	Assigned to Program	10/12/2000 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
15420	EXXON STORE 3-6831	RTE 22 E	8651	BSCM	Assigned to Program	7/13/2000 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	Ongoing	5/23/2000	A: Sites with On-Site Sources of Contamination
6786	HESS STATION 30305	1746 RT 31	8411	BSCM	Assigned to Program	9/3/1996 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	Ongoing	9/3/1996	A: Sites with On-Site Sources of Contamination
42981	MENDHAM GARDEN CENTER	18 RTE 31	4290	BFO-N	Assigned to Program	2/18/1997 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
79355	POST OFFICE LEBANON BOROUGH	121 MAIN ST	G000036925	BFO-N	Assigned to Program	2/24/1999 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
15429	RED HORSE SHOPPERS INC	RTE 31 & PAYNE RD	2507	BCM	Assigned to Program	7/23/1999 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
15428	SPRUCE RUN ADMINISTRATION BUILDING	RTE 31	7043	BOMM	Assigned to Program	1/31/2003 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	Ongoing	3/7/2001	A: Sites with On-Site Sources of Contamination
175689	121 DREAHOOK ROAD	121 DREAHOOK RD	230284	BFO-N	Assigned to Program	6/3/2004 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
88596	26 COKESBURY RD	26 COKESBURY RD	G000062511	BFO-N	Assigned to Program	8/22/2001 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
167647	38 SAND HILL ROAD	38 SAND HILL RD	220433	BFO-N	Assigned to Program	1/23/2004 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
183733	3 WEIMER ROAD	3 WEIMER RD	240334	BFO-N	Assigned to Program	11/16/2004 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
61011	APM MANAGEMENT INC	1747 RT 31 S	94236	BFO-N	Assigned to Program	12/11/2003 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
80276	KEYSTONE FABRICATING INCORPORATED	37 MOLASSES HILL ROAD	G000042769	INS	NFA-E (Limited Restricted Use)	8/28/1998 0:00			None		C: Closed Sites with Restrictions
180313	LEBANON SERV STA	1239 E RT 22	774	BSCM	Assigned to Program	9/17/2002 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
18913	LEBANON SUNOCO SERVICE STATION	1370 RT 22	8656	BSCM	Assigned to Program	4/20/2000 0:00	C2: Formal Design - Known Source or Release with GW Contamination	C2	None		A: Sites with On-Site Sources of Contamination
61011	MOBILE SERVICE STATION	1747 RT 31 S	217719	BFO-N	Assigned to Program	12/11/2003 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination
27314	PRO CHEVROLET	RD 2 13 RT 31	4562	BFO-N	Assigned to Program	12/18/2003 0:00	C1: No Formal Design - Source Known or Identified-Potential GW Contamination	C1	None		A: Sites with On-Site Sources of Contamination

Level of site complexity. Based on the Site Remediation Program's 1989 Case Assignment Manual. It is the intent of the Site Remediation Program that remedial levels be determined for the overall degree of contamination at a site recognizing that individual areas of concern may involve remedial

B- remedial level associated with emergency response, simple removal activities of contaminants usually no impact to soil or GW.

C1 remedial levels are associated with simple sites one or two contaminants localized to soil and the immediate spill or discharge area.

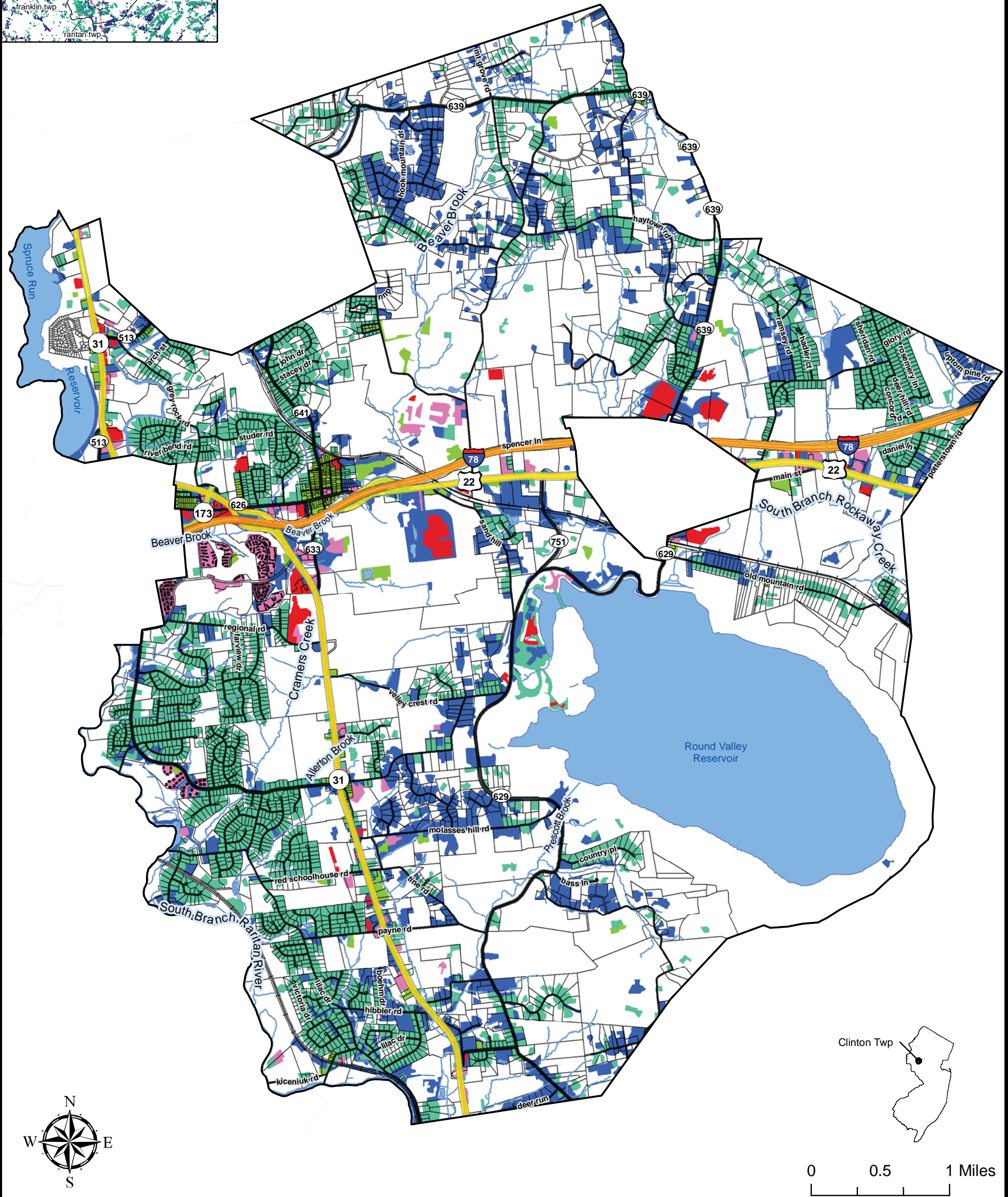
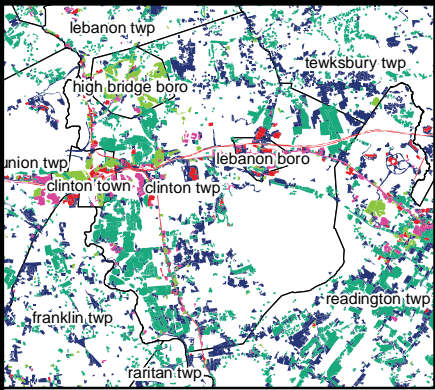
C2 remedial levels are associated with more complicated contaminant discharges, multiple site spills and discharges, more than one contaminant, with both soil and GW impacted or threatened.

C3 remedial levels are associated with high complexity and threatening sites. Multiple contaminants some at high concentrations with unknown sources continuing to impact soils, GW and possibly surface waters and potable water resources. Dangerous for direct contact with contaminated

D- Same conditions as C3 except that D levels are also usually designated Federal "Superfund Sites".

Definition Source:

NJDEP/SRP



Interstate	Streams	Impervious Surface 5% - 10% 10.1% - 25% 25.1% - 50% 50.1% - 75% 75.1% - 100%
County	Lakes	
US/State	Clinton Twp	
Local	Parcels	
Rail Roads		

Clinton Township

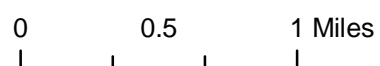
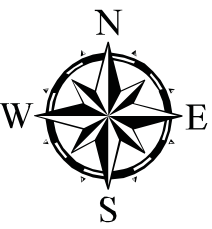
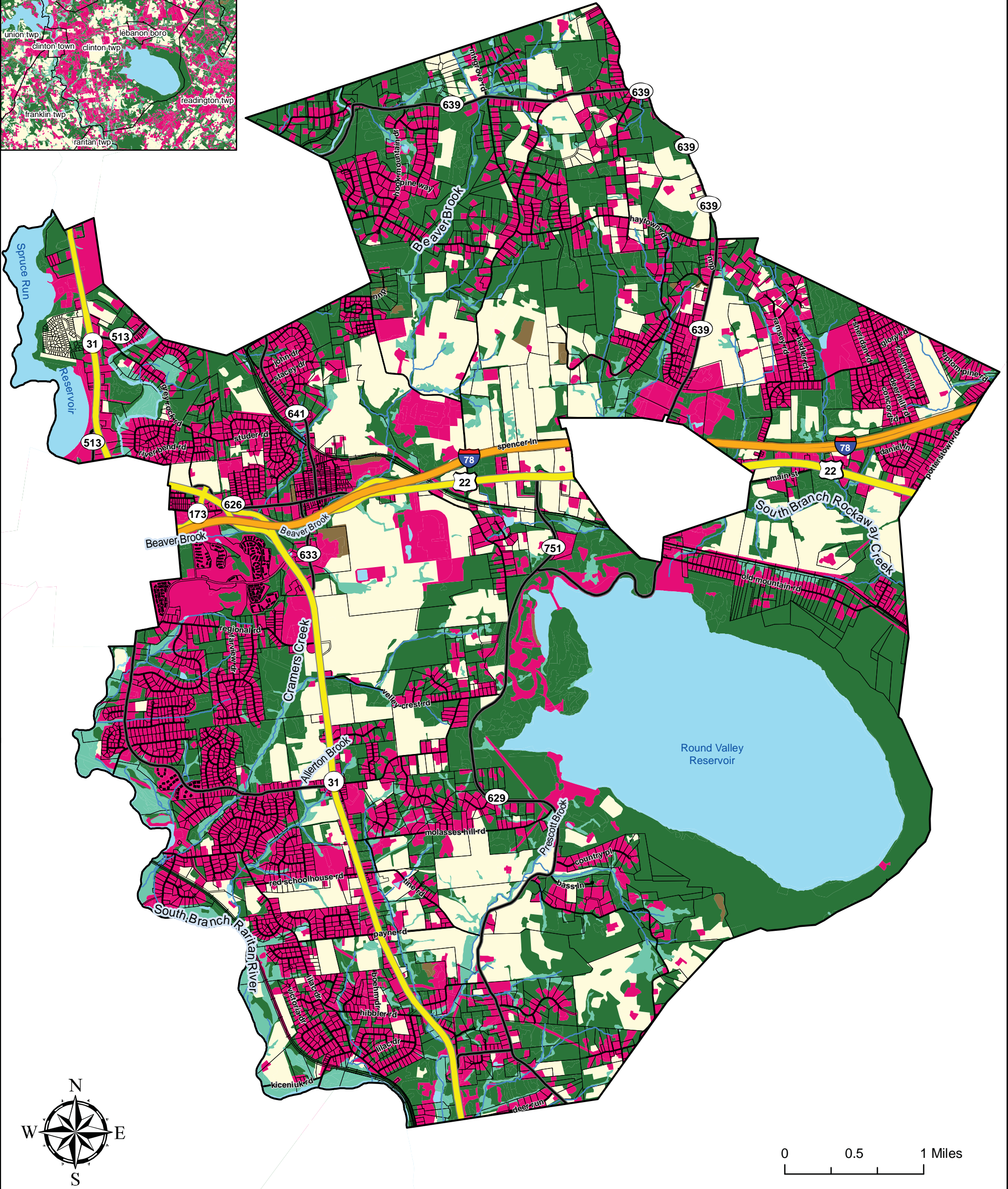
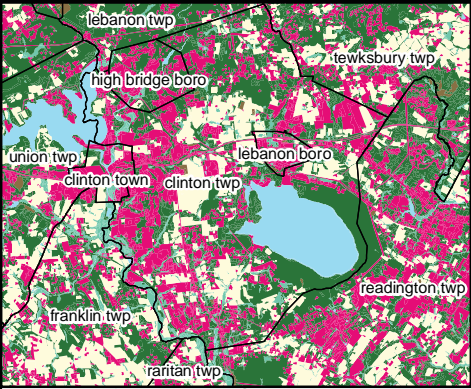
Natural Resources Inventory

Impervious Surface

Upper Raritan Watershed Association
GIS Department
11-15-2007
Scale: 1:44,000

Source:
Impervious Surface - (2002) NJDEP
Streams - (2007) Highlands Streams Layer
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

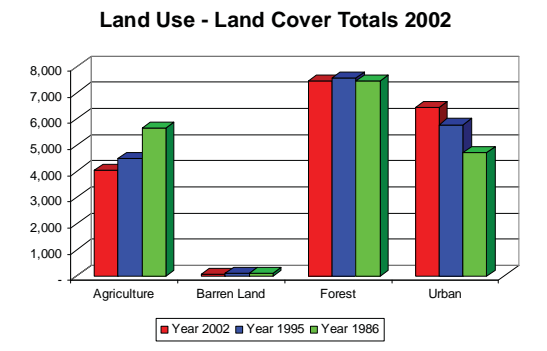
- Rail Roads
- Streams
- Interstate
- County
- US/State
- Local
- Clinton Twp
- Parcels

Land Use - Land Cover

- Agriculture
- Barren Land
- Forest
- Urban
- Water
- Wetlands

Agriculture	4,032.51	31.48
Barren Land	69.58	2.98
Forest	7,456.97	23.12
Urban	6,430.53	1,278.86
2002 Total	17,989.59	1,336.44

Estimated Values



Clinton Township
Natural Resources Inventory
Land Use - Land Cover

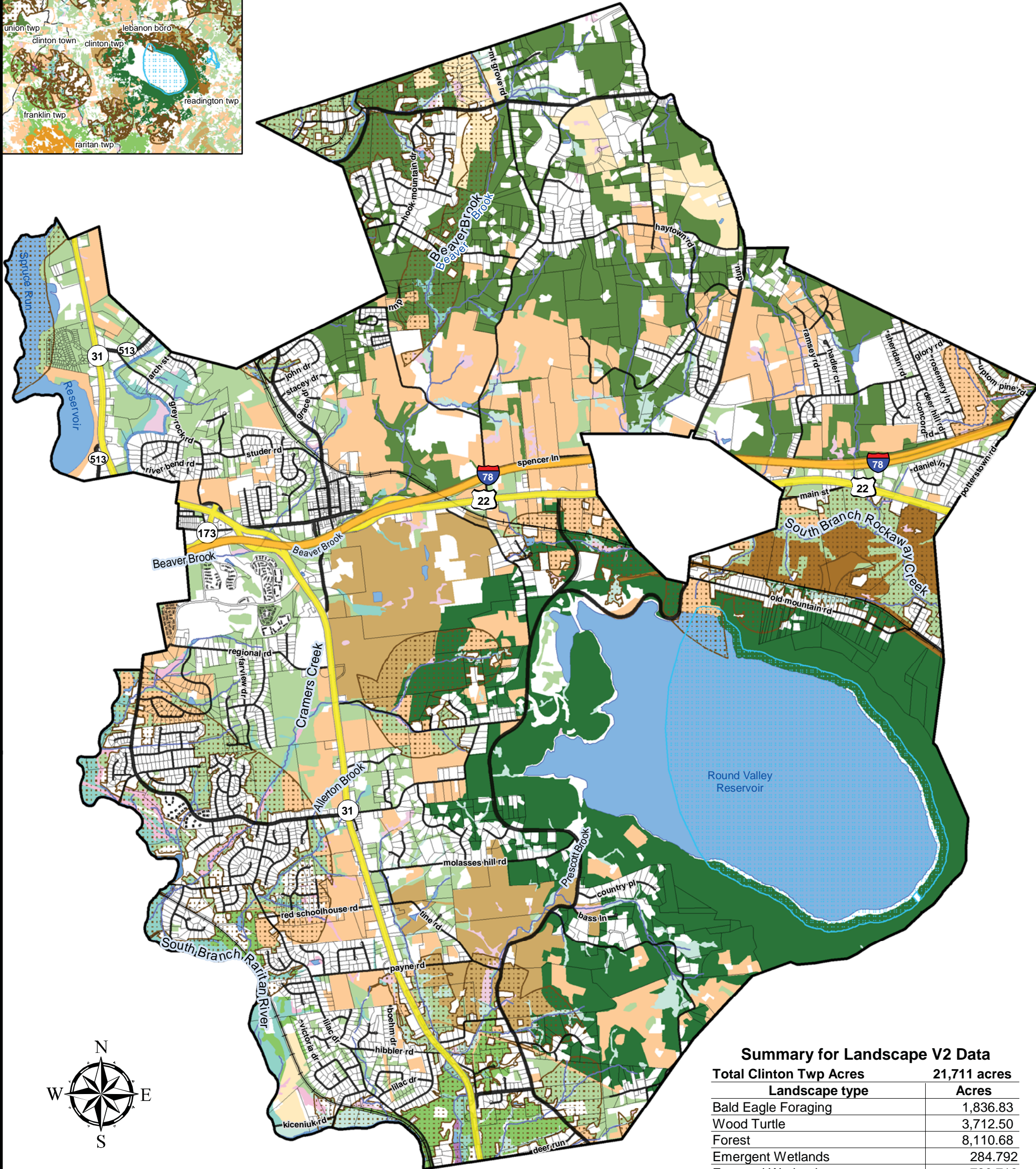
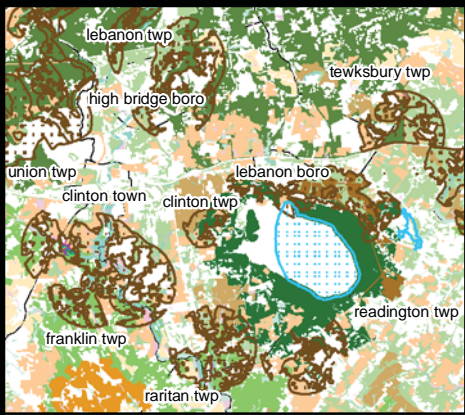


Upper Raritan Watershed Association
GIS Department
10/24/2007
Scale: 1:44,000



Source:
Land Use - Land Cover - (2002) NJDEP
Parcels - (2004) Hunterdon County
Roads - (2007) NJDOT
Rails Roads, Streams, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007

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Summary for Landscape V2 Data	
Total Clinton Twp Acres	21,711 acres
Landscape type	Acres
Bald Eagle Foraging	1,836.83
Wood Turtle	3,712.50
Forest	8,110.68
Emergent Wetlands	284.792
Forested Wetlands	780.713
Grassland	4,480.02
Total Landscape Data Acreage	19,205.54

Legend

Clinton Twp

Interstate

County

US/State

Local

Rail Roads

Streams

Lakes

Parcels

Bald Eagle Foraging

Wood Turtle

Emergent Wetland
RANK

Suitable Habitat (1)

Priority Species (2)

State Threatened (3)

State Endangered (4)

Federal T and E (5)

Forested Wetland
RANK

Suitable (1)

Priority Species (2)

State Threatened (3)

State Endangered (4)

Federal T and E (5)

Forest
RANK

Suitable (1)

Priority Species (2)

State Threatened (3)

State Endangered (4)

Federal T and E (5)

Grassland
RANK

Suitable (1)

Priority Species (2)

State Threatened (3)

State Endangered (4)

Federal T and E (5)



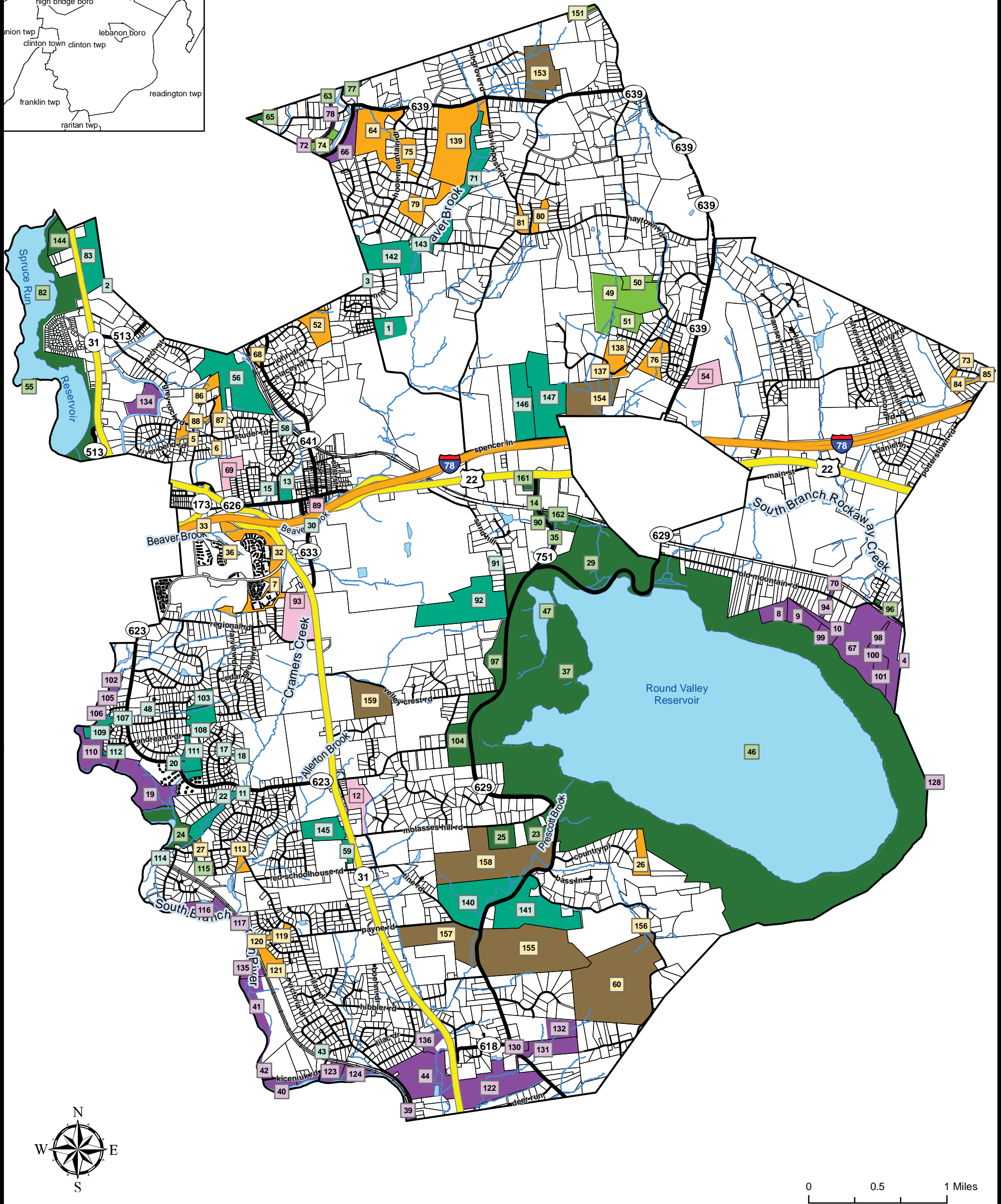
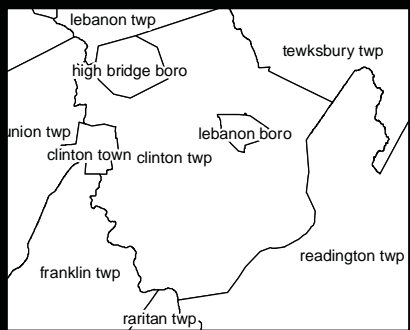
Clinton Township

Natural Resources Inventory
Landscape Map

Upper Raritan Watershed Association
GIS Department
10/24/2007
Scale: 1:50,000

Source:
Landscape V2 Data - (2004) NJDEP, ENSP
Parcels - (2004) Hunterdon County
Roads - (2007) NJDOT
Rails Roads, Streams, 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.



- | | |
|-------------|---|
| Clinton Twp | Parcels |
| Interstate | Clinton Twp Open Space |
| County | Board of Education |
| US/State | County |
| Local | Municipal |
| Rail Roads | Non-Profit |
| Lakes | Private, Common-Owned Open Space |
| Streams | Private, Farmland Conservation Areas |
| | State, State Parks and Preserved Open Space |

Clinton Township

Natural Resources Inventory

Open Space



Upper Raritan Watershed Association
GIS Department
7-27-2007
Scale: 1:44,000

* Please see report for details on Open Space in Clinton Twp.

Source:

Open Space -

- * Hunterdon County Open Space (2007)
- * New Jersey Conservation Foundation (2005)
- * State Open Space (2004)
- * Hunterdon County Preserved Farmland (2003)
- * ROSI database as of 8/20/2007
- * Clinton Twp Preserved Parcel Summary 3/2007

Parcels - (2004) Hunterdon County
Streams - Highlands Council (2006)
Roads, Rail Roads, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007

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Clinton Township Natural Resources Inventory

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Clinton Township Natural Resources Inventory Summary

A Natural Resources Inventory, also known as an Environmental Resources Inventory, is a collection of information that documents the environmental resources and constraints of an identified region. Through maps and text, the data is portrayed objectively to depict the condition of natural resources and related issues in order to provide a foundation for decision-making. The Natural Resource Inventory can be used as a reference and guide by elected officials, the Environmental Commission, the Planning Board, the Zoning Board, engineers, planners, and other personnel concerned with township issues. The enclosed documents and maps comprise an addendum to Clinton Township's existing Natural Resource Inventory prepared in 2002 and will serve to update current inventory data as well as summarize these additions.

Within the Highlands region of New Jersey, Clinton Township resides in Hunterdon County and contains lands in both the South Branch and Upper Raritan Watersheds. While land use has been greatly influenced by the existence of several major transportation routes within the township, including Route 78, Route 22, and Route 31, the Inventory shows a variety of land use types ranging from rural farmland and forests to dense residential and commercial developments. Due to this diversity of conditions, the use of the Natural Resource Inventory will greatly assist township personnel in assessing appropriate protections and uses of specific locations within the township.

The **2002 Aerial Photographs map** shows the regional landscape including natural cover. The document also depicts water bodies, Hunterdon County parcel data, and improvements such as public roadways and railroads, all of which can be found on each map in the Natural Resource Inventory. The Aerial Photographs map will be updated with 2006 data when it becomes available.

The **Land Use-Land Cover map** elaborates on the information provided in the aerial photographs by categorizing the landscape by its predominant use and characteristics. In addition to the features provided on the Aerial Photographs map, this document distinguishes between agricultural, barren, and urban landscapes while also showing the location of water bodies, wetlands, and forests.

Forested areas followed by other undeveloped natural landscapes best facilitate recharge of groundwater aquifers by absorbing precipitation and runoff at the earth's surface. The **Prime Ground Water Recharge Area map** not surprisingly reflects the forested areas shown on the aerial photos and Land Use-Land Cover maps and identifies those locations within the township that most efficiently provide 40 percent or more of the total recharge volume for the subwatershed.

Prime groundwater recharge areas tend to be associated with areas of low impervious surface cover as such impervious surfaces do not allow water to penetrate to the soils below. The **Impervious Surface map** shows the percentage of impervious cover by land use type calculated from the Land Use-Land Cover data.

When impervious surface percentages exceed 10 percent, subwatersheds, also referred to as HUC 14s due to their identification by a 14 digit Hydrologic Unit Code, experience impairment. The **HUC 14 Impervious Surface map** recognizes the areas within the township that are at risk of impairment due to a mean value for impervious coverage that surpasses this threshold as well as those that have not yet exceeded this measure.

While providing a multitude of benefits, preserved lands can improve groundwater recharge and reduce the negative impacts of runoff associated with high impervious surface coverages. The **Open Space map** complements the previous documents by identifying parcels that have already been protected. These properties have also been categorized by the entity responsible for preserving the property as preservation may serve a variety of purposes depending on the intent of the proprietor or easement holder. More information regarding each open space parcel can be found in the reports identified by the number on the lot.

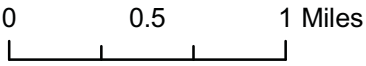
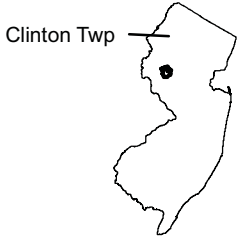
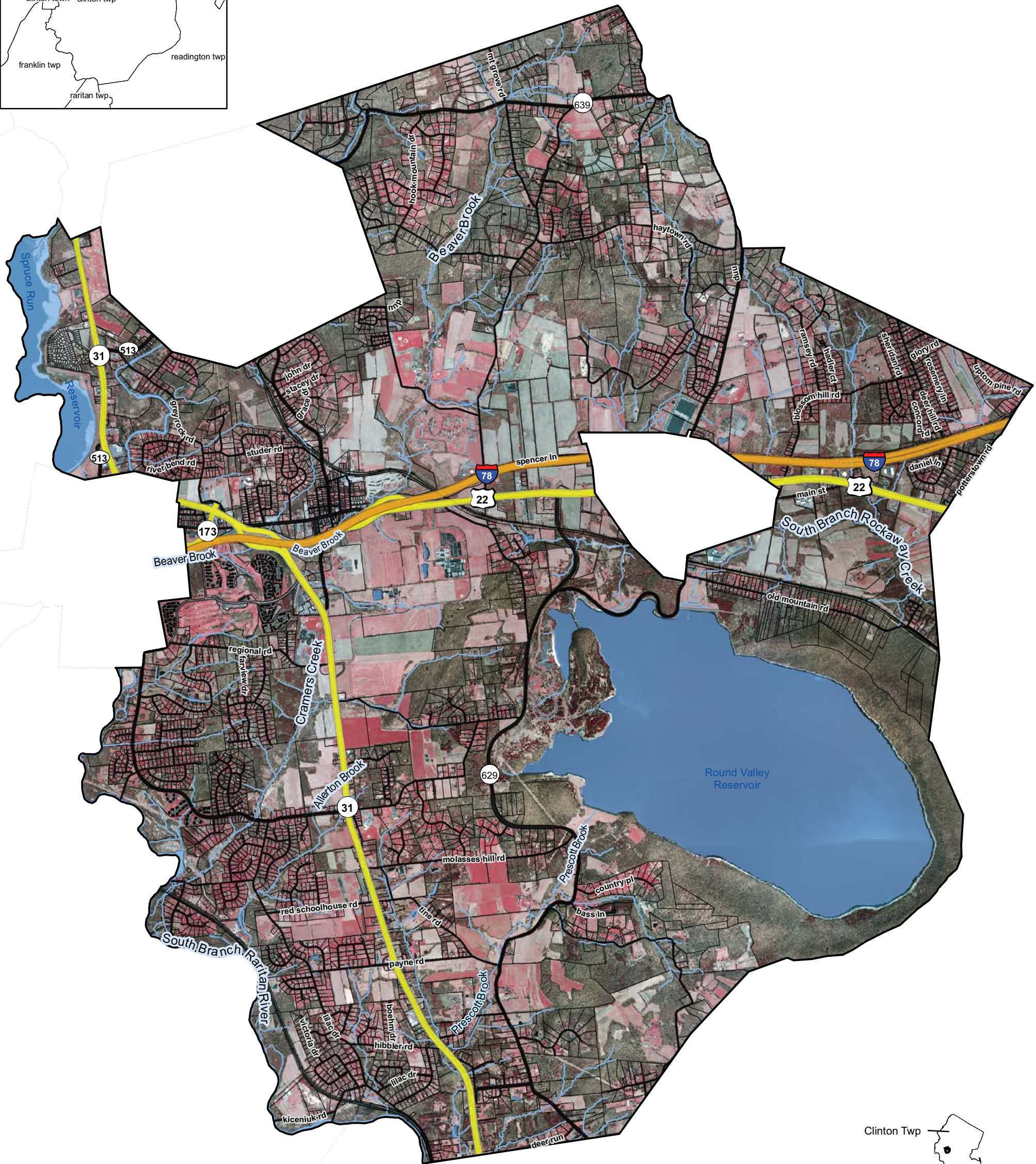
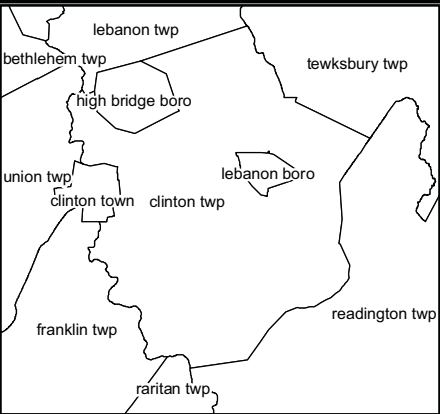
Just as preserved lands provide a variety of benefits, the Highlands Water Protection and Planning Act recognized the importance of the Highlands region of New Jersey as a source of drinking water for millions of residents as well as a repository of critical natural resources. As a result of this legislation, the Highlands Preservation and Planning areas were designated and are depicted on the **Highlands Boundary map**. While the majority of Clinton Township resides in the Planning Area, small portions of the north and west are subject to the restrictions and regulations of the Highlands Preservation Area.

All water courses within the Highlands Preservation Area are subject to 300 foot buffers, and this fact is reflected in the inset map on the **Surface Water Quality Standards map**. This map also shows all streams in the township and categorizes them by their state classification which is indicative of not only designated uses for that water course, but also antidegradation criteria. The buffer restrictions, as outlined in the Stormwater Management Rule (N.J.A.C. 7:8), the Flood Hazard Area Control Act rule (N.J.A.C. 7:13), and the proposed amendments to the Surface Water Quality Standards rule (N.J.A.C. 7:9B), are mapped to visually illustrate which lands adjacent to water courses in the township are subject to development restrictions.

In addition to these rules, current policy implementation in the Highlands Region depends greatly on the location of existing infrastructure as well as service areas. The Inventory includes a map of **Highlands Existing Areas Served** in Clinton Township. This map shows not only the location of current infrastructure installed for the purpose of potable water or sanitary sewer service, but also the region for which these services may be provided.

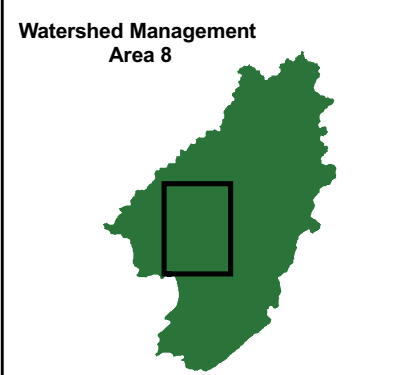
The provision of the **Day Care & Contaminated Sites map** also improves policy implementation by showing the proximity of day care facilities to known contaminated sites. While each site is further categorized by a remedial level, a more detailed report can be obtained by using the identification number associated with the site.

All of the maps provided in the Natural Resource Inventory are intended for use with the existing Inventory for Clinton Township. For future map updates as well as additional information displays, contact the Upper Raritan Watershed Association.



- | | |
|-------------|------------|
| Clinton Twp | Rail Roads |
| Interstate | Streams |
| County | Lakes |
| US/State | Parcels |
| Local | |

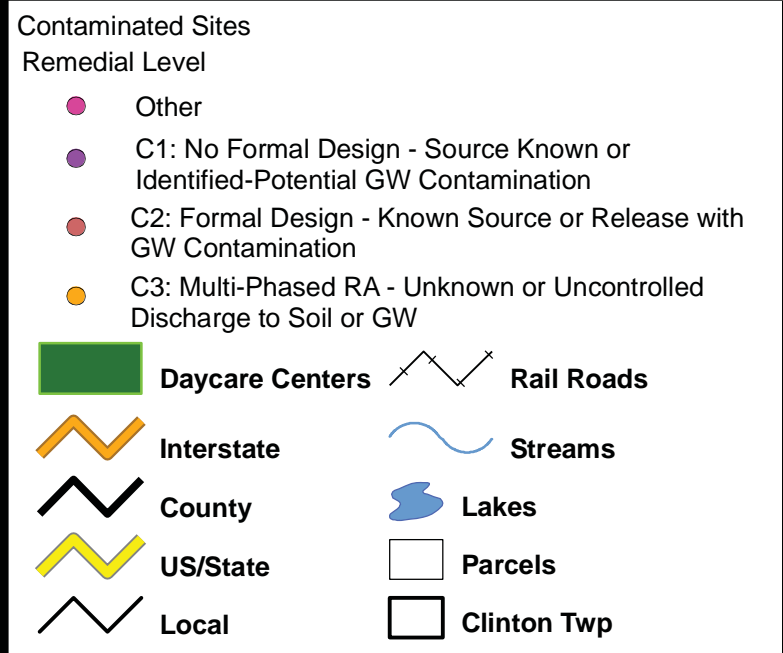
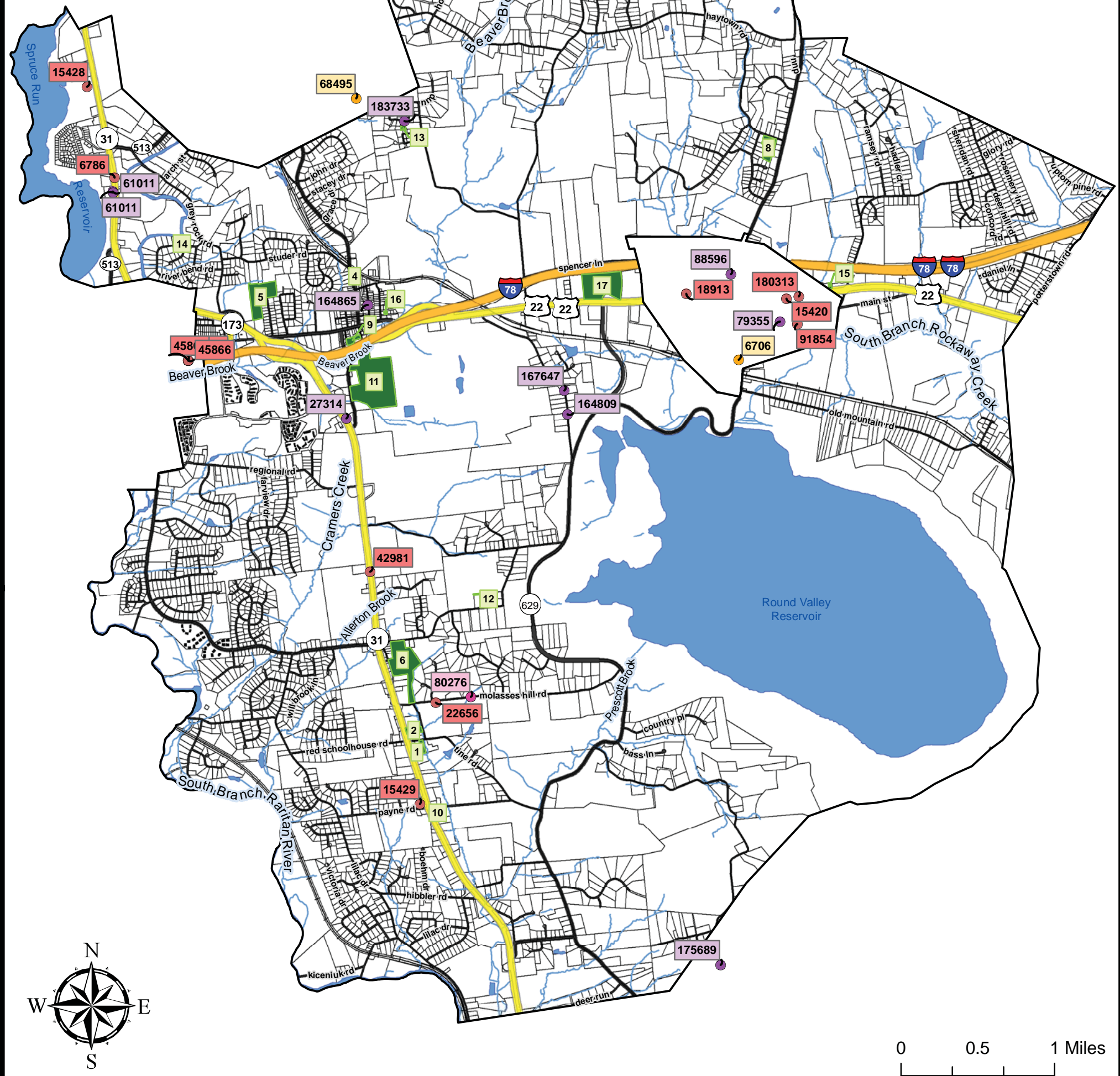
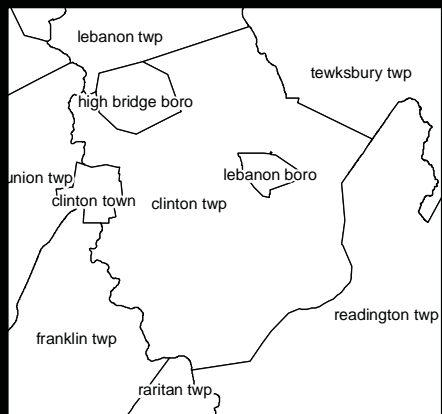
Clinton Township
Natural Resources Inventory
2002 Aerial Photographs



Upper Raritan Watershed Association
GIS Department
11-15-2007
Scale: 1:43,000

Source:
Aerials - (2002) NJDEP
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Streams, 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.



Clinton Township

Natural Resources Inventory Day Care & Contaminated Sites



Upper Raritan Watershed Association
GIS Department
11-15-2007
Scale: 1:44,000

Source:
Contaminated Sites - NJDEP (2005)
Groundwater Contamination - NJDEP CKE (2007)
Daycare Centers - Clinton Twp list
Streams - NJ Highlands Council (2007)
Parcels - (2004) Hunterdon County
Roads, Rails Roads, Lakes
and Municipal Boundary - Downloads
from Hunterdon County 1/2/2007

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