

Town Center - No Critical Facilities Affected



Critical Facilities - None Within Projected Sea Level Rise Scenarios

MVCID	SITE_NAME	CATEGORY
4	Chilmark Town Hall	Primary Emergency Operations Center
4	Chilmark Town Hall	Town Hall
9	Chilmark Police Station	MassCare Center
9	Chilmark Police Station	Alternate Emergency Operations Center
9	Chilmark Police Station	Police Station
17	Chilmark Fire Department	Fire Department
18	Chilmark Fire Department - North Rd	Fire Department
30	Chilmark Elementary	School
50	Chilmark Community Center	MassCare Center
104	Menemsha Well	Public Well
115	Chilmark Harbor Master	Harbor Master Office
120	Chilmark DPW Equipment	Public Works Equipment Storage
129	Chilmark Spring Water	PW
130	Chilmark School Well	PW
131	Menemsha School Well	PW

Sea Level Rise Projection
based on 2010 LiDAR
elevation data & accounting
for MHHW
Chilmark, MA

Pre-Disaster Mitigation Plan

Sea Level Rise Scenarios: 1.5ft and 5ft
Mean High High Water Present Average
Offset from NAVD88 Datum = +1.0ft

- Affected Structures
- Bridges
- Dams
- Low to Moderate Hazard
- Critical Facilities
- Affected
- Not Affected
- Sea Level Rise
plus Mean High High Water Offset
- <= 2.5ft
- >2.5ft to 6.0ft
- Roads
- Primary Road
- Secondary Road
- Tertiary Road
- Critical Road Segment
- Town Boundary

A datum is a reference from which measurements are made. The datum indicates where zero is. For example, the top of a tree may be 30ft high from the ground but that same treetop is only 10ft high from the top of the neighboring rooftop.

NOTES:
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of June 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

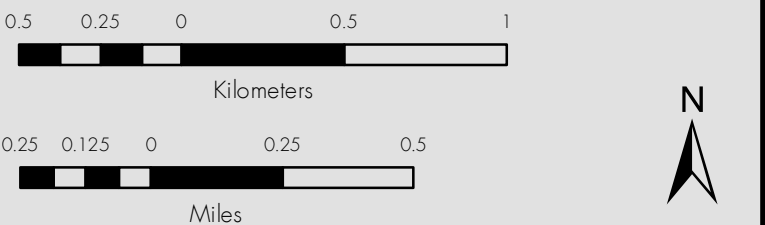
In 2010, LiDAR (Light Detection and Ranging) terrain data was collected along the coast of Martha's Vineyard and the Elizabeth Islands on behalf of FEMA. The data was processed by MassGIS into digital elevation models in geoTiff format. The elevation points, collected at 3ft spacing and two decimal point precision have a vertical accuracy of 0.47ft. The data exceed the required 1.19ft accuracy for 2ft contour generation.

The average offset between the MHHW tidal datum and the NAVD88 datum was calculated for the island by the MVC. Values were reported by NOAA (online at their Tides & Currents page) for three island tidal benchmarks: Menemsha, Vineyard Haven Harbor, and Edgartown Harbor. Based on those three sites, on average, MHHW is 1.06ft greater than NAVD88.

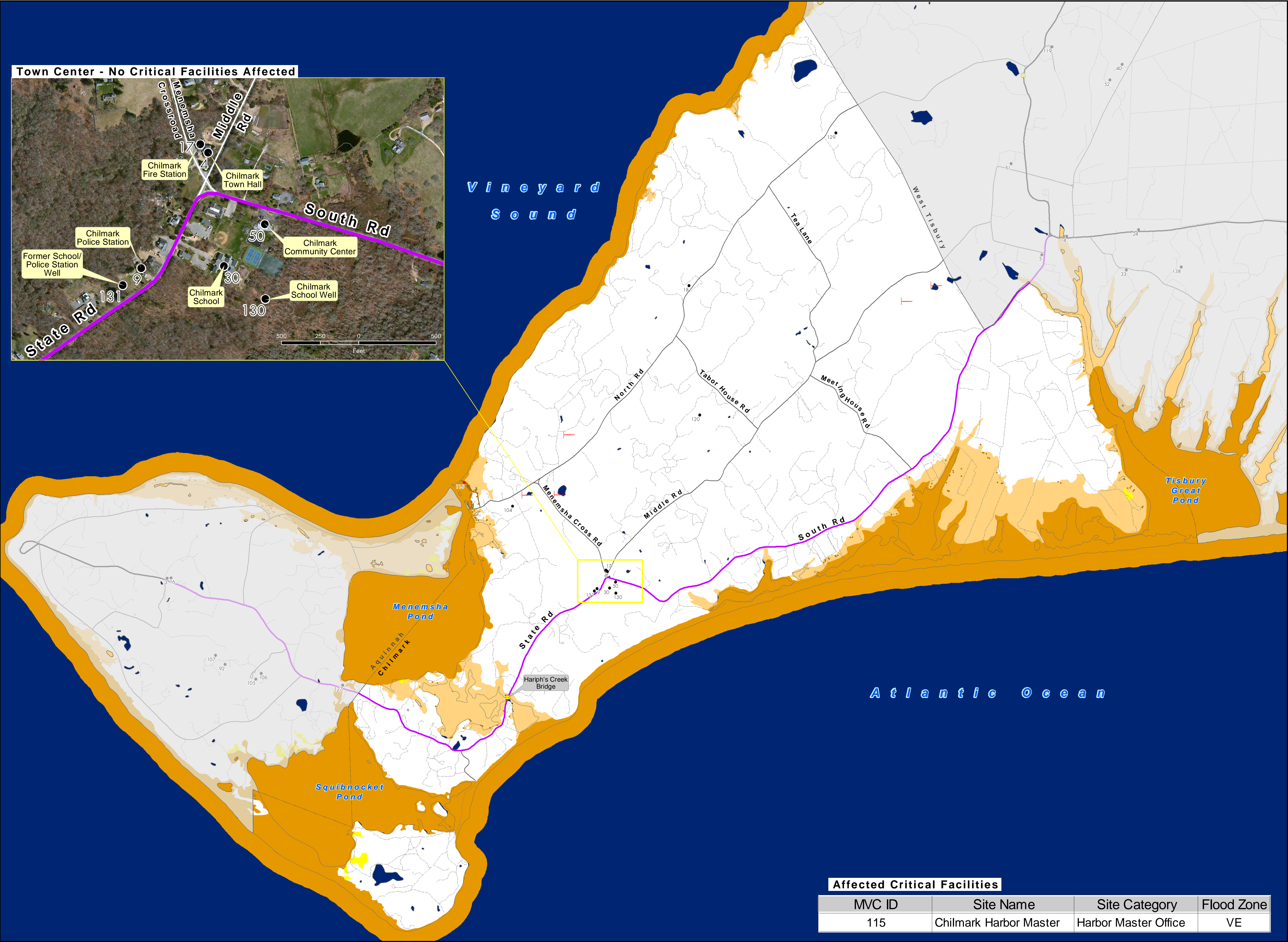
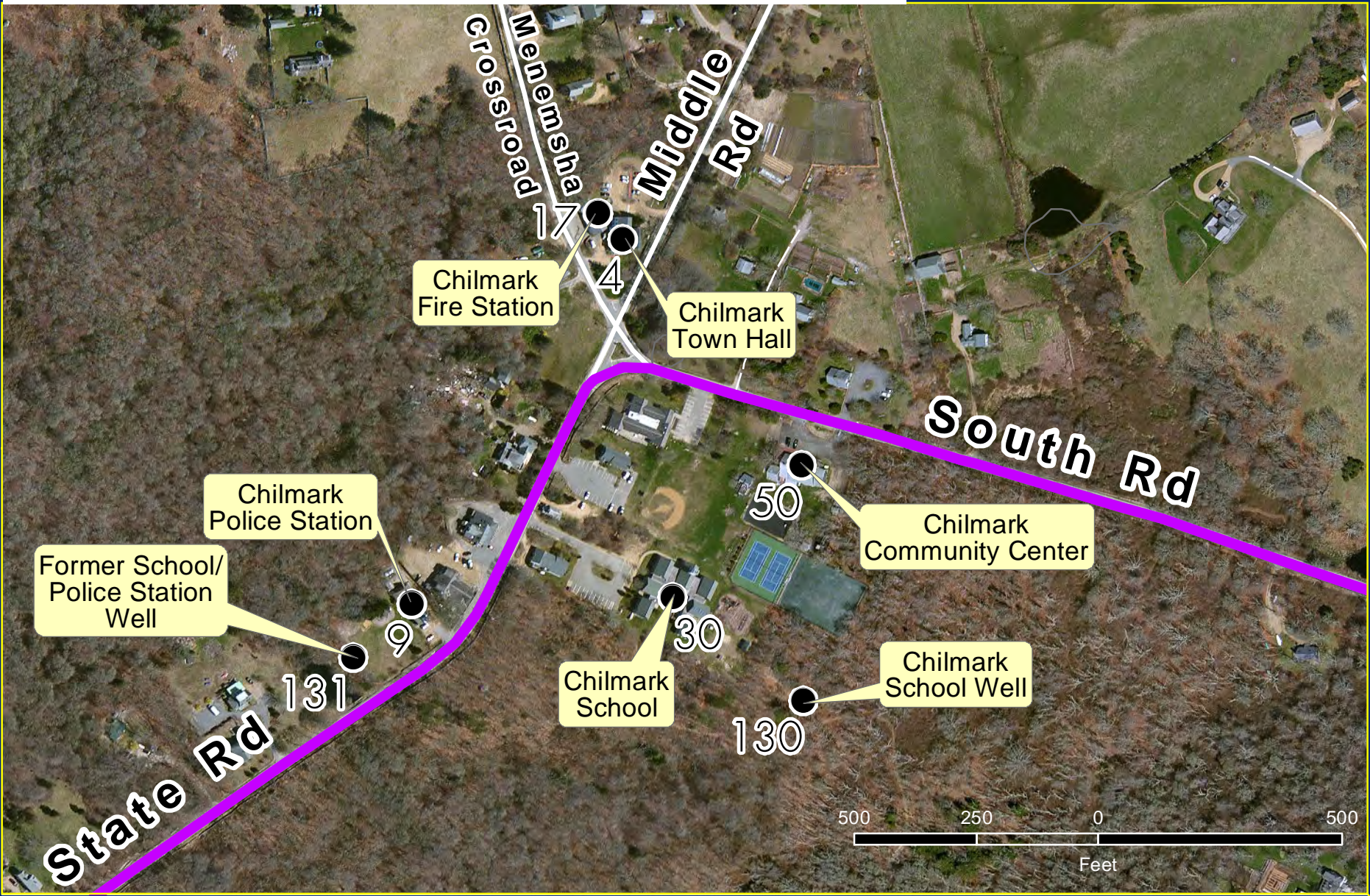
To account for this MHHW to NAVD88 offset, the MVC added an additional 1 foot to the sea level rise scenarios.

DISCLAIMER:
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Compiled By: Martha's Vineyard Commission, CL Seidel, 11/25/13, ph: 508-693-3453, www.mvcommission.org
Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 and MVC 2013; LiDAR Elevation Data - FEMA 2010 & MassGIS 2012; Aerial Photo - 2011 DigitalGlobe All Rights Reserved; Structures - MassGIS 2013 release from 2011 aerial photos
Projection: Stateplane, MA Mainland, NAD83, Meters
File: c:\c_pdm; Chi_Sealevel_MHHW_2013.mxd - Original in color



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Affected Critical Facilities

MVC ID	Site Name	Site Category	Flood Zone
115	Chilmark Harbor Master	Harbor Master Office	VE

100 & 500 Year Flood Map

Chilmark, MA

Pre-Disaster Mitigation Plan

- Affected Structures
- Bridges
- Dams
- Low to Moderate Hazard
- Critical Facilities
- Affected
- Not Affected
- Flood Zones*
- 100 Year (VE Zone)
- 100 Year (AE Zone)
- 500 Year Zone
- Roads
- Primary Road
- Secondary Road
- Tertiary Road
- Critical Road Segment
- Town Boundary

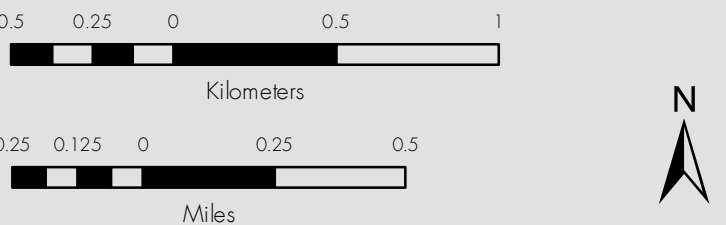
*Data provided by FEMA - Preliminary DFIRM June 2013

NOTES:
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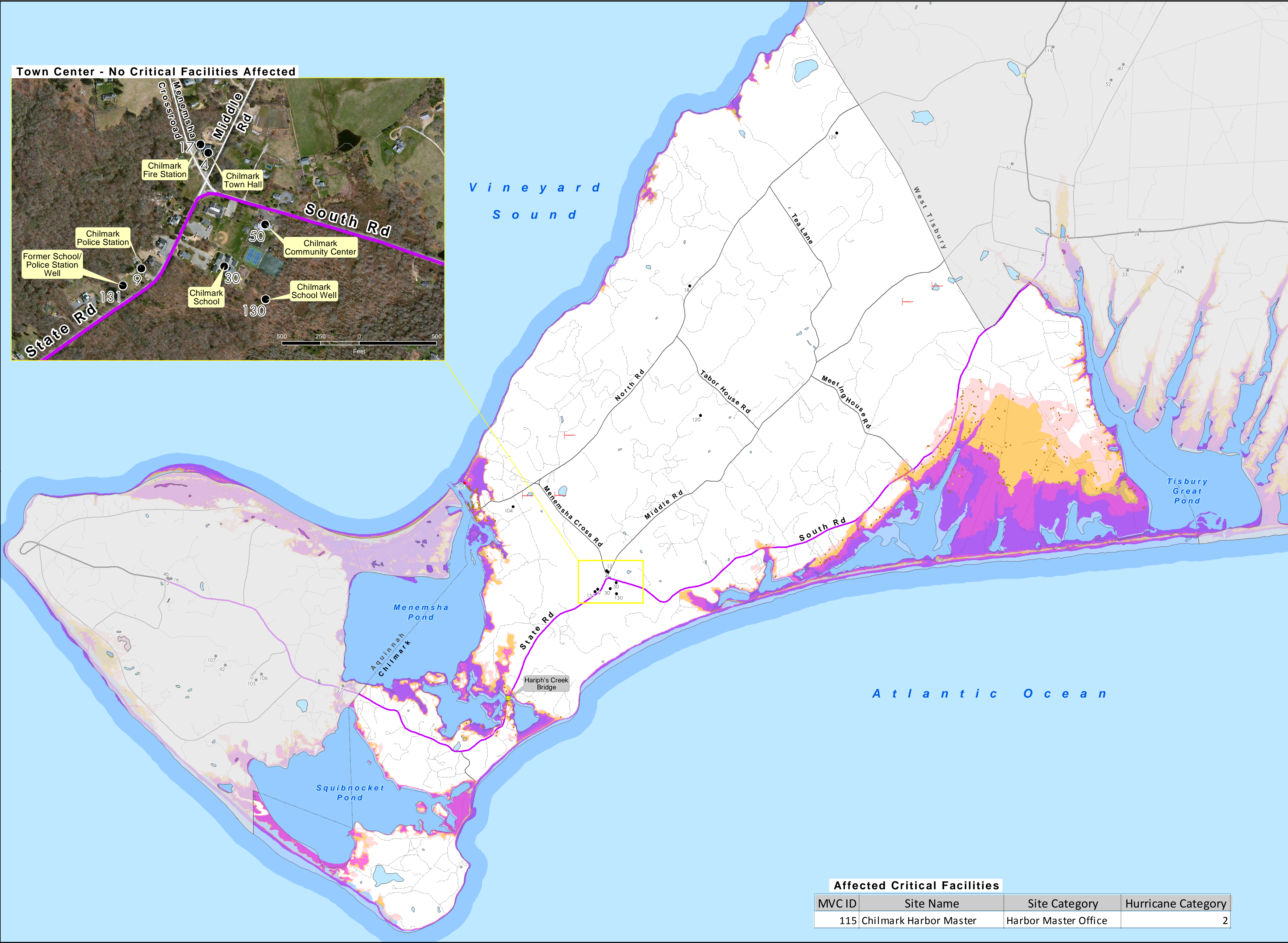
The 100 year & 500 year flood areas represent a subset of the data available on the paper Flood Insurance Rate Maps (FIRM) as provided by the Federal Emergency Management Agency (FEMA). These data were developed by FEMA to support floodplain management and planning activities but do not replace the official paper FIRMs. These data are not suitable for engineering applications or site work nor can the data be used to determine absolute delineations of flood boundaries. Instead the data should be used to portray zones of uncertainty and possible risks associated with flooding. These data do not replace the paper FIRMs which remain the official documents.

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Compiled By: Martha's Vineyard Commission, CL Seidel, 8/26/13, ph. 508-693-3453, www.mvcommission.org
Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 & MVC 2013; Flood Data - Preliminary DFIRM FEMA June 2013; Aerial Photo - 2011 DigitalGlobe All Rights Reserved; Structures - MassGIS 2013 release from 2011 aerial photos
Projection: Stateplane, MA Mainland, NAD83, Meters
File: cls_pdm; Chi_dfirm_prelim_2013.mxd - Original in color



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Affected Critical Facilities

MVC ID	Site Name	Site Category	Hurricane Category
115	Chilmark Harbor Master	Harbor Master Office	2

Hurricane Surge Inundation and Hurricane Tracks Chilmark, MA

Pre-Disaster Mitigation Plan

- Affected Structures
- Bridges
- Dams
- Low to Moderate Hazard
- Critical Facilities
- Affected
- Not Affected
- FEMA 100 Year Flood Zone*
- Hurricane Surge Inundation (Flooding) Worst Case Scenario
- Category 1
- Category 2
- Category 3
- Category 4
- Roads
- Primary Road
- Secondary Road
- Tertiary Road
- Critical Road Segment
- Town Boundary

*Data provided by FEMA - Preliminary DFIRM June 2013

NOTES:
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

Per USACE:
Hurricane surge elevations were determined by the National Hurricane Center using the PV2 SLOSH model basin, and assumed peak hurricane surge arriving at mean high water.

The hurricane surge inundation areas shown on this map depict the inundation that can be expected to result from a worst case combination of hurricane landfall location, forward speed, and direction for each hurricane category."

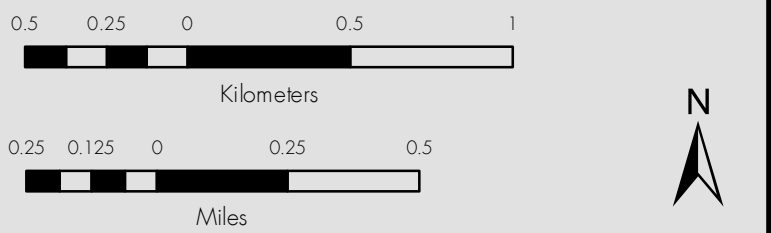
"The primary elevation data source was LiDAR data collected from Nov 2009 to Feb 2010 by Camp Dresser and McKee. This data was supplemented with MassGIS Digital Terrain Model (DTM) files which were made available in April 2003."

ACCURACY:
SLOSH Model Elevation Data: +/-20 percent
LiDAR Elevation Data: +/-0.5ft vertical; +/-1ft horizontal
Shoreline Data: Less accurate than LiDAR; Hence, discrepancies will be visibly noticeable when displayed together.

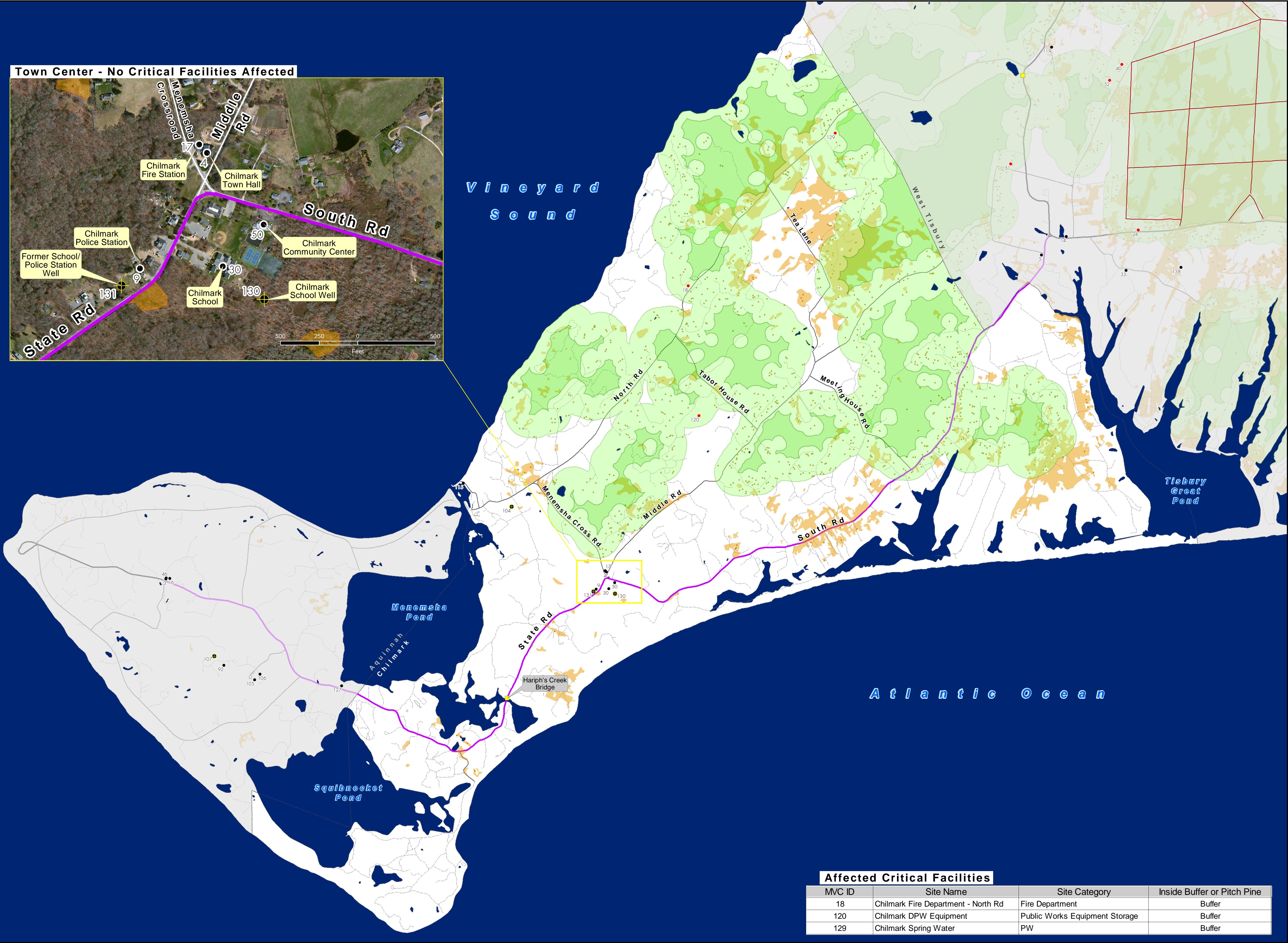
DISCLAIMER:
Data provided are for planning purposes only. The data are not adequate for boundary determination or regulatory interpretation. Nor should these data be considered an absolute representation indicating which areas can expect to be flooded by hurricane storm surge for a particular category. The MVC cannot be responsible for how these data are used or interpreted by the end user.

Compiled By: Martha's Vineyard Commission, CL Seidel, 8/27/13, ph. 508-693-3453, www.mvcommission.org

Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 and MVC 2013; Inundation Areas - USACE 2013; Hurricane Track - NOAA; Flood Zone - FEMA Preliminary June 2013
Projection: Stateplane, MA Mainland, NAD83, Meters
File: cls_pdm; Chi_HurrSLOSH_2013_v2.mxd - Original in color



Town Center - No Critical Facilities Affected



Affected Critical Facilities

MVC ID	Site Name	Site Category	Inside Buffer or Pitch Pine
18	Chilmark Fire Department - North Rd	Fire Department	Buffer
120	Chilmark DPW Equipment	Public Works Equipment Storage	Buffer
129	Chilmark Spring Water	PW	Buffer

Wildland
Urban
Interface
Chilmark, MA

Pre-Disaster Mitigation Plan

- Contiguous Woodlands
area ≥ 50 acres
1000ft Buffer Area
- Vegetation
Pitch Pine or Shrub Oak
Affected Structures
Bridges
Critical Road Segment
- Critical Facilities
Affected
Affected Public Well
Not Affected
Not Affected Public Well
- Roads
Primary Road
Secondary Road
Tertiary Road
Fire Lane
Town Boundary

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Woodlands habitat was identified from the 2005 land use data from MassGIS. Non-forest land uses were buffered 250ft and the forest area that did not overlap the non-forest plus 250ft was retained. Those contiguous forest areas of 50 acres or more are represented in this data layer.

A structure is considered within the wildlife threat area if it is within a contiguous 50 acre woodland area or within its 1000ft buffer area or within the existing pitch pine/shrub oak area.

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Compiled By: Martha's Vineyard Commission, CL Seidel, 8/28/13, ph. 508-693-3453, www.mvcommission.org
Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 & MVC 2013; Woodlands - MassGIS 2005 & MVC 2013; Vegetation - TNC 2005; Structures - MassGIS 2011 (released 2013) & MVC 2013; Fire Lane - MVC 2005
Projection: Stateplane, MA Mainland, NAD83, Meters
File: cls_pdm; Chi_WildFire_2013.mxd - Original in color

