

Town of Tilton Natural Resources Inventory

Tilton,
New Hampshire

Prepared for: Town of Tilton
257 Main Street
Tilton, New Hampshire
(603) 286-4425

Prepared by **VHB**/Vanasse Hangen Brustlin, Inc.
Kilton Road, Six Bedford Farms Drive, Suite 607
Bedford, New Hampshire
(603) 644 0888

February 2007

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Table of Contents

Introduction 3

 Introduction 3

GIS Analyses and Maps 4

 Base Map 4

 Land Cover 4

 Historic and Cultural Features 7

 Wildlife Habitat 8

 Water Resources 9

 Soils and Farmlands 13

 Tax Map and Zoning 16

 Conservation 16

 Conclusions 17

References 18

Figures

Figure 1 Percent composition of forest type
Figure 2 Percent composition of habitat/community types and land use

Tables

Table 1..... Land cover
Table 2.....Habitat/community types and land use
Table 3.....Significant historic and cultural features
Table 4..... Potential contamination sites
Table 5..... Soil types
Table 6..... Conservation lands

Resource Maps

Map 1..... Base Map
Map 2.....Land Cover/Land Use
Map 3.....Historic/Cultural Features
Map 4..... Unfragmented Lands
Map 5.....Open Habitat and South-facing Slopes
Map 6.....Co-occurrence Map
Map 7.....Water Resources
Map 8A.....Soil Types
Map 8B Important Farmland Soils
Map 9.....Active Farmland
Map 10..... Tax Parcels and Zoning
Map 11.....Conserved Public Lands

1

Introduction

This report details the findings of the 2005-2006 Natural Resources Inventory (NRI), prepared by Vanasse Hangen Brustlin, Inc. (VHB) for the Town of Tilton, New Hampshire. The goal of this project is to provide a geo-based inventory of the resources within the town, to be summarized primarily as map information using a GIS platform.

The purpose of this NRI is to identify important natural resources through description and mapping. The NRI will identify areas of high ecological value and will examine relationships between land use in the Town of Tilton and the natural resources within the vicinity.

This descriptive report will accompany the GIS information. Methods for acquiring data and guidelines for completing an NRI were adapted from the UNH Cooperative Extension's 2001 publication: *Natural Resources Inventories: A Guide for New Hampshire Communities and Conservation Groups*. The NRI completed for Chichester, NH by The Society for the Protection of New Hampshire Forests (2003) was also used for reference.

Tilton is located in central New Hampshire in Belknap County, covering approximately 7,638 acres. It is bisected by Interstate 93 (Styles Bridge Highway) and is located with Franklin to the west, Belmont to the east, Northfield to the south, and Sanbornton to the north. The town lies to the east of the headwaters of the Merrimack River and southwest of Lake Winnepesaukee. The upper portion of the Winnepesaukee River forms the southern border of the town with New Hampshire Routes 3 and 11 running parallel. Major surface waters in Tilton include the Winnepesaukee River, Packer Brook, Hunt Brook, Gulf Brook, and the western half of Silver Lake and the western third of Winnisquam Lake, both of which extend into Belmont. Small wetlands throughout the Town of Tilton provide complex wildlife habitats. The following sections describe these resources in more detail.

2

GIS Analyses and Maps

2.1 Base Map

A Base Map serves to familiarize the reader with the study area (**Map 1**). It is important for showing site location and orientation of key features. Most of the maps included in this inventory use aerial photographs as base layers in order to give a clear view of the landscape. The Base Map uses a geo-referenced ortho-photo of the entire Town of Tilton. Wetlands are also included in the view to give a general sense of topography and drainage.

The base map becomes the foundation for the other maps included in this NRI. The feature labels for streams, water bodies, state highways, and town roads shown on the base map are maintained on all of the resource maps for orientation purposes. The same view and scale are also used for all maps to make reference easier from one to another. An insert of the State of New Hampshire is provided in the base map only, showing the geographical location of the Town of Tilton.

Looking at the base map, the reader can draw some generalized conclusions about the study area. Regions of business or residential development can be easily seen on the ortho-photo background, as can forested areas and cleared/open lands. Even before reviewing the **Land Cover** section of this NRI, a sense of land use type and relative extent is immediately perceptible.

2.2 Land Cover

Tilton's land cover types, as reported by the NH Fish and Game, are listed below in **Table 1**. These have been summarized in **Map 2**. In looking at the map, it is apparent that most of the town's development has occurred along the Winnepesaukee River. The location of this development is tied to Tilton's coming of age as a mill town at the turn of the century. For more information on Tilton's past, see the "**Historic and Cultural Features**" section.

Table 1. Land cover in the Town of Tilton, NH.

Cover Type	Area (SF)	Area (AC)	Percent Composition
Residential/Commercial/Industrial	20627080.05	473.53	5.9
Transportation	22775707.41	522.86	6.85

Row Crops	914569.98	21.00	0.27
Hay/Pasture	40907312.35	939.10	12.30
Beech/Oak	38844394.01	891.74	11.68
Paper Birch/Aspen	672932.87	15.45	0.20
Other Hardwoods	5166556.42	118.61	1.55
White/Red Pine	45845418.29	1052.47	13.78
Spruce/Fir	1359748.34	31.22	0.41
Hemlock	11211493.97	257.38	3.37
Mixed Forest	77927342.97	1788.97	23.42
Open Water	23645077.91	542.82	7.11
Forested Wetland	1565512.57	35.94	0.47
Open Wetland	9387939.77	215.52	2.82
Other Cleared	31850390.68	731.18	9.57

Source: New Hampshire Fish & Game Course Filter Analysis of Potentially Significant Wildlife Habitats. Corrections have been made to the calculated area of 'Residential/Commercial/Industrial' land cover.

Today, Tilton remains mostly undeveloped, with approximately 65% of the land area still with natural cover. Approximately 55% of the Town is forested (totaling 4,192 acres; **Table 2**), of which mixed forest represents the greatest fraction (**Fig. 1**).

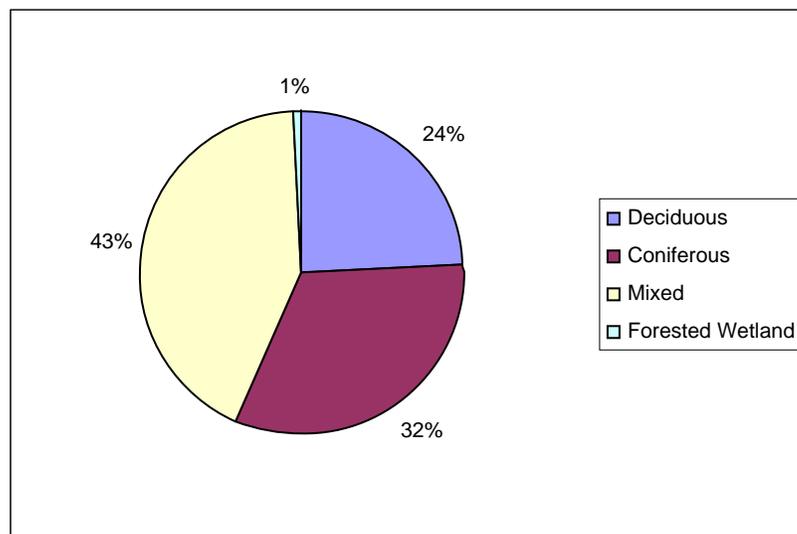


Figure 1. Percent composition of forest type in the Town of Tilton, NH.

Agricultural fields and other open habitat cover approximately 22% of the town (totaling 1691 acres; **Table 2**). The Farmland/Open Habitat areas represented in **Map 2** include the following classes from the 2001 NH Land Cover Assessment data (as reported in the NHFG Course Filter Analysis): *Row Crops, Hay/rotation/permanent pasture, Fruit orchards, Disturbed, and Cleared/other open*. Wetlands and open water cover approximately 10%.

Developed land, including structures and roads, is the smallest land use in Tilton representing only about 13% or approximately 996 acres of the town's area.

Table 2. Habitat/community types and land use in the Town of Tilton, NH.

Cover Type	Area (SF)	Area (Acres)
Deciduous Forest	44683883.30	1025.80
Coniferous Forest	58416660.60	1341.07
Mixed Forest	77927342.97	1788.97
Farmland/Open Habitat	73672273.01	1691.28
Developed Land	43402787.46	996.39
Wetland	10953452.34	251.46
Open Water	23645077.91	542.82

Source: New Hampshire Fish & Game Course Filter Analysis of Potentially Significant Wildlife Habitats. Corrections have been made to the calculated area of Developed Land.

In summary, Tilton supports a diversity of natural communities, as dominant land cover includes a range of forest types (55%) along with abundant farmland and open space (22%) providing important early successional habitat for wildlife. Wetland and open water habitats also exist within the town including palustrine, riverine, and lacustrine systems. Developed land represents only 13% of Tilton’s total land cover.

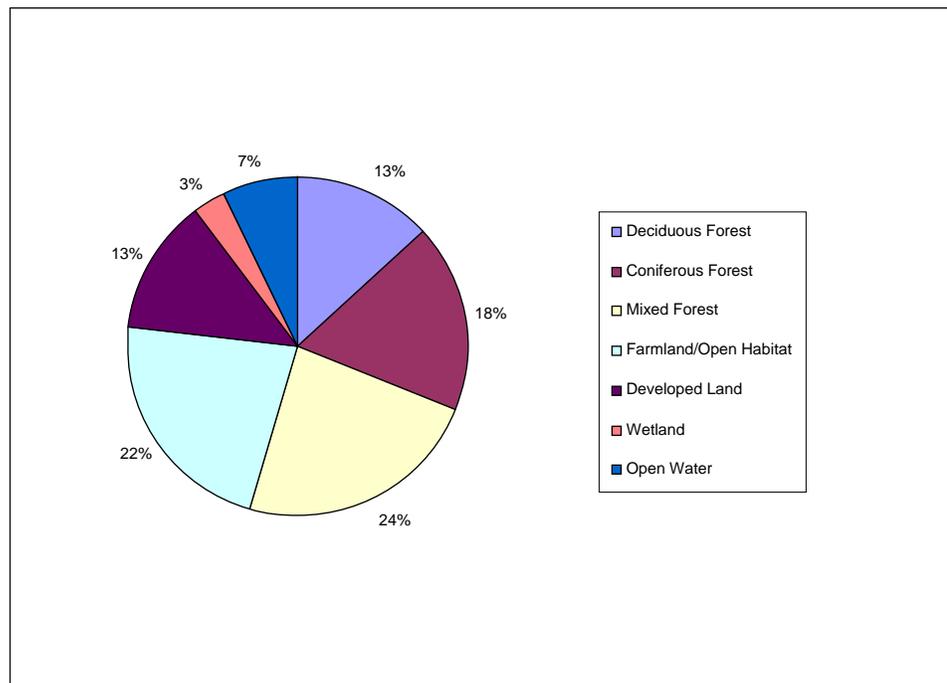


Figure 2. Percent composition of habitat/community types and land use in Tilton, NH.

2.3 Historic and Cultural Features

Historically, Tilton developed as a mill town, utilizing the tremendous resource of the Winnepesaukee River to drive industrialization. The river flowing along its southern border was invaluable for hydroelectric power and transportation. Textile production was Tilton's primary business and the invention and making of woolen "Tweeds" in 1859 by Nathaniel Homes brought the town prosperity. The manufacturing industry grew rapidly along the Winnepesaukee River. Today, land cover consists primarily of forest and farmland, but most developed areas still exist along the river. The center of commercial development, revolving around a complex of retail outlet stores, spreads out from a point where I-93 crosses the town line at Exit 20.

**Table 3. Significant historic and cultural features in Tilton, NH
National Register of Historic Places**

Map ID	Name	Street Reference
1	House by the Side of the Road	61 School Street
2	Charles E. Tilton Mansion	School Street
3	Tilton Island Park Bridge	Winnepesaukee River, East Main Street
4	Tilton Downtown Historic District	Roughly Main Street between Central and Bridge Streets
5	Lochmere Archaeological District (3 point locations)	West Shore of Winnepesaukee River and Silver Lake

Historic/Cultural Resources (Conservation Commission)

Map ID	Name	
6	Park Cemetery	West Main Street
7	Statue	West Main Street
8	Civil War Monument	West Main Street
9	Endless Belt Factory	West Main Street
10	Statue	Main Street
11	Statue	West Main Street
12	Cemetery	East Main Street
13	St. John's Cemetery	Route 132/Sanborn Road
14	Cemetery	Route 3 & 11/Laconia Road
15	Grange	Route 3 & 11/Laconia Road
16	Cemetery	Lancaster Hill Road and Bittersweet Lane
17	Cemetery	Sherryland Park Road
18	Mary Baker Eddy Historic House	Colby Road
19	Cemetery	Clark Road
20	Tin Corner	Clark Road and Winter Street
21	Cemetery	Winter Street
22	Cemetery	Range Road

Source: National Park Service National Register of Historic Places acquired from GRANIT and Town-recognized historic and cultural resources.

Historic and cultural features include unique, man-made pieces of Tilton's past. Point features were identified from the National Register of Historic Places (NRHP), provided by GRANIT. Other historic and cultural resources were identified by public comment and by the Tilton Conservation Commission. Table 3 below identifies the features depicted in **Map 3**.

As shown, the majority of these features exist along the Winnepesaukee River in Tilton's historic downtown, still functioning as the town center today.

2.4 Wildlife Habitat

Tilton's wildlife-related features are shown in Maps 4-6.

2.4.1 Unfragmented Lands

Human land use, such as the construction of buildings and the laying of roads, breaks up the natural landscape into smaller pieces, reducing forest interior habitat. In addition to the direct removal of habitat land, the quality of habitat around disturbed areas is also reduced. Evidence of this impact may be apparent either by a numerical response (decrease in abundance or population density) or a behavioral response (road avoidance) by wildlife (Forman et al. 2003). Less fragmented areas also support greater species diversity within the natural community since safe travel corridors are preserved. In addition, forest interior bird species have sufficient habitat size for nesting and rearing of young, and these areas provide safety from predators that are more common at the edge of habitats.

The Unfragmented Lands Map (**Map 4**) shows the degree of fragmentation existing in the Town of Tilton. By looking at the size of the blocks caused by fragmentation, one can make a rough estimate as to the extent of development in the town. On the map, unfragmented lands include blocks greater than 25 acres, and shading represents the level of fragmentation based on size and the ratio of area to perimeter. The darker the color, the less fragmented the habitat block.

According to the NH Fish and Game, unfragmented habitat mosaics were based on the 2001 NH Land Cover Assessment Data grid, as provided by GRANIT.

2.4.2 Open Habitat and South-facing Slopes

Tilton's wildlife features are shown in **Map 5** and **Map 6**. **Map 5** depicts open habitat and south-facing slopes as identified by the *New Hampshire Fish and Game Course Filter Analysis of Potentially Significant Wildlife Habitats*. Open habitat refers to agriculture, cleared, or other open and disturbed land cover classes. This early successional stage of development provides important habitat for many New Hampshire species. South facing slopes include any south or southwest facing slopes with a gradient of greater than 10%. These areas are preferred by wildlife,

especially in the winter, because they tend to be warmer due to more sunlight. The general locations of rare plants, wildlife, and natural communities are also illustrated on this map as “special status species.” These data were provided by the NH Natural Heritage Bureau. As listed in *Rare Plants, Rare Animals, and Exemplary Natural Communities in New Hampshire Towns* (NHB 2006), the Town of Tilton provides habitat to Bald Eagles (*Haliaeetus leucocephalus*) and Lake Whitefish (*Coregonus clupeaformis*). Map points have been shifted from their exact locations due to the data’s sensitive nature. Surface waters, state routes, and town roads are also included in this map, as they provide important edge habitats as well as hunting corridors for many species, including birds of prey, bats, and other predatory mammals.

2.4.3 Co-occurrences

A co-occurrence map (**Map 6**) is the product of overlapping habitat features. A score is assigned based on the number of overlapping features, in order to give a general sense of habitat value. In effect, a co-occurrence map identifies the areas that can potentially support the greatest species diversity (due to more diverse habitat). In **Map 6**, co-occurrence scores were calculated by the NH Fish and Game Department based on (1) riparian corridors and priority wetlands, (2) agriculture and cleared/other open land, (3) rare unique habitats, and (4) south facing slopes. A darker color represents more overlap and therefore a greater significance to wildlife.

The co-occurrence map overlies the NH Fish & Game’s Unfragmented Lands data layer. One disadvantage of looking strictly at co-occurrence data for the assessment of habitat value is that it greatly emphasizes the importance of riparian areas. Although these areas often do provide the most diverse and productive habitats, a co-occurrence analysis may comparatively undervalue important upland habitat which supports different communities. Unfragmented lands data used in combination with co-occurrence data may offer a more comprehensive representation of habitat value. For further explanation of unfragmented lands information and its applicability, see the previous “**Unfragmented Lands**” section.

2.5 Water Resources

The water resources map (**Map 7**) includes surface waters (rivers, streams, ponds, lakes), wetlands, public water supply outtakes, and private well sites. Map 7 also includes potential hazards to these water resources as well as locations of treatment facilities and pump houses. Well head protection areas are zones of protection shown as circles around public water supply sources. According to the NHDES Drinking Water Source Protection Program, these protected areas represent an estimated area of drainage from which groundwater and surface water will flow into the well under “severe pumping conditions.” The area of each circle of protection depends on substrate type. A volume dependent circle is used for most bedrock

wells. For sand and gravel wells, the area of flow is delineated based on site specific information.

The wetlands shown on the map incorporate four data layers (as provided by NH Fish & Game): NWI palustrine emergent, small wetland clusters, wetlands >5 acres, and riparian areas. The majority of these wetlands are associated with surface water features.

Stratified drift aquifers are also shown on **Map 7**. They are important as municipal and commercial water supplies because of their high water storage capacity and high transmissivity. Stratified drift aquifers are different from bedrock aquifers because they are made up of glacial and alluvial deposits of sand and gravel that readily allow vertical and horizontal subsurface movement of water.

Potential threats to ground water quality are indicated on **Map 7** as “groundwater hazards” and are listed in more detail in **Table 4**. Listings are referenced to the map by NHDES ID number. According to the NHDES, potential groundwater hazards include facilities that typically use, produce, handle, or store contaminants of concern. Although these facilities show up on the map as identical symbols, it is important to understand that they are only potential hazards. A release of contaminants may never occur as long as good management practices are used (NHDES). **Table 4** includes risk scores assigned by NHDES for each potential groundwater hazard in the Town of Tilton. The higher the score, the greater the threat to human health and the environment posed by the respective project type. Risk scores also identify the potential exposure pathways and receptors based on known information:

- 1 = Immediate risk to human health
- 2 = In wellhead protection area or within 1,000 feet of a well
- 3 = Free product or high level source
- 4 = Surface water impact
- 5 = Groundwater impact
- 6 = High concentration, alternative water available
- 7 = Low concentration, alternative water available
- 8 = No sources, no ambient groundwater quality standards violations onsite
- NDY = Not defined yet

Table 4. Potential contamination sites in Tilton, NH.

DESID	Site Name	Address	Potential Hazard Type	Status	Risk
174	FORMER TILTON LANDFILL/FIRING RANGE	ROUTE 3 (154 LACONIA RD)	Existing Landfill/ Landfill Closure	ACTIVE	8
175	INNOVATIVE PAPER TECH / IPT	MANVILLE RD	Unlined Wastewater Lagoon	ACTIVE	2
177	INNOVATIVE PAPER TECH / IPT	MANVILLE RD	Existing Landfill/ Landfill Closure	INACTIVE	8
10174	SUZUKI MARINE (FORMER SILVESTROS TIRE)	RTE 3	Oil Spill or Release	INACTIVE	8
10182	FLUFFY'S ROAST BEEF AND CONVENIENCE STOR	545 LACONIA RD	Leaking Underground Storage Tank Project	ACTIVE	6
10185	PIKE INDUSTRIES INC 903	95 LACONIA RD	Underground Injection Control	INACTIVE	8
10191	TURCHIN JUNKYARD	FRANKLIN RD	Non-petroleum Related Contamination	ACTIVE	7
10193	TILTON-NORTHFIELD AQUEDUCT CO.	283 MAIN STREET	Leaking Underground Storage Tank Project	INACTIVE	8
10196	NEW ENGLAND TELEPHONE MANHOLE NO 3	WEST MAIN & WINTER STREETS	Leaking Underground Storage Tank Project	INACTIVE	8
10887	SMART FUNERAL HOME	FRANKLIN ROAD	Underground Injection Control	ACTIVE	2
10888	INNOVATIVE PAPER TECH / IPT	MANVILLE RD	Underground Injection Control	INACTIVE	8
10889	BARCO/QUALITY CONTRL	ROUTE 3	Underground Injection Control	ACTIVE	NDY
10891	TIBBETTS BROTHERS INC	132 MAIN STREET	Underground Injection Control	INACTIVE	8
10892	BIG APPLE CONVENIENCE STORE	148 MAIN ST	Leaking Underground Storage Tank;	INACTIVE, ACTIVE	7, 8
10893	MOBIL 17709	82 RTE 3	and Non-Petroleum Related Contamination	INACTIVE	8
11569	TILTON SAND & GRAVEL	SANBORN ROAD	Leaking Underground Storage Tank Project	INACTIVE	8
11570	PIKE INDUSTRIES INC 903	95 LACONIA RD	Leaking Underground Storage Tank Project	INACTIVE	8
12156	INNOVATIVE PAPER TECH / IPT	MANVILLE RD	Leaking Underground Storage Tank Project	INACTIVE	8
12157	JAYS MARINA	RTE 11	Leaking Underground Storage Tank Project	ACTIVE	8
12283	DREW'S WRECKER SERVICE	CLARK ROAD	Underground Injection Control	INACTIVE	8
12513	ERNIES AUTO SALES	90 EAST MAIN ST	Leaking Underground Storage Tank Project	INACTIVE	8
12629	NICKS AUTO SERVICE	RTE 3	Underground Injection Control	INACTIVE	8
12695	TILTON SCHOOL	SCHOOL STREET	Leaking Underground Storage Tank Project	INACTIVE	8
12795	MOHAWK GENERAL STORE	ROUTE 3 & 11	Leaking Underground Storage Tank Project	INACTIVE	8
13024	PIKE INDUSTRIES INC 903	95 LACONIA RD	Leaking Underground Storage Tank Project	INACTIVE	8
13025	PIKE INDUSTRIES INC 903	95 LACONIA RD	Leaking Underground Storage Tank Project	INACTIVE	8
13026	INNOVATIVE PAPER TECH / IPT	MANVILLE RD	Oil Spill or Release	INACTIVE	8
13027	WAL-MART STORES, INC.	ROUTE 3	Leaking Above ground bulk storage of motor fuel	INACTIVE	8
13028	MOONEY RESIDENCE	10 PROSPECT STREET	Leaking Residential or Commercial heating oil tanks	ACTIVE	8
13029	SUZUKI MARINE (FORMER SILVESTROS TIRE)	RTE 3	Non-hazardous, non-sanitary holding tank registration	INACTIVE	8
13211	TILTON QUICK MART	622 LACONIA RD	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
13369	TILTON SAND & GRAVEL	SANBORN ROAD	Underground Injection Control	ACTIVE	2
13370	TILTON DEPARTMENT OF PUBLIC WORKS	U.S. ROUTE 3, 154 LACONIA ROAD	Underground Injection Control	INACTIVE	8
13671	TILTON DEPARTMENT OF PUBLIC WORKS	U.S. ROUTE 3, 154 LACONIA ROAD	Leaking Underground Storage Tank Project	INACTIVE	8
13810	TILTON IRVING	90 LACONIA RD	Non-hazardous, non-sanitary holding tank registration	ACTIVE	8
14094	WILLIAM W FRANKS	290 MAIN STREET	Leaking Underground Storage Tank Project	ACTIVE	2
14163	NH VETERANS HOME	139 WINTER ST	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
14383	PIKE INDUSTRIES INC 903	95 LACONIA RD	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
14391	CUMBERLAND FARMS 2801	235 E MAIN ST	Leaking Underground Storage Tank Project	INACTIVE	8
14562	ROBERT LAPLANTE	31 NORTH WINDY RD.	Leaking Underground Storage Tank Project	INACTIVE	8
14821	LAKES REGION OUTLET MALL	RTE 3	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
15031	LAKES REGION INVESTMENT PARTNER LLC	322 WEST MAIN STREET	Leaking Underground Storage Tank Project	INACTIVE	8
15538	WINNISQUAM AUTO INC	491 LACONIA ROAD	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
15539	WINNISQUAM TRADING POST MARKET	1021 LACONIA ROAD	Underground Injection Control	ACTIVE	NDY
15540	CENTRAL N. H. TRACTOR CO INC	285 LACONIA ROAD	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
15601	TILTON SCHOOL	SCHOOL STREET	Underground Injection Control	INACTIVE	8
15602	OLD PILLSBURY MILL SITE	336 WEST MAIN STREET	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
15965	GAIL LAUZIÈRE	43 NORTH WINDY RD	Non-petroleum Related Contamination	ACTIVE	7
			Leaking Residential or Commercial heating oil tanks	INACTIVE	8

15966	CILLEY RESIDENCE	10 WINDSOR DR	Oil Spill or release	INACTIVE	8
15967	DREW'S WRECKER SERVICE	CLARK ROAD	Either contamination from an unknown source	ACTIVE	2
15968	MARTIN GREVIOR RESIDENCE	323 W. MAIN ST.	Leaking Residential or Commercial heating oil tanks	INACTIVE	8
15969	FORMER WALLINGFORD'S	307 W. MAIN ST.	Leaking Underground Storage Tank Project	INACTIVE	8
15970	TILTON PUBLIC WORKS FACILITY	ROUTE 3 AND WEST MAIN STREET	Non-hazardous, non-sanitary holding tank registration	ACTIVE	8
16345	VAVOLINE INSTANT OIL CHANGE	4 MANVILLE RD	Non-hazardous, non-sanitary holding tank registration	ACTIVE	2
16390	TILTON FORD CHRYSLER PLYMOUTH DODGE	40 E MAIN ST	Isolated groundwater sample with contamination	INACTIVE	8
17019	STAFFORD FOOD & BEVERAGE	311 MAIN ST	Leaking Underground Storage Tank Project	ACTIVE	7
17242	MARKET BASKET	US ROUTE 3 NH ROUTE 11	Non-hazardous, non-sanitary holding tank registration	ACTIVE	8
17243	AUTOSERVE OF TILTON	635 W MAIN ST	Leaking Residential or Commercial heating oil tanks	ACTIVE	7
17325	RICHARDSON	72 PATRICIA LANE	Underground Injection Control	ACTIVE	2
17466	212 LACONIA ROAD	212 LACONIA RD	Asbestos Contamination	ACTIVE	NDY
17467	FORMER QUIN-T PROPERTY	MANVILLE ROAD	Non-petroleum Related Contamination	ACTIVE	NDY
17482	TURCHIN JUNKYARD	FRANKLIN RD	Asbestos Contamination	ACTIVE	NDY
17525	JAYS MARINA	RTE 11	Leaking Underground Storage Tank Project	INACTIVE	8
17527	WHITE ROCK CO-OP	ROUTE 3	Either contamination from an unknown source	ACTIVE	8
17528	CUMBERLAND FARMS 2801	235 E MAIN ST	Leaking Underground Storage Tank Project	ACTIVE	3

Source: GRANIT (C_SITE/C_AREA/PROJ_TYPE)

Notes: "Status" refers to whether or not there is an active NHDES file on the potential contamination site.

"Inactive" denotes a closed NHDES file.

2.6 Soils and Farmland

The Soils Map (**Map 8a**) shows soil types within the Town of Tilton and adjacent areas as identified by the Merrimack and Belknap Counties Soil Survey (MBSS) produced by the USDA, Natural Resources Conservation Service (NRCS). Hydric soils are highlighted on the map. As indicated in the Notes on the map, these data are preliminary and are subject to change. The information presented here is a draft product of the NRCS and has been made available as a conditional interim release. Map unit symbols can be referenced to the descriptions given in **Table 5**. This table is included on the map, as well. **Map 8b** identifies important farmland soils, including Prime, Statewide, and Local designations. A fourth category of important farmland soils, Unique, is not represented by any soil types in Tilton.

Prime farmland is defined by the U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) as “land that has the best combination of physical and chemical characteristics” for agriculture. This includes land with these characteristics used for livestock or timber production but not land that is already urbanized or used for water storage (NRCS). Unique farmland is defined as “land other than prime farmland that is used for production of specific high-value food and fiber crops,” with such crops defined by the Secretary of Agriculture.

Farmland of statewide or local importance is defined as “farmland, other than prime or unique farmland, that is of statewide or local importance for the production of food, feed, fiber, forage, or oilseed crops” (NRCS). In some cases, farmland of statewide importance has additional qualifiers:

- Statewide (a) Designation: If the upper slope class limit of the soil map unit is between 9 and 15 percent then the areas of the soil map unit that exceed 8 percent slope do not qualify as important farmland. If the upper slope class limit exceeds 15 percent then the areas of the soil map unit that exceed 15 percent slope do not qualify as important farmland.
- Statewide (b) Designation: The soils in this soil map unit have a wetness limitation that may be difficult and/or unfeasible to overcome. Areas of this soil map unit do not qualify as important farmland if artificial drainage is not feasible.
- Statewide (c) Designation: Bedrock outcrops commonly cover more than 2 percent of the surface. Areas of this soil map unit will not qualify as important farmland if bedrock outcrops are extensive enough to prohibit efficient farming.

In **Map 9**, active farmlands providing open landscape have been digitized from 2003 ortho-photos. It should be emphasized that not all important farmland soils are currently in active farm use.

Table 5. Soil types found in Tilton, New Hampshire.

Map Unit Symbol	Map Unit Name	Farm Class
100	Udorthents, wet substratum	Not prime farmland
15	Searsport muck	Not prime farmland
166B	Marlow variant fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland
166C	Marlow variant fine sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
166D	Marlow variant fine sandy loam, 15 to 25 percent slopes	Farmland of local importance
167B	Marlow variant fine sandy loam, 3 to 8 percent slopes, very stony	Farmland of local importance
167C	Marlow variant fine sandy loam, 8 to 15 percent slopes, very stony	Farmland of local importance
167D	Marlow variant fine sandy loam, 15 to 25 percent slopes, very stony	Farmland of local importance
167E	Marlow variant fine sandy loam, 25 to 35 percent slopes, very stony	Not prime farmland
214A	Naumburg sand, 0 to 5 percent slopes	Not prime farmland
220A	Boscawen fine sandy loam, 0 to 3 percent slopes	Farmland of local importance
220B	Boscawen fine sandy loam, 3 to 8 percent slopes	Farmland of local importance
220C	Boscawen fine sandy loam, 8 to 35 percent slopes	Farmland of local importance
226B	Bice fine sandy loam, 3 to 8 percent slopes, very stony	Farmland of local importance
269B	Sunapee variant, 3 to 8 percent slopes, very stony	Farmland of local importance
295	Greenwood mucky peat	Not prime farmland
299	Udorthents, smoothed	Not prime farmland
347A	Lyme and Moosilauke soils, 0 to 3 percent slopes, very stony	Not prime farmland
347B	Lyme and Moosilauke soils, 3 to 8 percent slopes, very stony	Not prime farmland
35A	Champlain loamy fine sand, 0 to 3 percent slopes	Farmland of local importance
35B	Champlain loamy fine sand, 3 to 8 percent slopes	Farmland of local importance
35C	Champlain loamy fine sand, 8 to 15 percent slopes	Farmland of local importance
35E	Champlain loamy fine sand, 15 to 60 percent slopes	Not prime farmland
380C	Tunbridge-Lyman-Becket complex, 8 to 15 percent slopes, very stony	Farmland of local importance
395	Chocorua mucky peat	Not prime farmland
400	Udorthents, sandy	Not prime farmland
406	Medomak mucky silt loam, frequently flooded	Not prime farmland
442B	Monadnock variant, 3 to 8 percent slopes	Farmland of statewide importance
442C	Monadnock variant, 8 to 15 percent slopes	Farmland of statewide importance
443B	Monadnock variant, 3 to 8 percent slopes, very stony	Farmland of local importance
443C	Monadnock variant, 8 to 15 percent slopes, very stony	Farmland of local importance

		importance
443D	Monadnock variant, 15 to 25 percent slopes, very stony	Farmland of local importance
458B	Metacomet fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland
458C	Metacomet fine sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
459B	Metacomet fine sandy loam, 3 to 8 percent slopes, very stony	Farmland of local importance
459C	Metacomet fine sandy loam, 8 to 15 percent slopes, very stony	Farmland of local importance
461D	Woodstock-Millsite-Rock outcrop complex, 15 to 35 percent slopes	Not prime farmland
46B	Henniker fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland
46C	Henniker fine sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
46D	Henniker fine sandy loam, 15 to 25 percent slopes	Farmland of local importance
478B	Dixfield variant, 3 to 8 percent slopes	All areas are prime farmland
478C	Dixfield variant, 8 to 15 percent slopes	Farmland of statewide importance
479B	Dixfield variant, 3 to 8 percent slopes, very stony	Farmland of local importance
479C	Dixfield variant, 8 to 15 percent slopes, very stony	Farmland of local importance
47B	Henniker fine sandy loam, 3 to 8 percent slopes, very stony	Farmland of local importance
47C	Henniker fine sandy loam, 8 to 15 percent slopes, very stony	Farmland of local importance
47D	Henniker fine sandy loam, 15 to 25 percent slopes, very stony	Farmland of local importance
480B	Millsite-Woodstock-Henniker complex, 3 to 8 percent slopes, very stony	Farmland of local importance
480C	Millsite-Woodstock-Henniker complex, 8 to 15 percent slopes, very stony	Farmland of local importance
480D	Millsite-Woodstock-Henniker complex, 15 to 35 percent slopes, very stony	Not prime farmland
480E	Millsite-Woodstock-Henniker complex, 35 to 60 percent slopes, very stony	Not prime farmland
495	Ossipee mucky peat	Not prime farmland
500	Udorthents, loamy	Not prime farmland
549	Peacham muck, very stony	Not prime farmland
613	Croghan fine sandy loam, 0 to 5 percent slopes	Farmland of statewide importance
647A	Pillsbury fine sandy loam, 0 to 3 percent slopes, very stony	Not prime farmland
647B	Pillsbury fine sandy loam, 3 to 8 percent slopes, very stony	Not prime farmland
680	Henniker-Urban land complex, 0 to 15 percent slopes	Not prime farmland
699	Urban land	Not prime farmland
789	Champlain-Urban land complex, 0 to 8 percent slopes	Not prime farmland
97	Greenwood and Ossipee soils, ponded	Not prime farmland
W	Water	Not prime farmland

Source: Natural Resources Conservation Service (NRCS) June 2005

2.6 Tax Map and Zoning

Property boundaries and zoning districts are shown in the Tax Parcels and Zoning Map (**Map 10**). These lines are identical to those found on the Town of Tilton's most current paper tax maps. Surrounding towns, major roads, and surface waters are also identified in **Map 10**.

2.7 Conservation

The Conservation Lands Map (Map 11) includes all conservation lands located within the Town of Tilton. Tilton has only about 229 acres of public conserved lands, or about 3% of the town's area. This is a relatively small percentage in comparison to the statewide average of about 23% (as noted in SPNHF 2003). Conservation parcels shown on the map are referenced to the table below (Table 6) by ID Number.

Table 6. Conservation lands in Tilton, NH.

ID Number	Name	Area (SF)	Area (ac)
1	Winnisquam Regional School District	535504	12.3
2	Buffalo Park	2352134	54.0
3	Welch Agricultural Preservation/Restoration	375462	8.6
4	Walmart-Ice Pond	276202	6.3
5	Market Basket Conservation Easement	1252187	28.7
6	Nickerson Property	944227	21.7
7	Home Depot Property	1108461	25.4
8	Outlet Mall Easement	1354634	31.1
9	Country Lake Estate	1764903	40.5
Total Conserved Land:		9963715	229

Source: GRANIT and Town of Tilton (via Sandy Plessner 2006)

Buffalo Park

Buffalo Park is one notable example of the valuable natural resources that are currently under protection in Tilton. Set aside for conservation purposes, Buffalo Park offers diverse natural habitat, away from the urban sprawl that threatens to further fragment Tilton's lands. A variety of cover types exist including eastern white pine forest, northern hardwood forest, mixed softwood forest, mixed hardwood and softwood forest, and palustrine forested wetlands. One facet of Buffalo Park is its mature growth trees. Some of the trees can be up to five feet in diameter at breast height (DBH). They are usually isolated and do not grow in stands. This is probably because they were left uncut as boundary markers or for shade for the livestock and buffalo that once grazed the land. This former land use gave the park its name, according to the Tilton Master Plan (1994).

Nestled within this valuable local preserve are Packer Brook and an unnamed tributary to the Winnepesaukee River, both of which support a healthy fish community, including trout. A third stream just west of the property flows in a similar direction. Floodplain wetlands are associated with each of these streams, while large areas of upland are located between these lowlands valleys. Additional forested wetlands occur along the north-central portion of the property, with drainage either to the southwest or southeast, connecting ultimately with the stream systems just mentioned that run through the western and eastern portions of the property.

A fairly extensive trail system crosses the property, as well. These trails apparently receive frequent use as there is little vegetative encroachment with a well defined path. Additional evidence of less recent human use includes small trash piles and a stone wall and wire fence traversing the entire property boundary. The woven wire fence is falling down but once stood approximately 6-feet high with an additional two feet of barbed wire on top. It is easy to imagine that such a fence was used to contain the buffalo that the former owners of the property once grazed.

Surrounding land use is characterized by residential development to the south; agriculture to the west; a mix of recently cleared land, commercial land, forested land, residential land, and wetlands to the north; and rural residential and agricultural land to the east.

2.8 CONCLUSIONS

This Natural Resources Inventory, completed for the Town of Tilton, has sought to integrate resource information from various sources into a summary document in order to identify, quantify, and locate important features within the town. Importantly, it incorporates wildlife habitat, water resources, and land use to be used as a guide for future planning.

Zoning districts appear to be consistent with the land cover data included in this NRI, although many areas zoned for commercial or industrial uses remain undeveloped. More than half of the Town of Tilton is forested, providing valuable wildlife habitat in large unfragmented blocks. Habitat types are very diverse, however, and the Town also contains valuable open/early successional habitat, edge habitat, and riparian habitat in addition to these forest interior areas. Development mainly exists along the Winnepesaukee River and along the I-93 corridor, and represents the lowest percentage of land use in the Town. Despite the abundance of undeveloped areas, Tilton has very little conservation land. In future planning, the Town's high potential for habitat management and protection should be considered.

3

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NHDES. Explanation of Assessment Reports for Non-Transient Systems. [WEB]. <http://www.des.state.nh.us/dwspp/nontransient.htm>

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NRCS. Farmland Protection Policy Act. Section 2 [7 USC 4201]. U.S. Department of Agriculture Natural Resources Conservation Service.

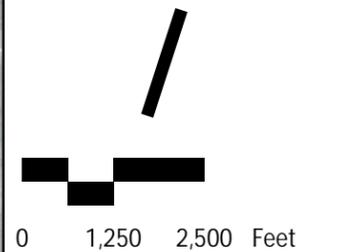
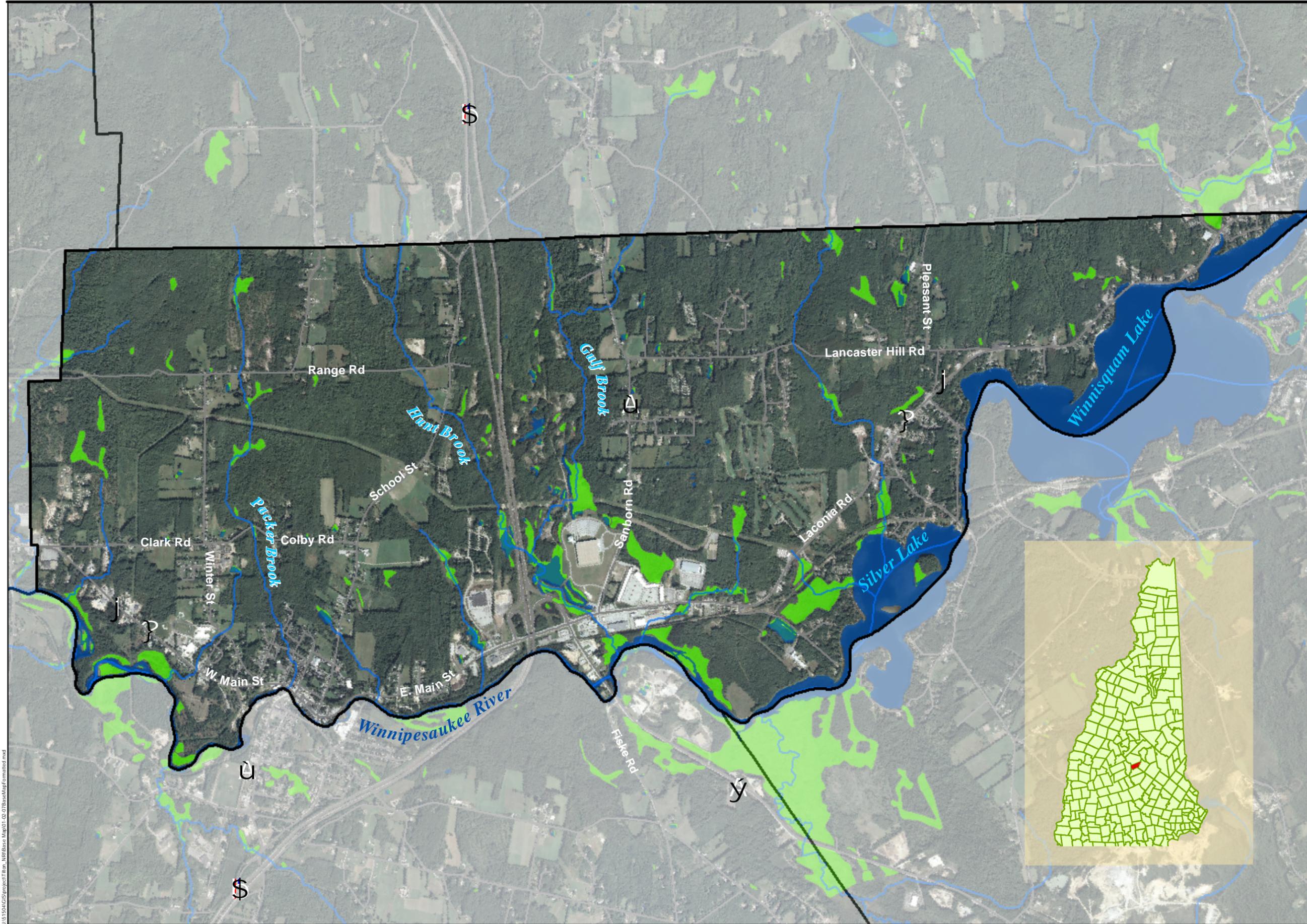
SPNHF. 2003. Natural Resource Inventory Chichester, NH. The Society for the Protection of New Hampshire Forests, Concord, New Hampshire.

Town of Tilton Master Plan. 1994. Town Planning Board. Tilton, New Hampshire.

Resource Maps

Legend

-  Streams and Rivers
-  Roads (NHDOT)
-  Wetlands
-  Water Bodies
-  Town Boundary



Map 1
Town Of Tilton, NH
Natural Resource Inventory
Base Map

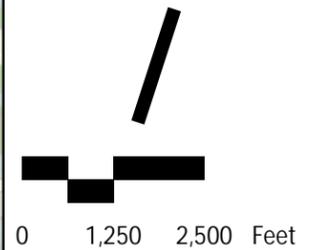
NOTES:
1. Data are from GRANIT, N.H. Fish & Game Department, and VHIB. The "Wetland Habitat" data layer is a combination of four data layers from the NH Fish & Game Department's Coarse Filter Analysis of Potentially Significant Wildlife Habitats (9/22/04) (the date of the release of data provided by NHFG): nwi palustrine emergent (nwi_pem); small wetland clusters (clusters); wetlands >5 acres (wetg5); and riparian areas (riparian).
2. Digital Orthophotos were captured in 2003 by NAIP.
3. "Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data."
4. "This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership."

Legend

- Streams and Rivers
- Roads (NHDOT)

Land Cover/Land Use

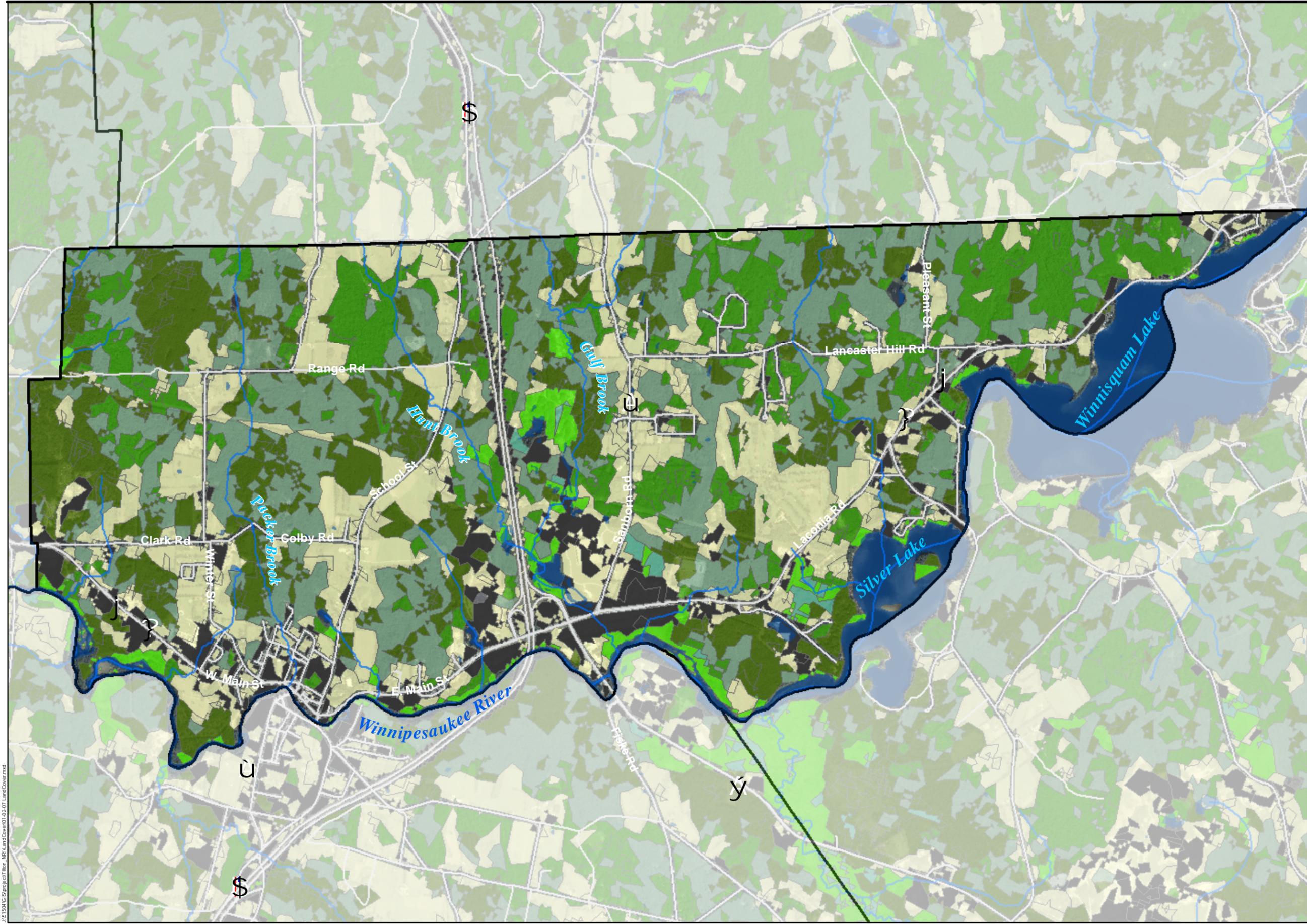
- Residential/Commercial/Industrial
- Farmland/Open Habitat
- Deciduous Forest
- Coniferous Forest
- Mixed Forest
- Forested Wetland
- Open Wetland
- Water Bodies
- Town Boundary



Map 2
Town Of Tilton, NH
Natural Resource Inventory

Land Cover/Land Use

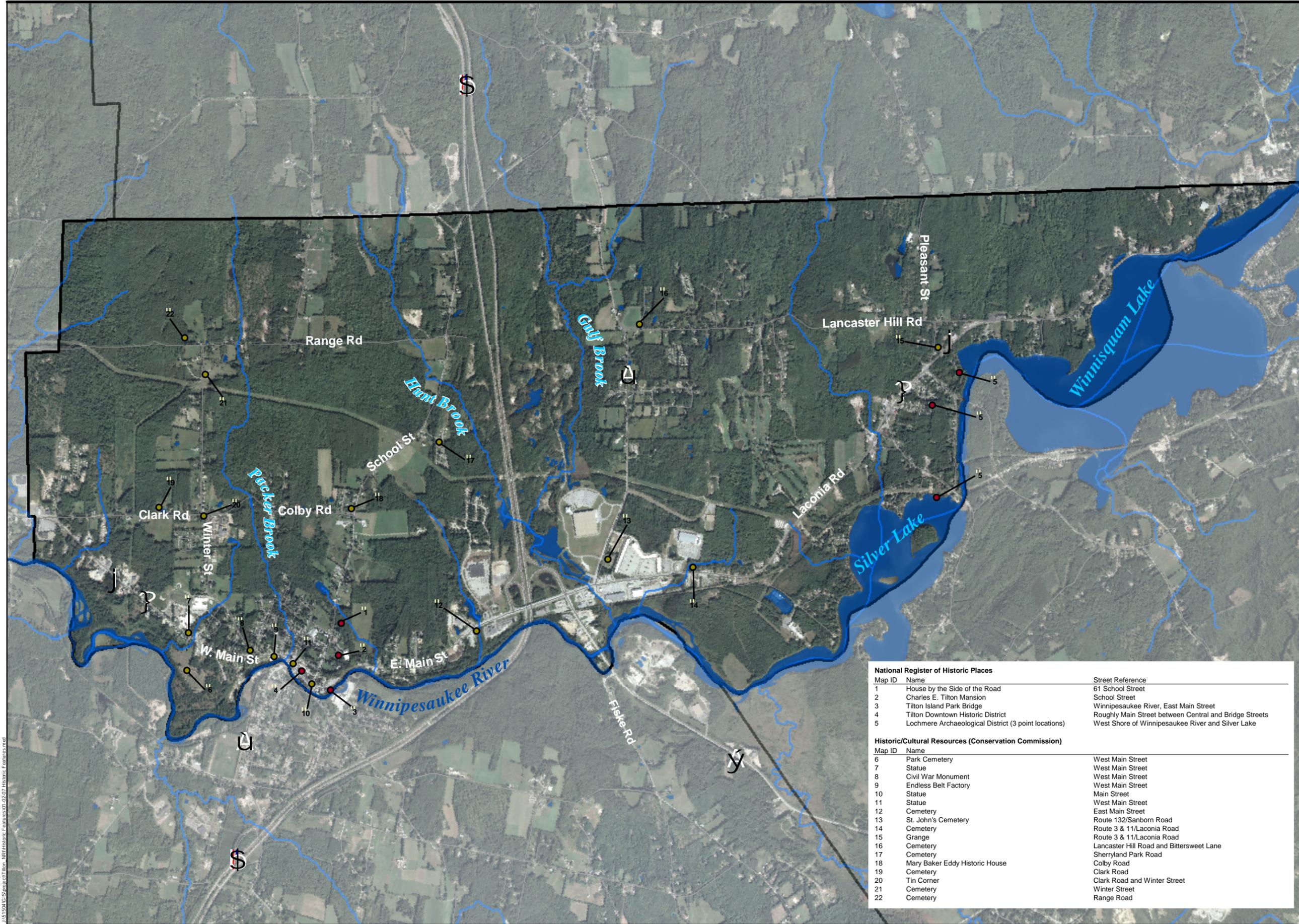
- NOTES
1. Data are from GRANIT and NH Fish & Game Department. Land Cover/Landuse data are provided by NH Fish & Game Department 9/22/04 (the date of the release of data provided by NHFG) Coarse Filter Analysis of Potentially Significant Wildlife Habitats.
 2. Digital Orthophotos were captured in 2003 by NAIP.
 3. "Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data."
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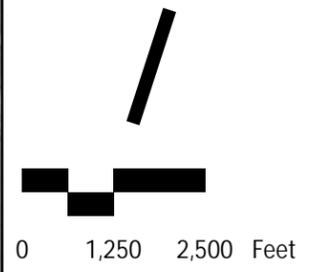
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Legend

- National Register of Historic Places
- Historic Features (Town)
- Streams and Rivers
- Roads (NHDOT)
- Water Bodies
- Town Boundary



National Register of Historic Places		
Map ID	Name	Street Reference
1	House by the Side of the Road	61 School Street
2	Charles E. Tilton Mansion	School Street
3	Tilton Island Park Bridge	Winnepesaukee River, East Main Street
4	Tilton Downtown Historic District	Roughly Main Street between Central and Bridge Streets
5	Lochmere Archaeological District (3 point locations)	West Shore of Winnepesaukee River and Silver Lake
Historic/Cultural Resources (Conservation Commission)		
Map ID	Name	Street Reference
6	Park Cemetery	West Main Street
7	Statue	West Main Street
8	Civil War Monument	West Main Street
9	Endless Belt Factory	West Main Street
10	Statue	Main Street
11	Statue	West Main Street
12	Cemetery	East Main Street
13	St. John's Cemetery	Route 132/Sanborn Road
14	Cemetery	Route 3 & 11/Laconia Road
15	Grange	Route 3 & 11/Laconia Road
16	Cemetery	Lancaster Hill Road and Bittersweet Lane
17	Cemetery	Sherryland Park Road
18	Mary Baker Eddy Historic House	Colby Road
19	Cemetery	Clark Road
20	Tin Corner	Clark Road and Winter Street
21	Cemetery	Winter Street
22	Cemetery	Range Road



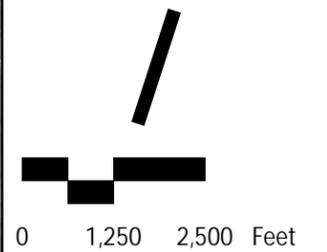
Map 3
Town Of Tilton, NH
Natural Resource Inventory
Historic/Cultural Features

NOTES:
1. Data are from GRANIT.
2. Digital Orthophotos were captured in 2003 by NAIP.
3. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
4. This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership.

Legend

Unfragmented Lands (>25 acres)

- Area/Perimeter Ratio**
-  Low (More Fragmented)
 -  High (Less Fragmented)
 -  Streams and Rivers
 -  Roads (NHDOT)
 -  Water Bodies
 -  Town Boundary

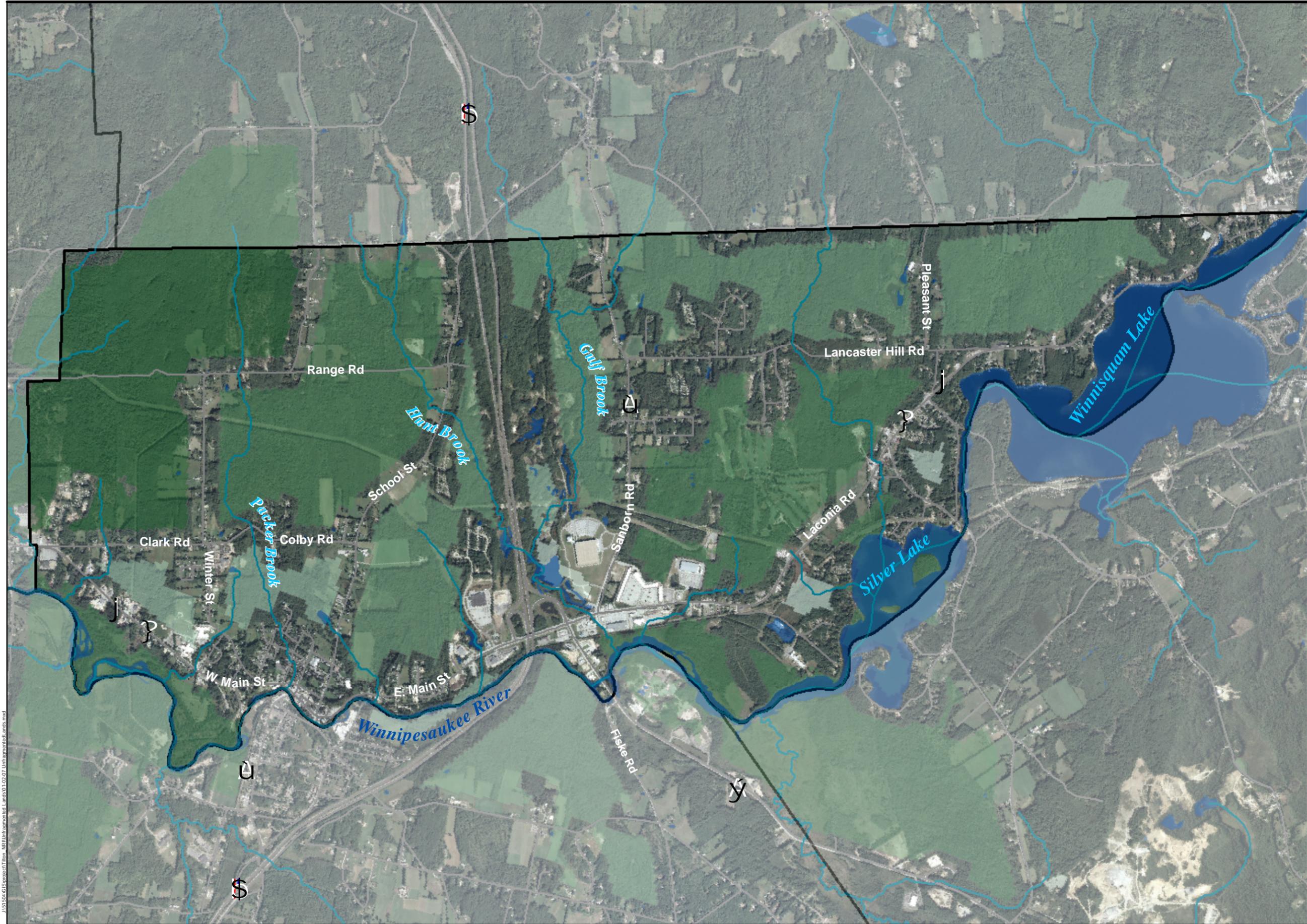


Map 4
Town Of Tilton, NH
Natural Resource Inventory

Unfragmented Lands

NOTES:

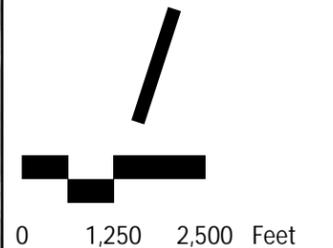
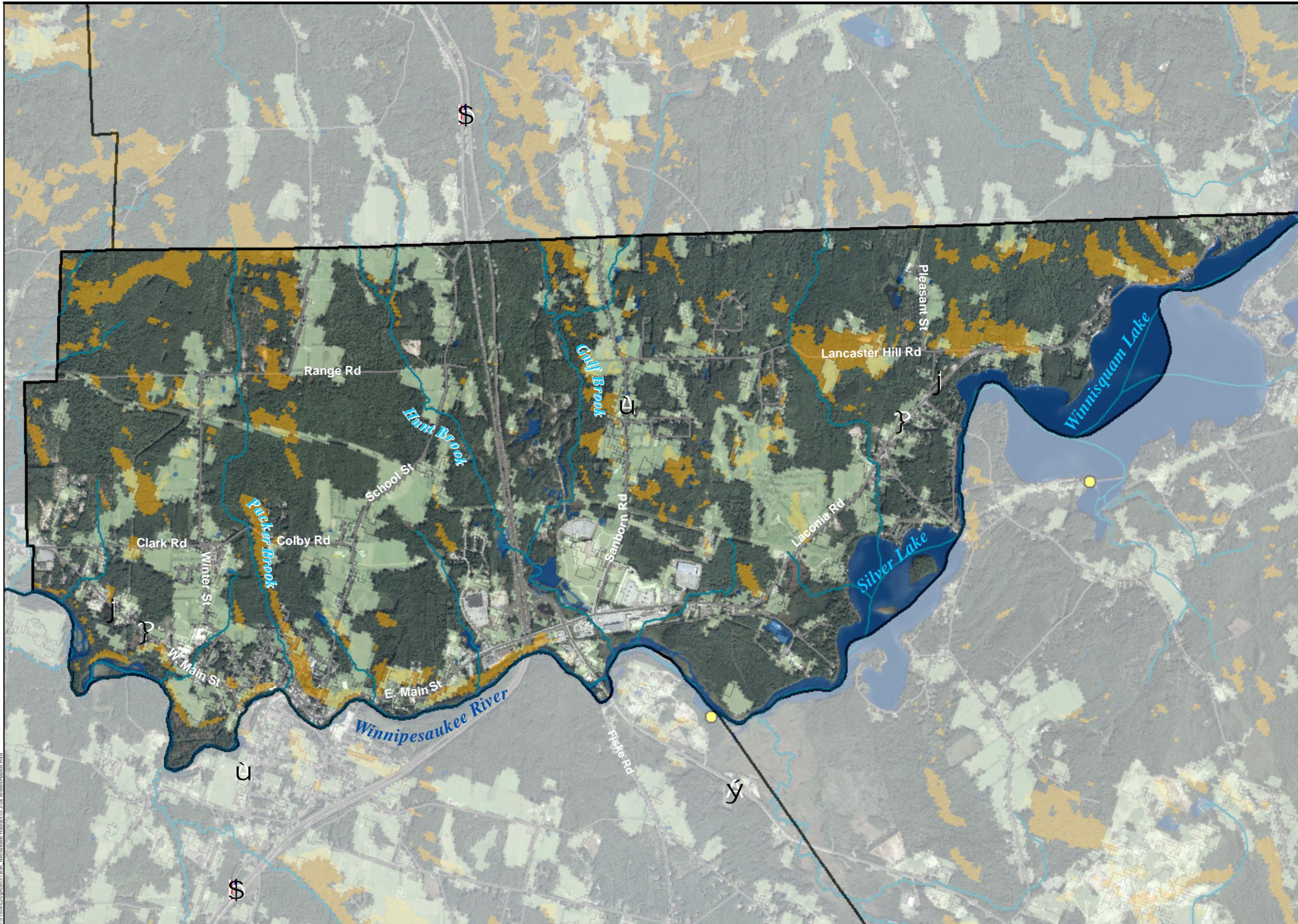
1. Data are from GRANIT and the NH Fish & Game Department. Unfragmented Lands data are from the NH Fish & Game Coarse Filter Analysis of Potentially Significant Wildlife Habitats [9/22/04 (the date of the release of data provided by NHFG)].
2. Digital Orthophotos were captured in 2003 by NAIP.
3. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
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Legend

-  Special Status Species (NHB)
-  Streams and Rivers
-  Roads (NHDOT)
-  Open Habitat
-  South-facing Slopes (>10%)
-  Water Bodies
-  Town Boundary



Map 5
Town Of Tilton, NH
Natural Resource Inventory
Open Habitat
and South-facing Slopes

NOTES:
1. Data are from GRANIT, NH Fish & Game Department, and the Natural Heritage Bureau. Open Habitat and South-facing slopes data are from the NH Fish & Game Department's Coarse Filter Analysis of Potentially Significant Wildlife Habitats (2004) (the date of the release of data provided by NHFGL).
2. Digital Orthophotos were captured in 2003 by NHP.
3. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
4. This map illustrates the general locations of rare plants, wildlife, and natural communities (natural communities are different types of wetlands, forests, etc.). Precise locations are not shown due to the data's sensitive nature. The NH Natural Heritage Bureau's database contains more detailed information including locations, population sizes, and habitat descriptions.
5. This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership.

Legend

Co-occurrences

Value

Low (2 Co-occurrences)

High (7 Co-occurrences)

Unfragmented Lands (>25 acres)

Low (More Fragmented)

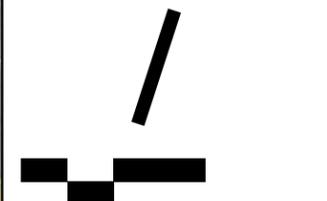
High (Less Fragmented)

Streams and Rivers

Roads (NHDOT)

Water Bodies

Town Boundary



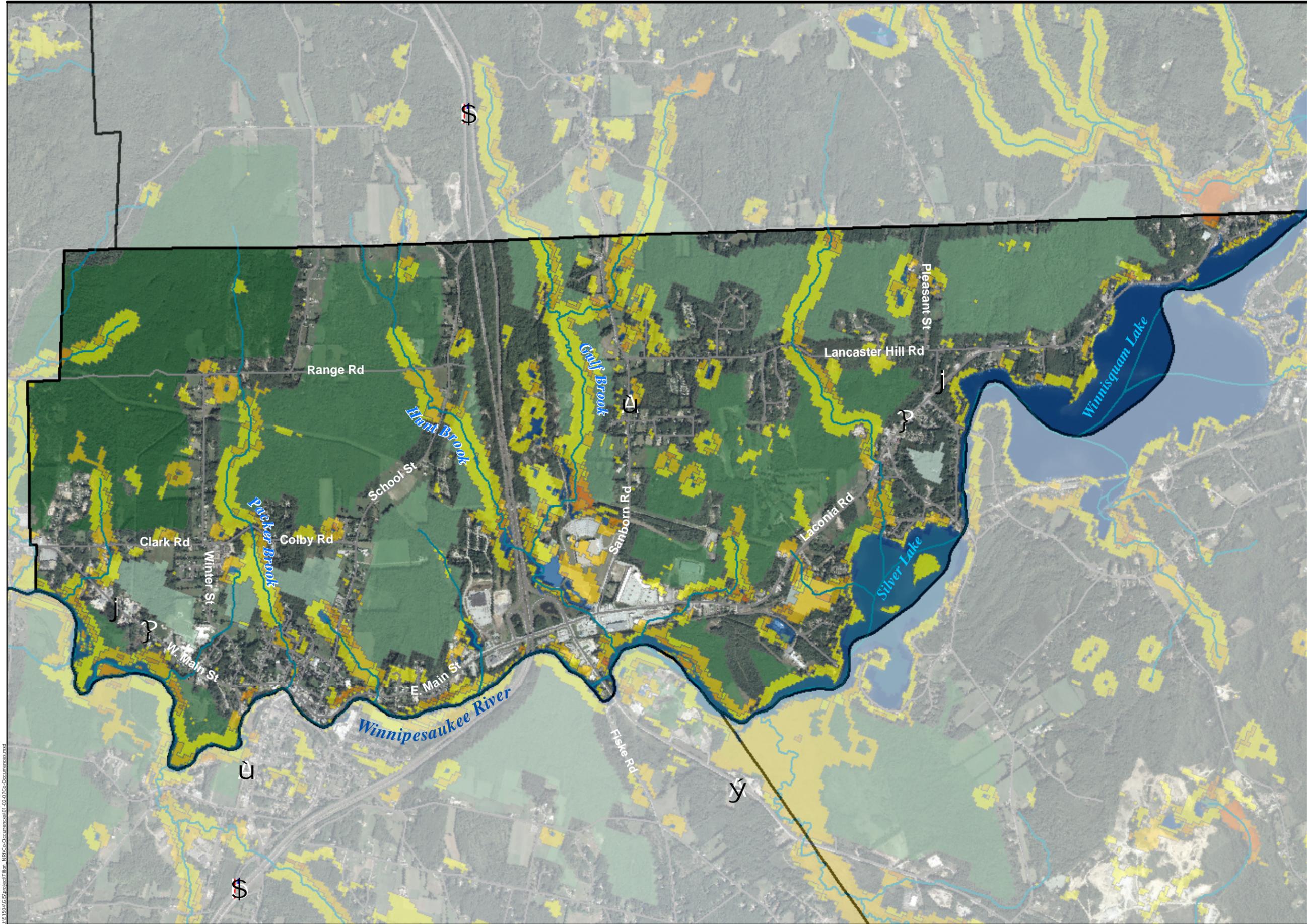
0 1,250 2,500 Feet

Map 6

Town Of Tilton, NH
Natural Resource Inventory

Co-Occurrence Map

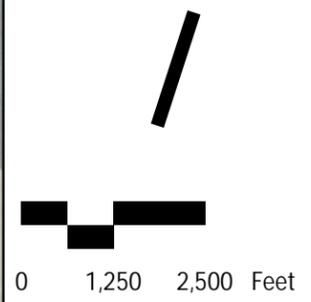
NOTES:
1. Data are from GRANIT, NH Fish & Game Department, and VHIB. Co-occurrences and Unfragmented Lands data are from the NH Fish & Game Course Filter Analysis of Potentially Significant Wildlife Habitats (9/22/04 (the date of the release of data provided by NHFG)).
2. Digital Orthophotos were captured in 2003 by NAIP.
3. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
4. This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership.



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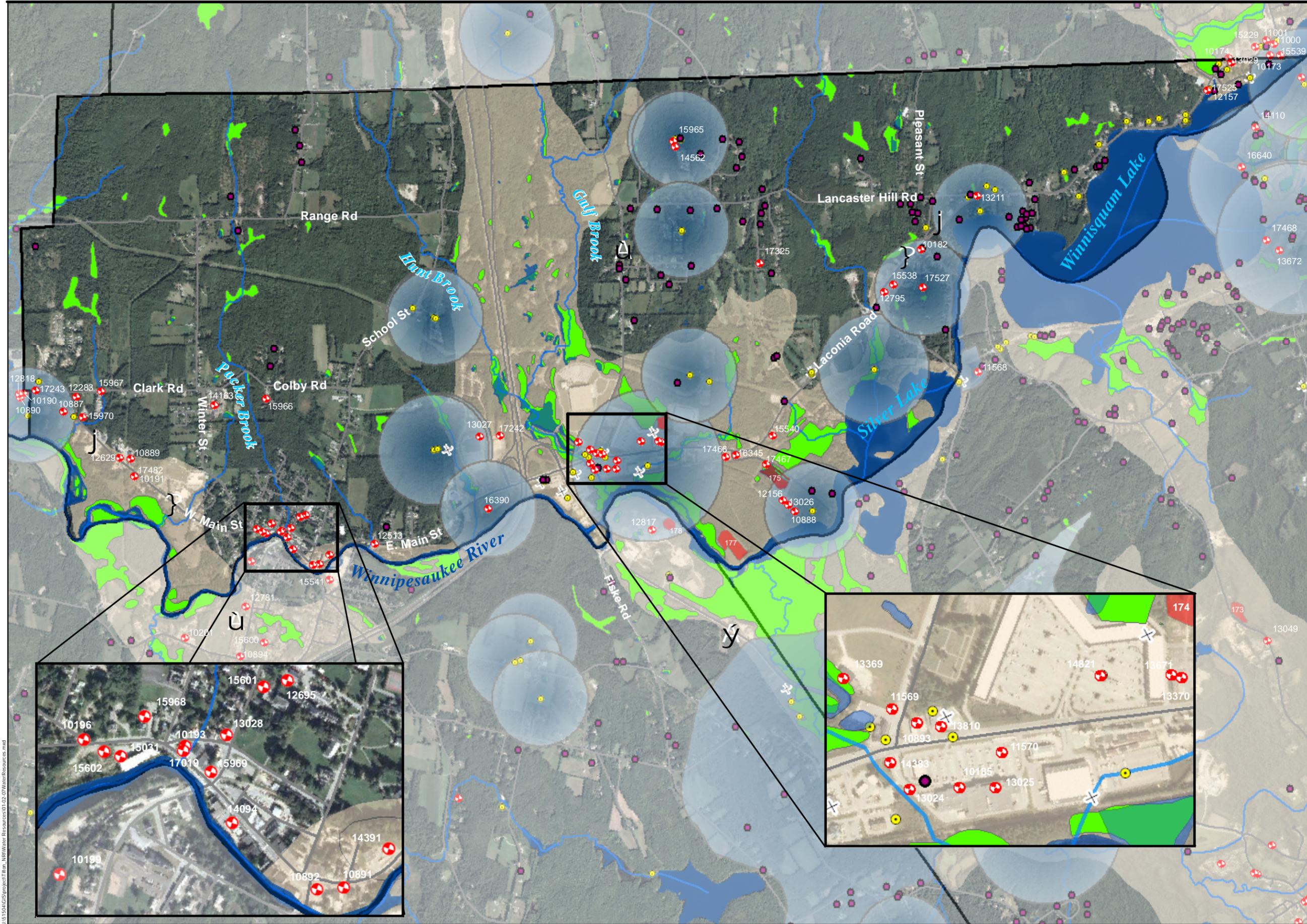
- Private Wells (NHDES Inventory)
- Public Water Supply Sources
- Well Head Protection Area
- Treatment Facility/Pump House
- h Groundwater Hazards
- Streams and Rivers
- Roads (NHDOT)
- Groundwater Hazards
- Wetlands
- Stratified Drift Aquifer
- Water Bodies
- Town Boundary



Map 7
Town Of Tilton, NH
Natural Resource Inventory

Water Resources

- NOTES:
1. Data are from GRANIT, NH Fish & Game Department, and NH Department of Environmental Services. The Wetland Habitat data layer is a combination of four data layers from the NH Fish & Game Department's Coarse Filter Analysis of Potentially Significant Wildlife Habitats (8/22/04 (the date of the release of data provided by NHFG): nwi palustrine emergent (nwi_pem); small wetland clusters (clusters); wetlands >5 acres (wetg5); and riparian areas (riparian)).
 2. Digital Orthophotos were captured in 2003 by NHP.
 3. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
 4. Well and water supply data are from the NH DES database (One Stop Data Retrieval System, online).
 5. This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership.





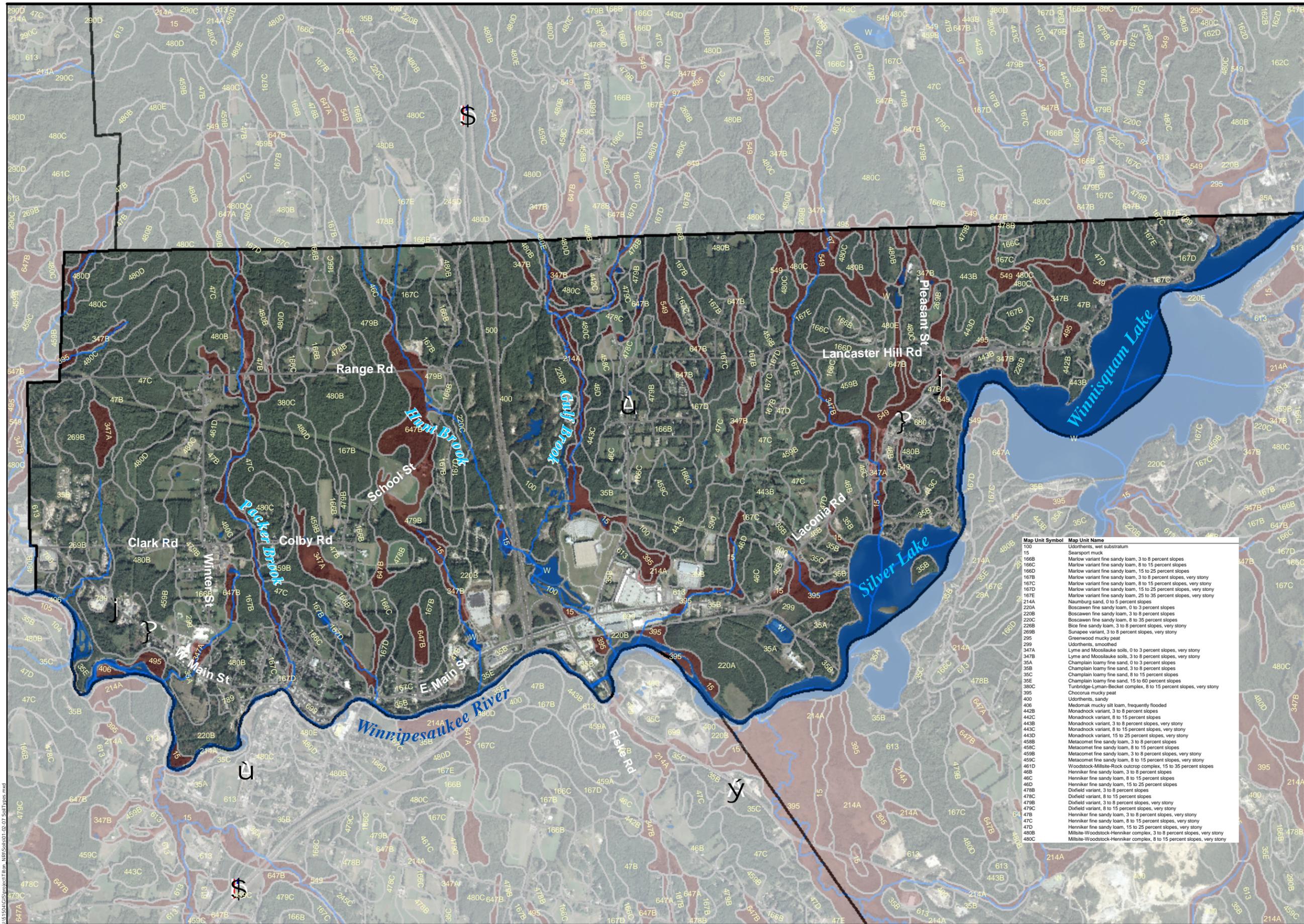
Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

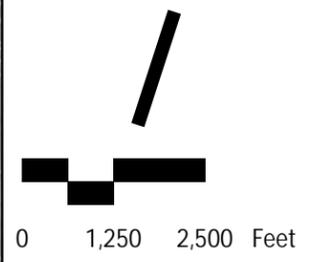
Six Bedford Farms, Suite 607
Bedford, New Hampshire 03110
Phone 603-644-0888 Fax 603-644-2385

Legend

- Streams and Rivers
- Roads (NHDOT)
- Hydric Soils
- Soil Unit Boundary
- Water Bodies
- Town Boundary



Map Unit Symbol	Map Unit Name
100	Udothenis, wet substratum
119	Seaport muck
167B	Marlow variant fine sandy loam, 3 to 8 percent slopes
166C	Marlow variant fine sandy loam, 8 to 15 percent slopes
166D	Marlow variant fine sandy loam, 15 to 25 percent slopes
167B	Marlow variant fine sandy loam, 3 to 8 percent slopes, very stony
167C	Marlow variant fine sandy loam, 8 to 15 percent slopes, very stony
167D	Marlow variant fine sandy loam, 15 to 25 percent slopes, very stony
167E	Marlow variant fine sandy loam, 25 to 35 percent slopes, very stony
214A	Naumburg sand, 0 to 5 percent slopes
220A	Boscawen fine sandy loam, 0 to 3 percent slopes
220B	Boscawen fine sandy loam, 3 to 8 percent slopes
220C	Boscawen fine sandy loam, 8 to 35 percent slopes
226B	Bice fine sandy loam, 3 to 8 percent slopes, very stony
269B	Sunapee variant, 3 to 8 percent slopes, very stony
295	Greenwood mucky peat
299	Udothenis, smoothed
347A	Lyme and Moosilauke soils, 3 to 8 percent slopes, very stony
347B	Champlain loamy fine sand, 0 to 3 percent slopes
35A	Champlain loamy fine sand, 3 to 8 percent slopes
35B	Champlain loamy fine sand, 8 to 15 percent slopes
35C	Champlain loamy fine sand, 15 to 60 percent slopes
35E	Champlain loamy fine sand, 15 to 25 percent slopes
380C	Tunbridge-Lyman-Becket complex, 8 to 15 percent slopes, very stony
395	Chocorua mucky peat
400	Udothenis, sandy
406	Medomak mucky silt loam, frequently flooded
442B	Monadnock variant, 3 to 8 percent slopes
442C	Monadnock variant, 8 to 15 percent slopes
443B	Monadnock variant, 3 to 8 percent slopes, very stony
443C	Monadnock variant, 8 to 15 percent slopes, very stony
443D	Monadnock variant, 15 to 25 percent slopes, very stony
458B	Metacomet fine sandy loam, 3 to 8 percent slopes
458C	Metacomet fine sandy loam, 8 to 15 percent slopes
458D	Metacomet fine sandy loam, 3 to 8 percent slopes, very stony
459C	Metacomet fine sandy loam, 8 to 15 percent slopes, very stony
461D	Woodstock-Millsite-Rock outcrop complex, 15 to 35 percent slopes
46B	Henniker fine sandy loam, 3 to 8 percent slopes
46C	Henniker fine sandy loam, 8 to 15 percent slopes
46D	Henniker fine sandy loam, 15 to 25 percent slopes
478B	Dixfield variant, 3 to 8 percent slopes
478C	Dixfield variant, 8 to 15 percent slopes
478D	Dixfield variant, 3 to 8 percent slopes, very stony
478E	Dixfield variant, 8 to 15 percent slopes, very stony
47C	Henniker fine sandy loam, 3 to 8 percent slopes, very stony
47D	Henniker fine sandy loam, 8 to 15 percent slopes, very stony
480B	Millsite-Woodstock-Henniker complex, 3 to 8 percent slopes, very stony
480C	Millsite-Woodstock-Henniker complex, 8 to 15 percent slopes, very stony



Map 8A
Town Of Tilton, NH
Natural Resource Inventory

Soil Types

- NOTES:
1. Data are from GRANIT and the Natural Resources Conservation Service (NRCS).
 2. Digital Orthophotos were captured in 2003 by NADP.
 3. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
 4. The soil information for the Merrimack and Belknap Counties Soil Survey (MBS) Update is preliminary and subject to change. The spatial, tabular, and narrative data of the Merrimack and Belknap Counties Soil Survey Update (MBSU) was produced by the USDA, Natural Resources Conservation Service (NRCS). They are draft products and are being made available as a conditional interim release. The information is subject to change until the survey has undergone final correlation and is SSURGO certified. Data users are responsible for obtaining the most current copy of the data. For further information, contact the NRCS State Soil Scientist, Steve Hurdley at 603/868-7511.
 5. This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership.



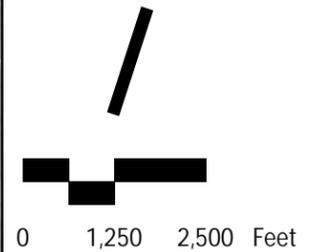
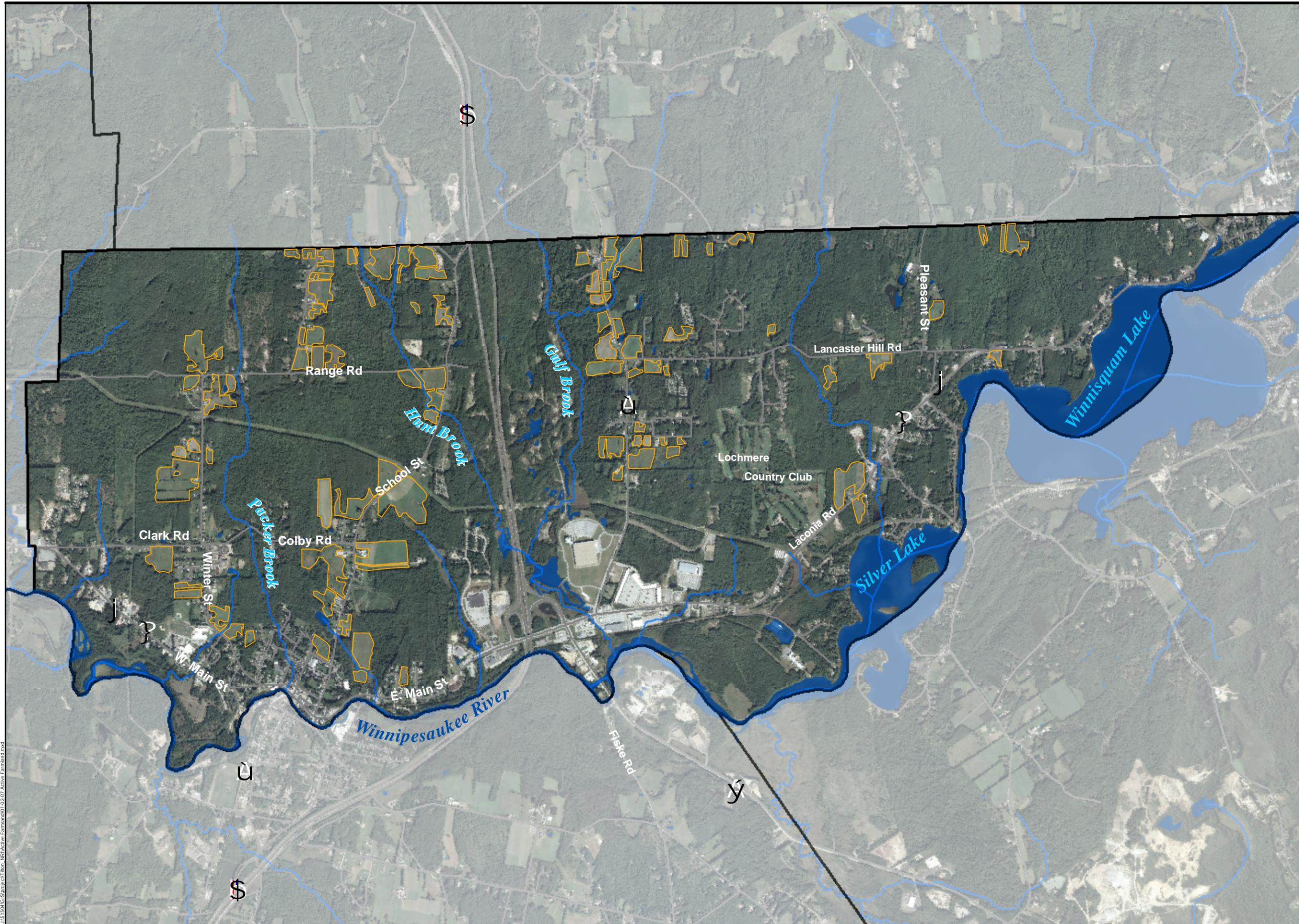
Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

Six Bedford Farms, Suite 607
Bedford, New Hampshire 03110
Phone 603-644-0888 Fax 603-644-2385

Legend

- Streams and Rivers
- Roads (NHDOT)
- Water Bodies
- Active Farmlands
- Town Boundary



Map 9
 Town Of Tilton, NH
 Natural Resource Inventory
 Active Farmland

NOTES:

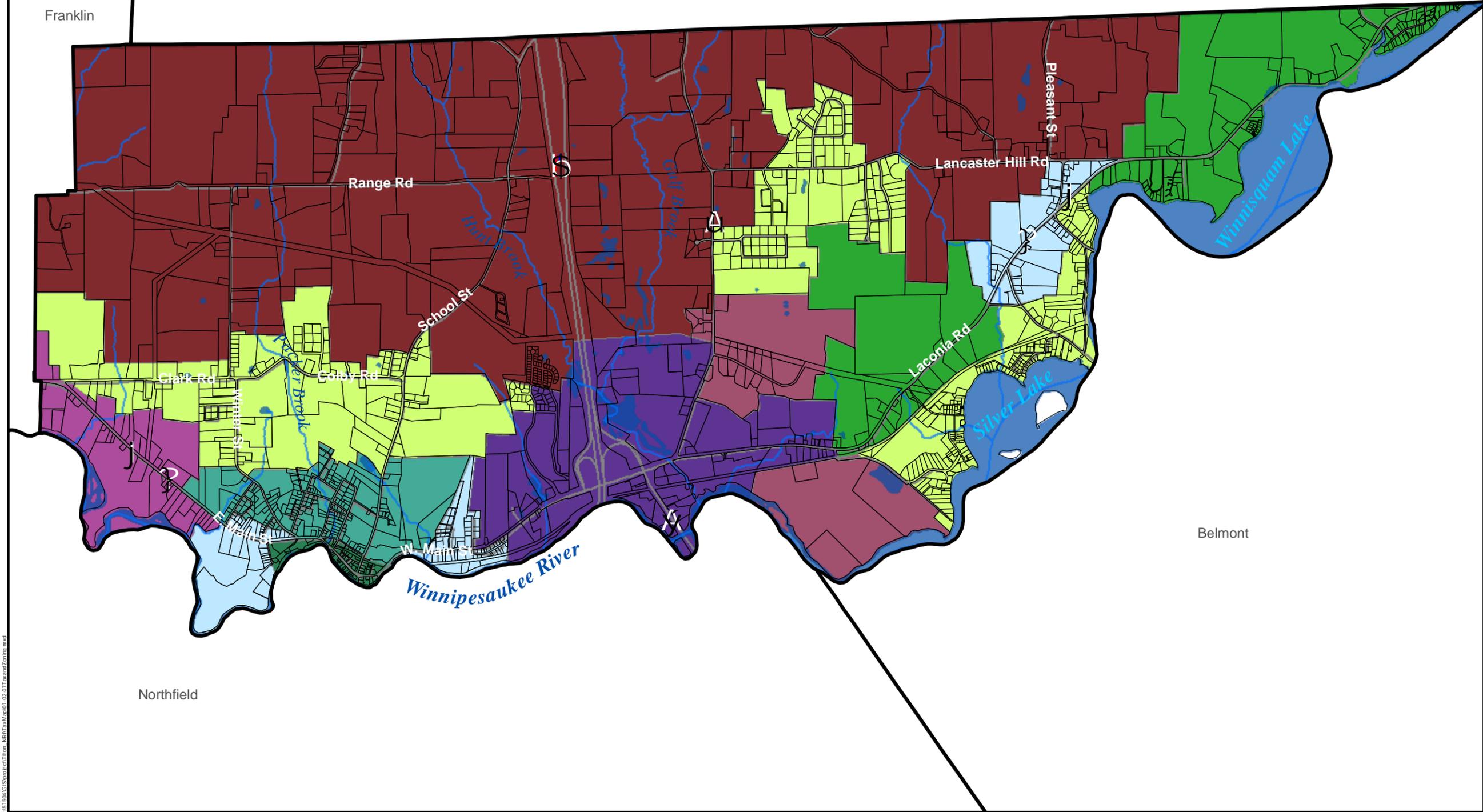
1. Data are from GRANIT, Natural Resource Conservation Services, and VHIB. Active Farmlands were digitized from aerial photographs by VHIB.
2. Digital Orthophotos were captured in 2003 by NAPP.
3. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
4. The soil information for the Merrimack and Belknap Counties Soil Survey (MBSS) Update is preliminary and subject to change. The spatial, tabular, and narrative data of the Merrimack and Belknap Counties Soil Survey Update (MBSS) was produced by the USDA, Natural Resources Conservation Service (NRCS). They are draft products and are being made available as a conditional interim release. The information is subject to change until the survey has undergone final correlation and is SSURGO certified. Data users are responsible for obtaining the most current copy of the data. For further information, contact the NRCS State Soil Scientist, Steve Handley at (603)868-7581.
5. This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership.

Franklin

Sanbornton

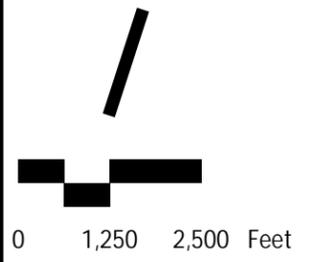
Belmont

Northfield



Legend

- Streams and Rivers
 - Roads (NHDOT)
 - Waterbodies
 - Tax Parcels
 - Town Boundary
- Zoning**
- Rural Agricultural Districts
 - Resort Commercial Districts
 - Medium Density Residential Districts
 - Mixed Use Districts
 - General Commercial Districts
 - Regional Commercial Districts
 - Industrial Park Districts
 - Downtown Districts
 - Village Residential Districts



Map 10
Town Of Tilton, NH
Natural Resource Inventory
Tax Parcels and Zoning

NOTES:

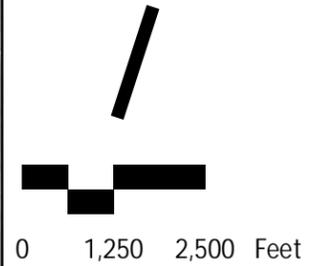
1. Data are from GRANIT and the Town of Tilton.
2. Digital Orthophotos were captured in 2003 by NAIP.
3. "Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data."
4. "This map is one of a series of maps that is produced as part of a town-wide natural resource inventory for the Tilton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership."

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Legend

-  Streams and Rivers
-  Roads (NHDOT)
-  Water Bodies
-  Conserved Public Lands
-  Town Boundary

1. Winnisquam Regional School District
2. Buffalo Park
3. Welch Agricultural Preservation/Restoration
4. Walmart-Ice Pond
5. Market Basket Conservation Easement
6. Nickerson Property
7. Home Depot Property
8. Outlet Mall Easement
9. Country Lake Estate

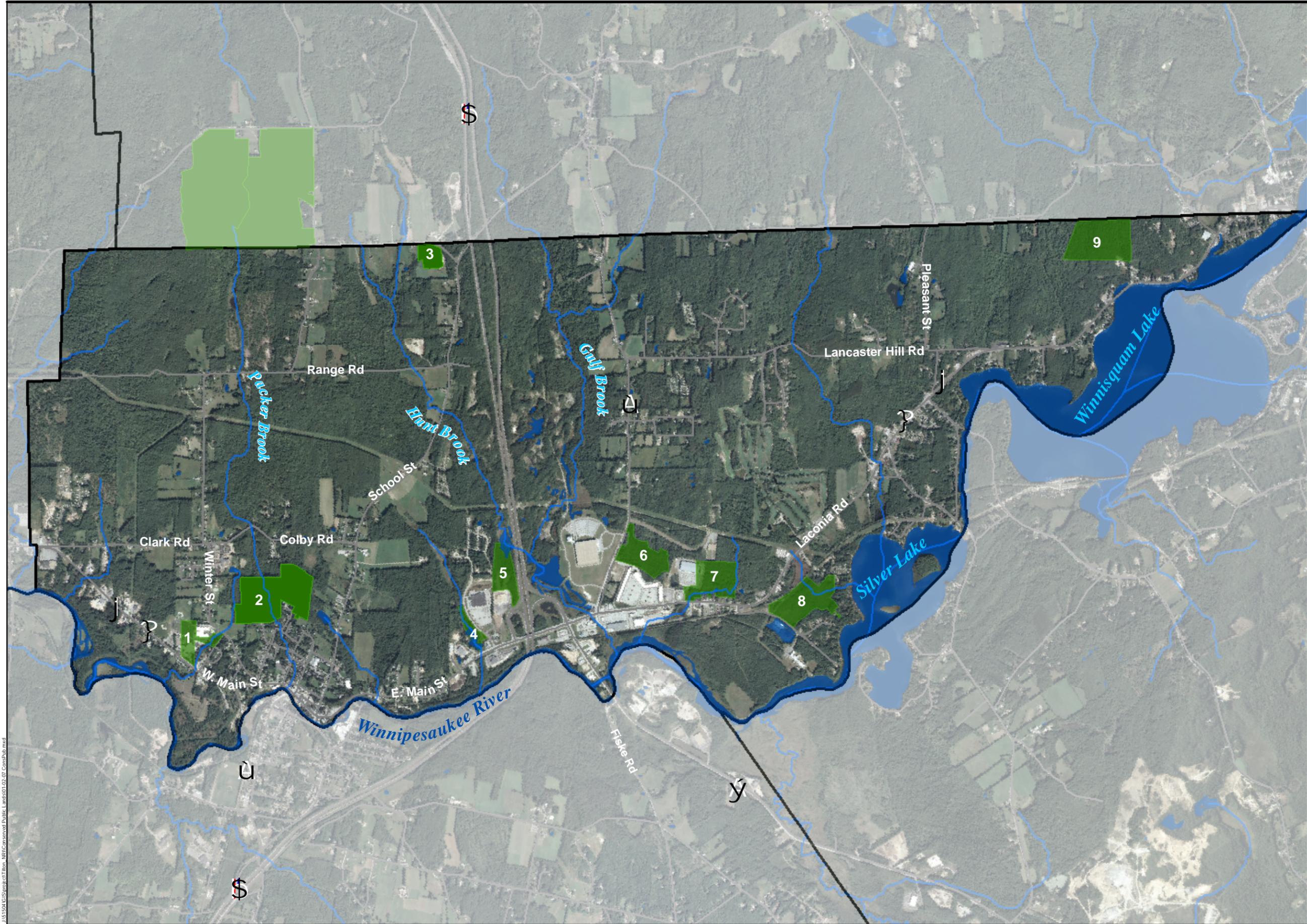


Map 11
Town Of Tilton, NH
Natural Resource Inventory

Conserved Public Lands

NOTES:

1. Data are from GRANIT, the Town of Tilton, and VHIB.
2. The Conserved Public Lands data layer includes data provided by both GRANIT and by the Town of Tilton.
3. Digital Orthophotos were captured in 2003 by NAIP.
4. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OSP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
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