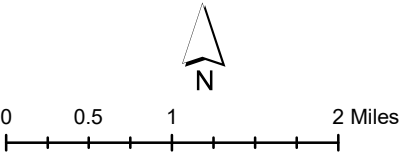


Figure 1.1 Geography

Colchester, Vermont 2017 All-Hazards Mitigation Plan

Land Cover

- Developed, Open Space
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Forest
- Pasture/Crops
- Wetlands



DATA SOURCES:
Land Cover - NLCD, 2011
Hillshade - VCGI

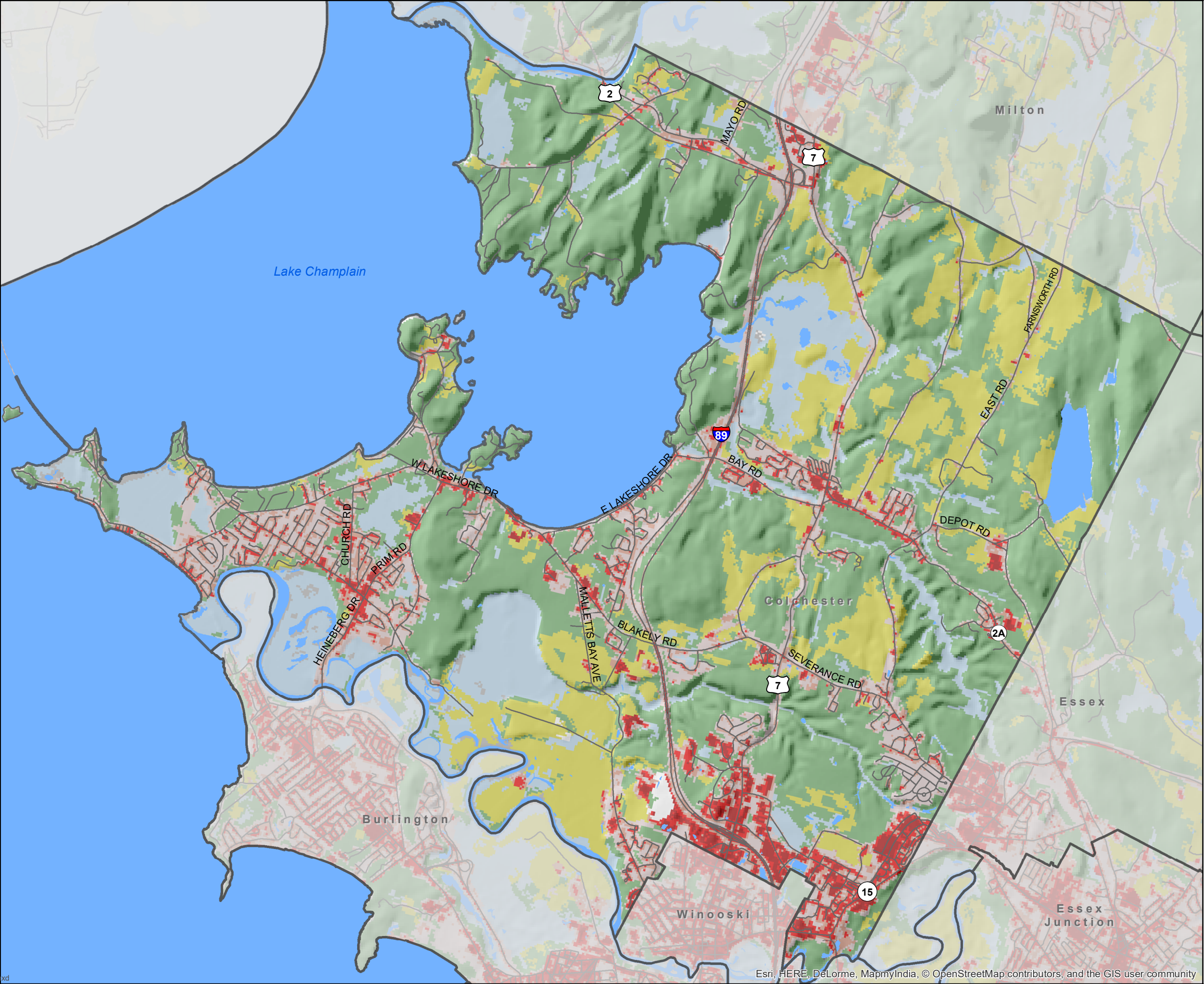
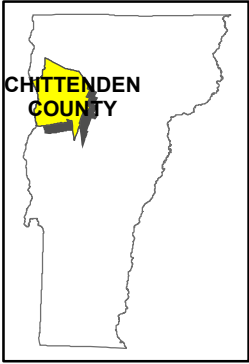
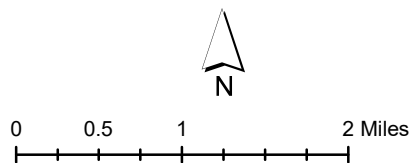


Figure 1.2 Housing and Employment

2017 Colchester, Vermont All-Hazards Mitigation Plan

- ◆ Congregate Housing*
- Mobile Home
- Multi-family
- Single Family
- Employment Locations

*Congregate Housing includes:
Nursing Homes, Assisted Living
Residence, Therapeutic Community
Residence, and Level III Residential
Care Homes.



DATA SOURCES:
Mobile Home, Multi-family, Single-family- E911, 2015
Employment Locations - CCRPC, 2013
Congregate Housing- VT Dept. Aging, Independent Living, 2015

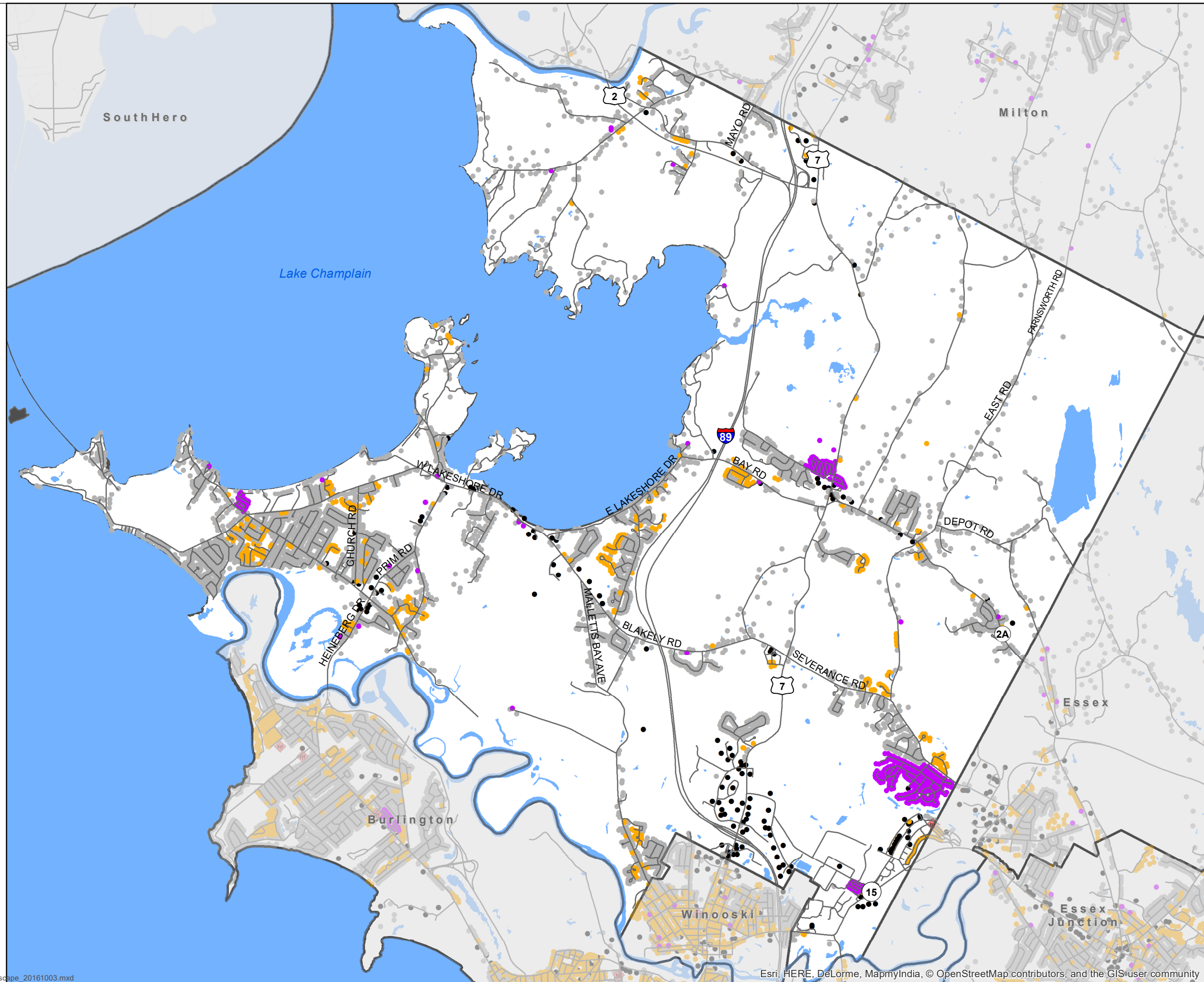
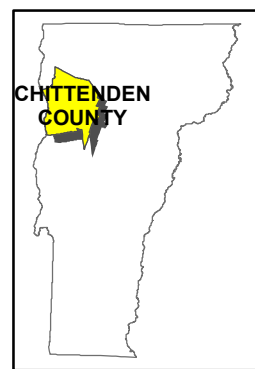


Figure 1.3 **Future Land Use** **Colchester, Vermont** **2017 All-Hazards Mitigation Plan**

- Zoning District

LS1 - Lakeshore One

LS2 - Lakeshore Two

R1 - Residential One

R2 - Residential Two

R3 - Residential Three

R5 - Residential Five

R10 Residential Ten

MHP - Mobile Home Park

GD1 - General Development One

GD2 - General Development Two

GD3 - General Development Three

GD4 - General Development Four

BD - Business

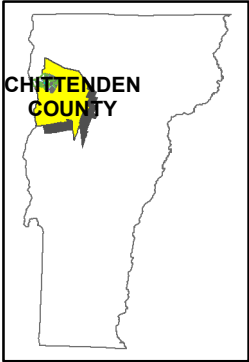
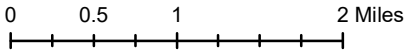
COM - Commercial

IND - Industrial

AGR - Agricultural

AMU - Agricultural Mixed Use

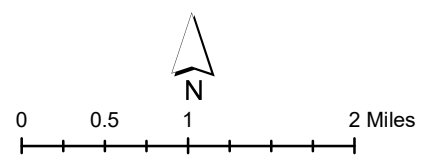
FP - Floodplain



DATA SOURCES:
 Zoning, 2011

Figure 1.4 **Critical Facilities** **2017** **Colchester, Vermont** **All-Hazards Mitigation Plan**

- School
 - College / University
 - Law Enforcement
 - Municipal Office
 - EMS
 - Fire
 - Water and Wastewater Treatment Facility
 - Emergency Shelter
 - Major Road
 - Vermont Gas Service Area
 - Sewer Service Area
 - Water Service Area
- Electric Utility**
- Burlington Electric Dept.
 - Green Mountain Power
 - Vermont Electric Co-op



DATA SOURCES:
 Schools, Law Enforcement, Municipal Office, EMS, Fire,
 Wastewater Facility - Critical Facilities, 2014, CCRPC
 Electric Utility Franchise Areas - VCGI
 Vermont Gas data - VT Gas 2016

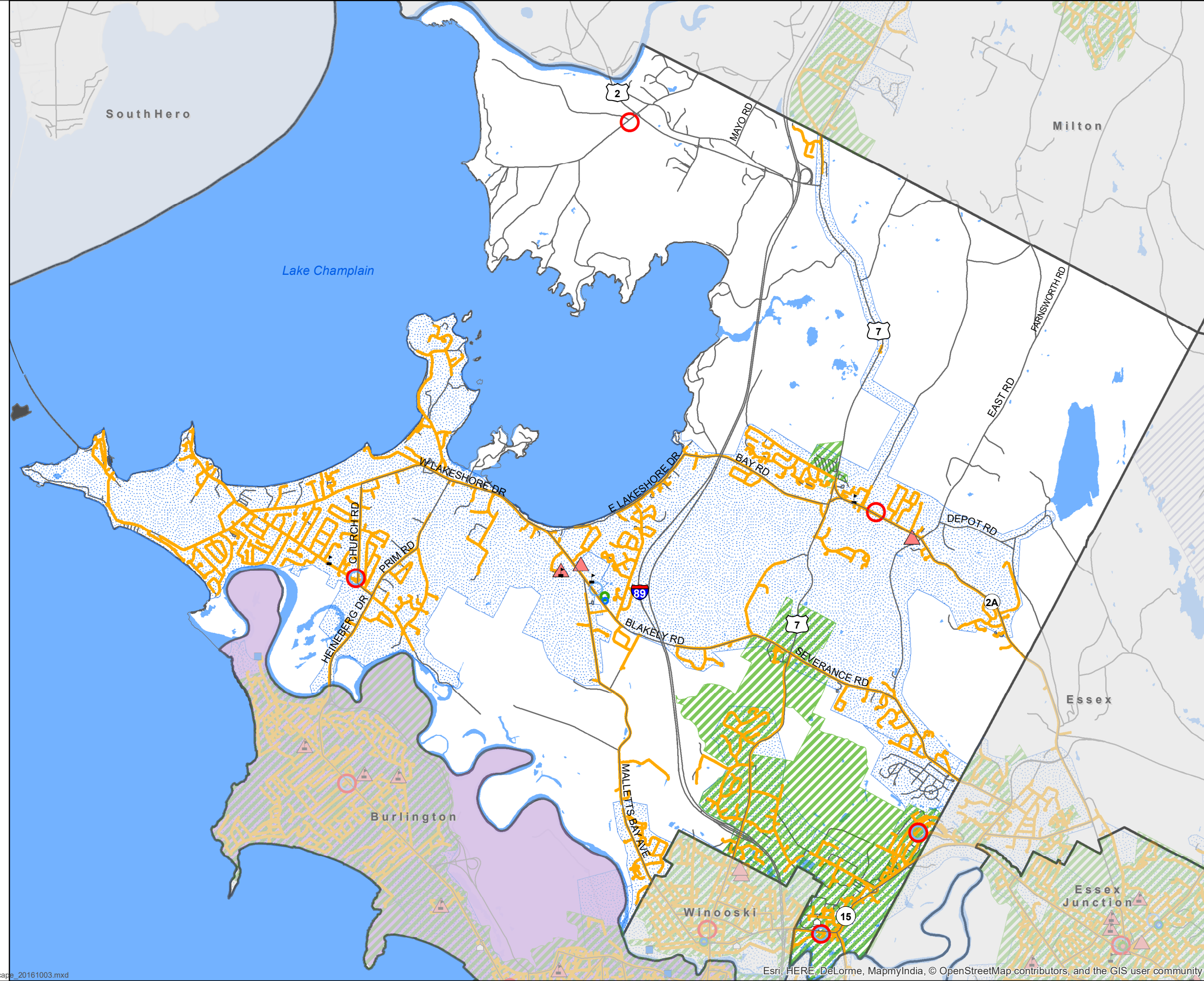
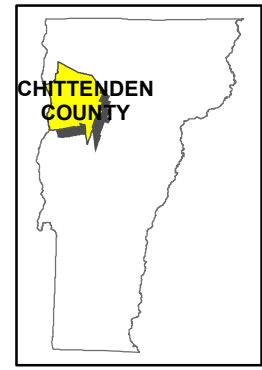


Figure 2.1 River Corridors and Floodplains

Colchester, Vermont
2017 All-Hazards Mitigation Plan

National Inventory of Dams

DamStatus

- In Service
- Breached

Geomorphically Incompatible Culvert Compatibility

- ▲ Mostly Incompatible*
- ▲ Fully Incompatible**
- River Corridor Protection Area
- ANR River Corridor - January 2015

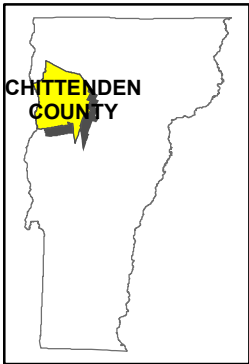
Digital Flood Insurance Rate Map

- Special Flood Hazard Area (100 Year Floodplain)
- View individual Municipal Regs for detail

*Mostly incompatible $5 < GC < 10$
% Bankfull Width + Approach Angle scores < 2 Structure mostly incompatible with current form and process, with a moderate to high risk of structure failure. Re-design and replacement planning should be initiated to improve geomorphic compatibility.

**Fully incompatible $0 < GC < 5$
% Bankfull Width + Approach Angle scores < 2 AND Sediment Continuity + Erosion and Armoring scores < 2 Structure fully incompatible with channel and high risk of failure. Re-design and replacement should be performed as soon as possible to improve geomorphic compatibility.

DATA SOURCES:
Dams data from US Army Corps of Engineers; Insufficient structures derived from ANR geomorphology inventories. River Corridor Protection Area equals a rivers meander belt (also known as Fluvial Erosion Hazard Area). River Corridor equals a rivers meander belt plus buffer extension. See Floodready.vermont.gov for more detail
FEMA DFIRM - developed in 2011 by FEMA consultant
Municipal Water Protection Buffers & Setbacks derived from municipal zoning regulations.



0 0.5 1 2 Miles

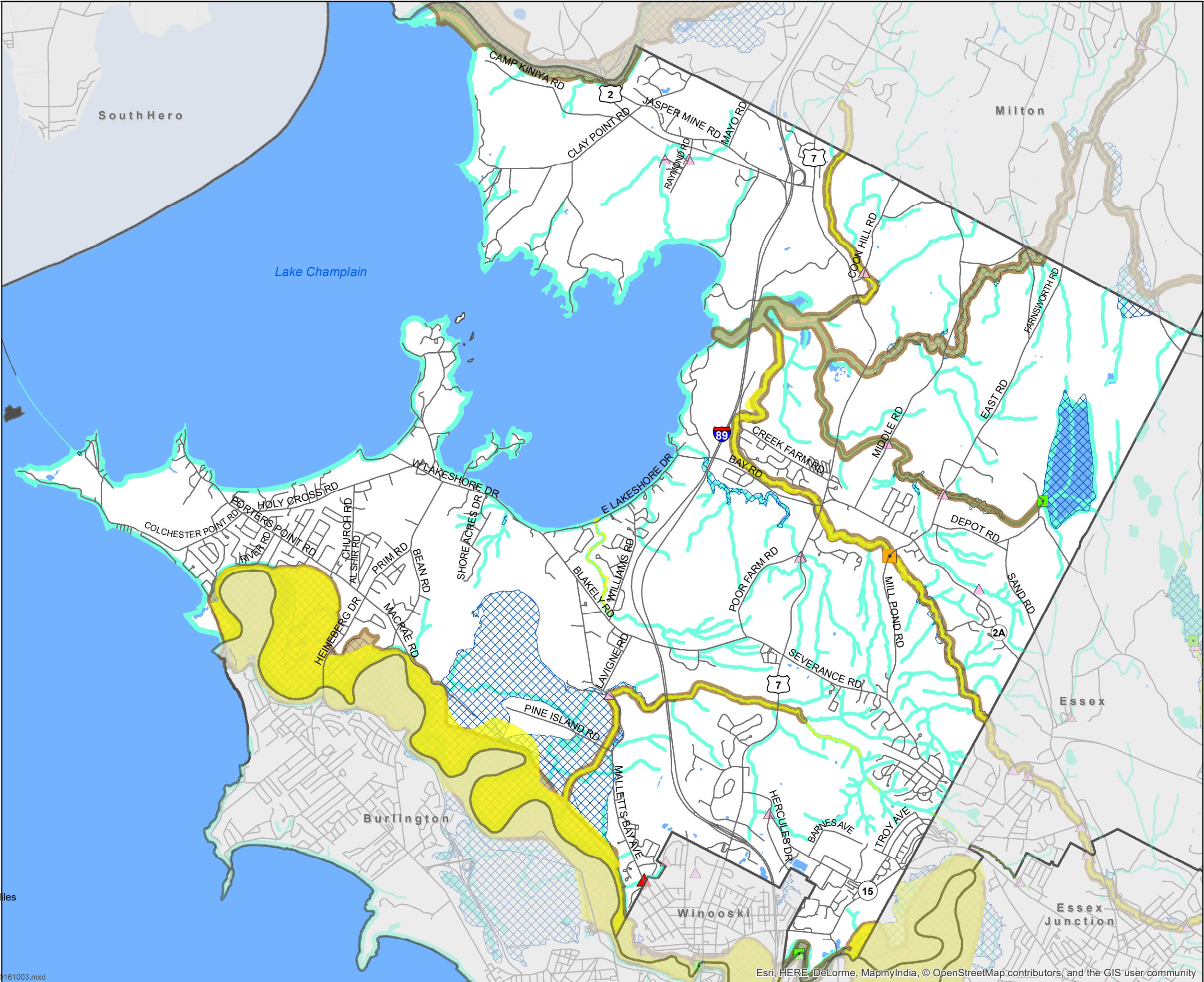
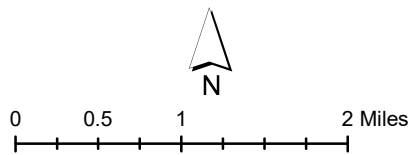


Figure 3.1
FEMA Public Assistance Projects
2017
Colchester, Vermont
All-Hazards Mitigation Plan

- Public Assistance Category**
- ✕ Debris Removal +
 - Debris Removal +
 - ◆ Protective Measures +
 - ▲ Roads & Bridges
 - Roads & Bridges
 - Water Control Facilities (Stormwater Management)
 - Public Buildings
 - Public Utilities
 - ✱ Recreational or Other
 - Recreational or Other



Note*: Some Debris removal and protective measures locations are shown at the location of the municipal office. This indicates assistance was at various locations throughout the municipality not that damages were incurred at the office.

DATA SOURCES:
Public Assistance Project Locations-FEMA, 2015

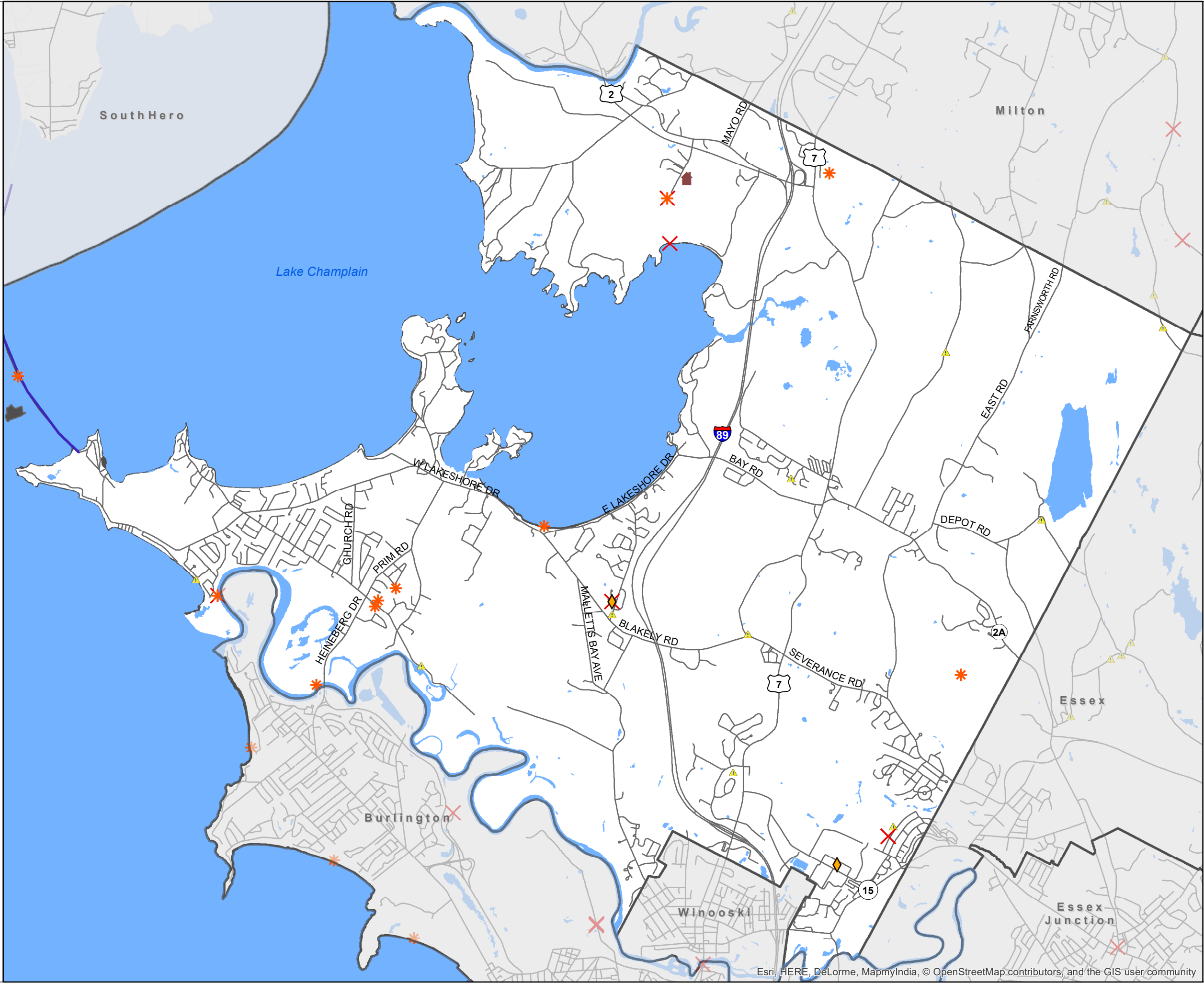
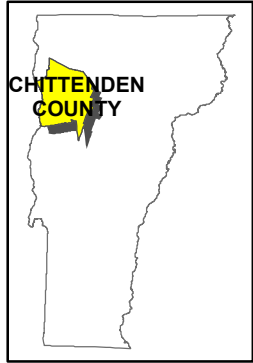


Figure 3.1.1 FEMA Individual Assistance Locations

Colchester, Vermont
2017 All-Hazards Mitigation Plan

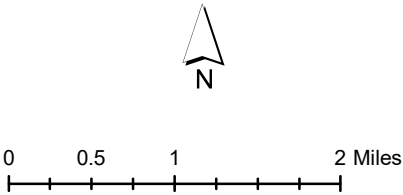
Number of Claims

June 2011 Disaster

- 1 - 2
- 3 - 4
- 5 - 6

September 2011 Disaster

- 1 - 2
- 3 - 4



DATA SOURCES:
Individual Assistance Claims Locations-FEMA, 2015

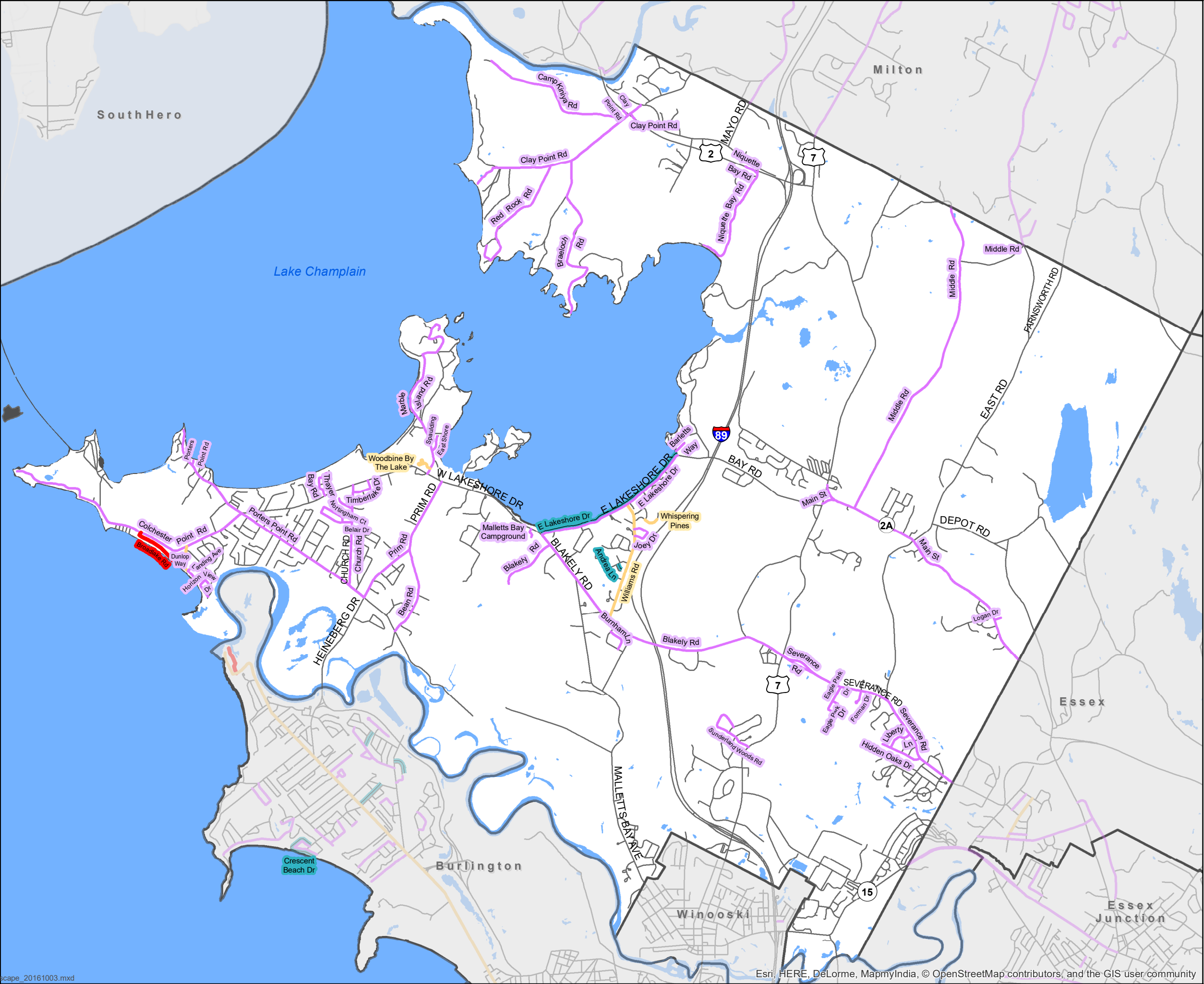
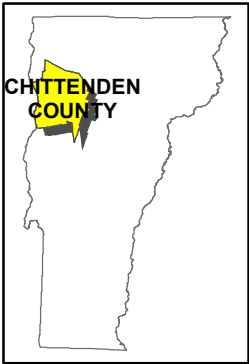


Figure 3.2 Stormwater Management

Colchester, Vermont
2017 All-Hazards Mitigation Plan

- Paved Road
- Gravel or Class 4 Road
- Hydrologically Connected Road Segment
- Stream Centerline
- Stormwater Pipe
- Stormwater Impaired Watershed
- Municipal Separate Storm Sewer System General Permit



0 0.5 1 2 Miles

DATA SOURCES:
Hydrologically Connected Roads - ANR, 2016
Paved, Gravel & Class 4 Roads - VTrans
MS4 area - ANR
Priority Surface Waters - 2014 List of Priority Surface Waters; ANR

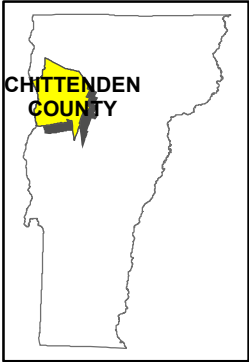


Figure 4.1

Vulnerable Populations

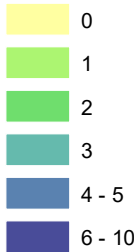
Colchester, Vermont

2017 All-Hazards Mitigation Plan

Census Tract Boundary**

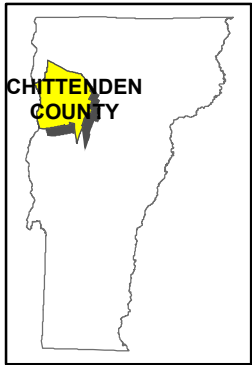
Social Vulnerability Index

Score by Census Tract



**Westford, Underhill, and Bolton are contained within one census tract. St. George and Hinesburg share the same census tract boundary. Huntington and Buels Gore also consist of one tract. All the other municipalities are broken down by one or more tracts. More urban communities have many more tracts as the optimal population for tract is 4,000 people. The minimum population threshold is 1,200 and the maximum is 8,000.

Note: The Social Vulnerability Index (SVI) draws together 16 different measures of vulnerability in three different themes: socioeconomic, demographic, and housing/transportation. The 16 individual measures include poverty, unemployment, per capita income, educational attainment, health insurance, children/elderly, single parent households, disability, minority, limited English, location of apartment buildings, mobile homes, crowding, no vehicle access, and population living in group quarters. The measures are combined to create relative vulnerability index. For every vulnerability measure, census tracts above the 90th percentile, or the most vulnerable 10%, are assigned a flag. The vulnerability index is created by counting the total number of flags in each census tract. It is important to remember that this Social Vulnerability Index is just a first step in screening for populations that may be more or less vulnerable to a variety of hazard. Depending on the situation, different measures could be more or less important and should be looked at more closely. These data are NOT saying that one census tract is more vulnerable than another. Rather it is saying that there is a higher concentration of various vulnerable population living within a tract and seeks to identify the conditions that make a population vulnerable.



DATA SOURCES:
Social Vulnerability Index, VDH, 2015
Census Tracts, US Census



0 0.5 1 2 Miles

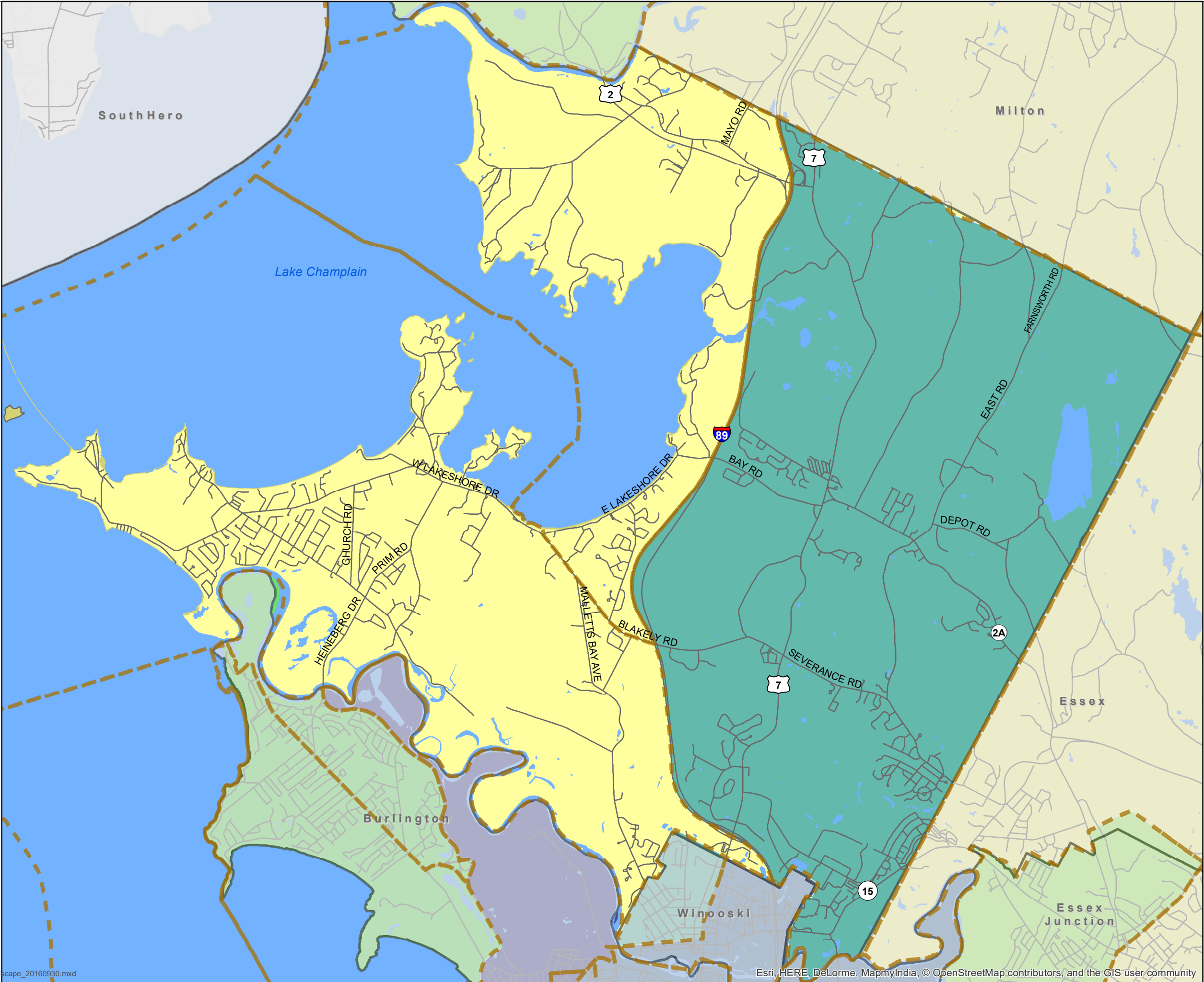


Figure 4.2 Land Development Trends

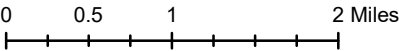
2017
Colchester, Vermont
All-Hazards
Mitigation Plan

Year Built for Residential and Non-residential Development

- Built 2010 or earlier
- Built 2011-2014

Digital Flood Insurance Rate Map

- Special Flood Hazard Area (100 Year Floodplain)
- River Corridor Protection Area (FEH)



DATA SOURCES:
Housing Units - CCRPC, 2014
CI Data-CCRPC, 2014
Special Flood Hazard Area - developed in 2011
by FEMA
River Corridor equals a rivers meander belt plus
buffer extension. See Floodready.vermont.gov for
more detail.

