

Annex I Town of Morrisville

I.1 PLANNING PROCESS

The table below lists the HMPC members who represented the Town of Morrisville.

Table I.1 – HMPC Members

| Agency | Representative | Position or Title |
|---------------------|-----------------|---------------------|
| Planning Department | Brad West | Planner |
| Planning Department | Dylan Bruchhaus | Planner |
| N/A | Steve Botha | Citizen Stakeholder |

I.2 COMMUNITY PROFILE

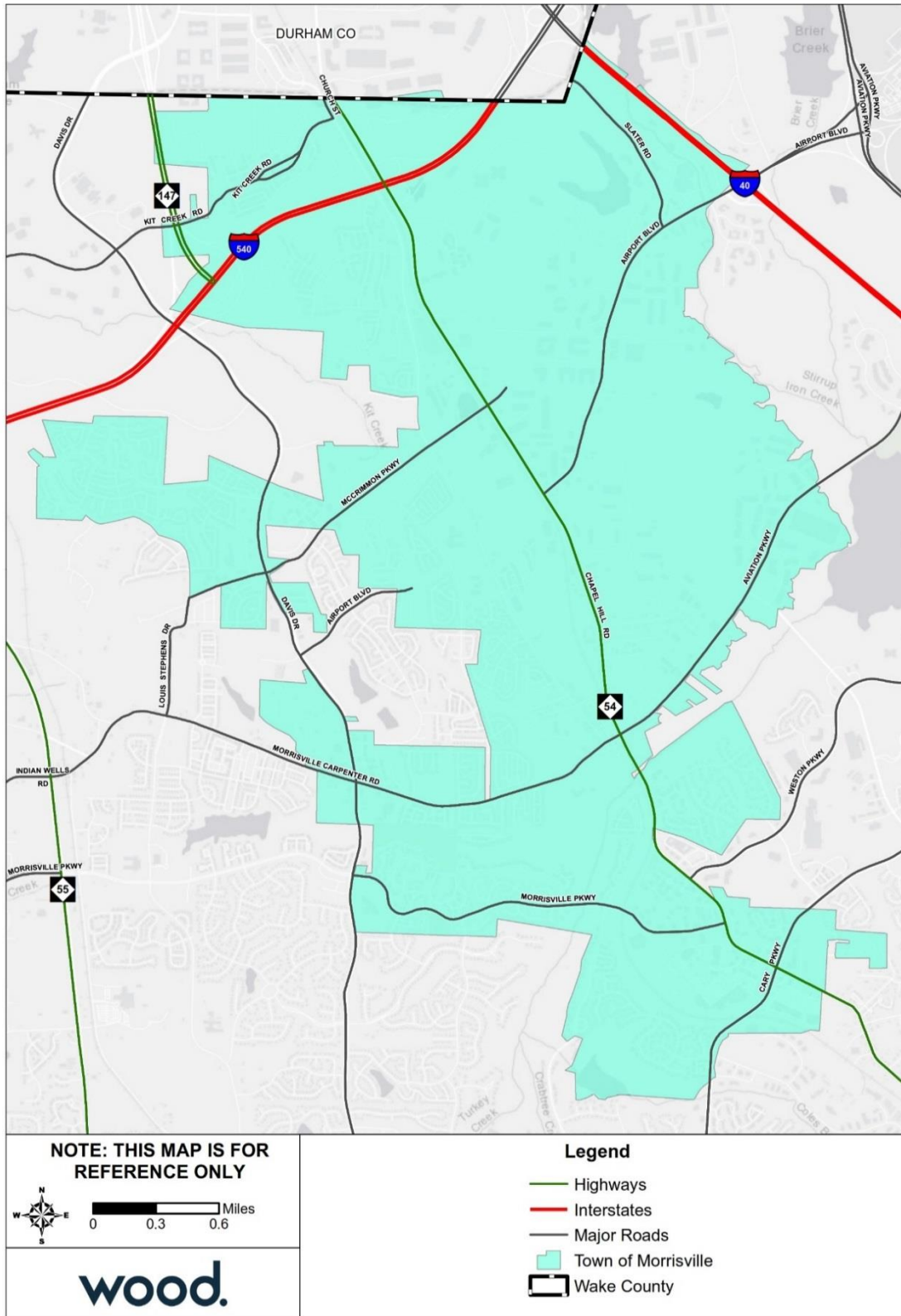
Geography

The Town of Morrisville is located in western Wake County. A small portion of the Town extends west into Durham County. All statistics summarized in this section are for the entirety of the Town of Morrisville. It is surrounded by Cary on its eastern, southern, and southwestern sides and by RTP to the northwest and Durham County to the north. The Town is part of the Raleigh, NC Metropolitan Statistical Area, which falls within the larger Raleigh-Durham-Chapel Hill, NC Combined Statistical Area. Morrisville comprises a total land area of 8.3 square miles.

According to data from the U.S. Fish and Wildlife Service’s National Wetlands Inventory, there are approximately 1,002 acres of wetlands in Morrisville.

Figure I.1 shows a base map of major transportation routes in the Town of Morrisville.

Figure I.1 – Major Transportation Routes – Town of Morrisville



Source: Wake County GIS Open Data

Population and Demographics

Table I.2 provides population counts and growth estimates for Morrisville as compared to the County overall. Table I.3 provides demographic information for Morrisville as compared to the whole County.

Table I.2 – Population Counts, Morrisville, 2010-2017

| Jurisdiction | 2000 Census Population | 2010 Census Population | 2017 ACS Population Estimate | Total Change 2010-2017 | % Change 2010-2017 |
|--------------------------|------------------------|------------------------|------------------------------|------------------------|--------------------|
| Wake County total | 627,846 | 900,993 | 1,023,811 | 122,818 | 13.6% |
| Town of Morrisville | 5,208 | 18,576 | 23,873 | 5,297 | 28.5% |

Source: US Census Bureau Decennial Census 2000, Decennial Census 2010; American Community Survey 2013-2017 5-Year Estimates

Table I.3 – Racial Demographics, Morrisville, 2017

| Jurisdiction | White, % | Black, % | Asian, % | Other Race, % | Two or More Races, % | Persons of Hispanic or Latino Origin*, % |
|--------------------------|--------------|--------------|-------------|---------------|----------------------|------------------------------------------|
| Wake County total | 66.5% | 20.4% | 6.5% | 3.6% | 2.7% | 10.0% |
| Town of Morrisville | 44.3% | 12.1% | 37.0% | 1.2% | 4.8% | 4.5% |

Source: US Census Bureau, American Community Survey 2013-2017 5-Year Estimates

*Persons of Hispanic origin may be of any race, so also are included in applicable race categories

Asset Inventory

The following tables summarize the asset inventory for Morrisville in order to estimate the total physical exposure to hazards in this area. The locations of critical facilities are shown in Figure I.2 on the following page. Critical facilities are a subset of identified assets from the Critical Infrastructure & Key Resources dataset. Note that the counts are by building; where a critical facility comprises a cluster of buildings, each building is counted and displayed.

Table I.4 – Critical Infrastructure & Key Resources by Type

| Jurisdiction | Food & Agriculture | Banking & Finance | Chemical | Commercial Facilities | Communications | Manufacturing | Defense | Government | Healthcare | IT | National Monuments | Nuclear | Postal & Shipping | Transportation | Energy | Emergency Services | Water | Other | Total |
|---------------------|--------------------|-------------------|----------|-----------------------|----------------|---------------|---------|------------|------------|----|--------------------|---------|-------------------|----------------|--------|--------------------|-------|-------|-------|
| Town of Morrisville | 2 | 5 | 0 | 162 | 1 | 142 | 1 | 31 | 2 | 0 | 0 | 0 | 0 | 40 | 0 | 2 | 0 | 0 | 388 |

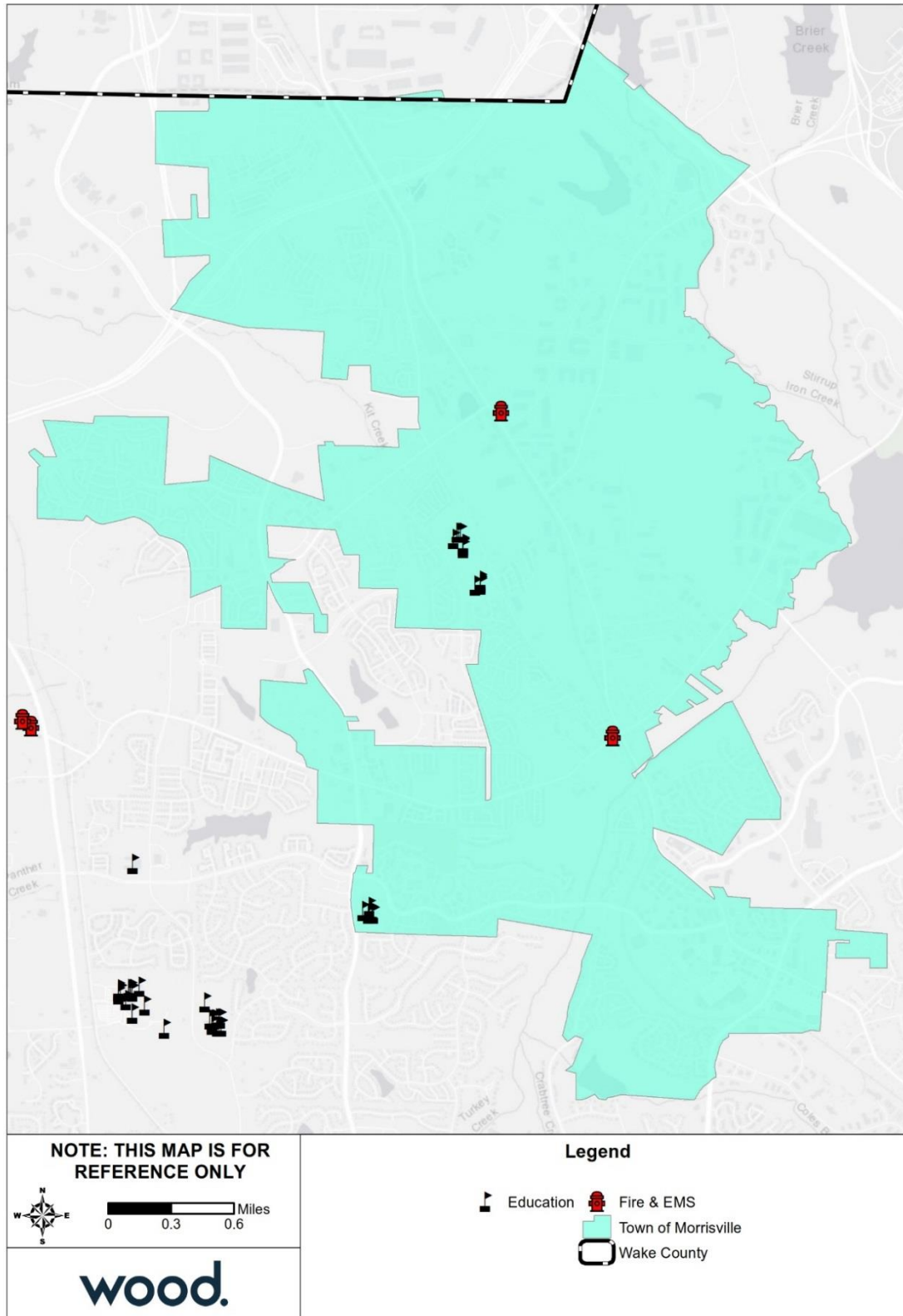
Source: NCEM Risk Management Tool

Table I.5 – High Potential Loss Facilities by Use

| Jurisdiction | Residential | Commercial | Industrial | Government | Agricultural | Religious | Utilities | Other | Total |
|---------------------|-------------|------------|------------|------------|--------------|-----------|-----------|-------|-------|
| Town of Morrisville | 148 | 100 | 59 | 10 | 0 | 7 | 0 | 0 | 324 |

Source: NCEM Risk Management Tool

Figure I.2 – Critical Facilities, Town of Morrisville



Source: NCEM IRISK Database, GIS Analysis

ANNEX I: TOWN OF MORRISVILLE

To supplement the asset inventory and provide a clearer picture of the current asset exposure in the Town of Morrisville, current parcel data was evaluated to identify development since 2010. This information is not incorporated into the risk assessment, which was prepared using NCEM’s IRISK database. However, this summary of development since 2010 provides some context to understand the degree to which the IRISK exposure and vulnerability numbers differ from current conditions.

Table I.6 provides a summary by land class of parcel development from January 2011 to April 2019.

Table I.6 – Parcels Developed 2011 or Later, Town of Morrisville

| Land Class | Number of Parcels | Sum of Building Value |
|--------------------------------|-------------------|-----------------------|
| Apartment | 3 | \$68,721,018 |
| Commercial | 30 | \$289,612,514 |
| Condo Complex | 3 | - |
| EXEMPT | 6 | \$24,423,462 |
| HOA | 3 | \$522,814 |
| Residential Less Than 10 Acres | 1,640 | \$396,594,033 |
| Grand Total | 1,685 | \$779,873,841 |

Source: Wake County Open Data; retrieved April 8, 2019

There are three listings on the National Register of Historic Places for the Town of Morrisville. These sites are listed in the table below.

Table I.7 – Historic Properties

| Ref# | Property Name | Status Date | Category | City |
|----------|------------------------------|-------------|----------|-------------|
| 12000218 | Page, Williamson, House | 4/16/2012 | Building | Morrisville |
| 12000913 | Morrisville Christian Church | 11/6/2012 | Building | Morrisville |
| 14000334 | Pugh House | 6/19/2014 | Building | Morrisville |

Source: National Parks Service, National Register of Historic Places, October 2018

Housing

The following table details key housing statistics for Morrisville as compared to the County overall.

Table I.8 – Housing Statistics, Morrisville, 2010-2017

| Jurisdiction | Housing Units (2010) | Housing Units (2017) | Housing Units Percent Change (2010-2017) | Owner-Occupied, % (2017) | Vacant Units, % (2017) | Median Home Value (2017) |
|--------------------------|----------------------|----------------------|------------------------------------------|--------------------------|------------------------|--------------------------|
| Wake County total | 371,836 | 411,632 | 10.7% | 59.5% | 7.2% | \$250,700 |
| Town of Morrisville | 8,357 | 9,365 | 12.1% | 45.8% | 6.0% | \$304,500 |

Source: U.S. Census Bureau 2010 Decennial Census, American Community Survey 2013-2017 5-Year Estimates

Note: Owner-Occupied and vacant-unit measures are reported as a percent of the total number of housing units.

Economy

The following tables present key economic statistics for Morrisville as compared to the County overall.

Table I.9 – Employment Statistics, Morrisville, 2017

| Jurisdiction | Population in Labor Force | Percent Employed* (%) | Percent Unemployed* (%) | Percent Not in Labor Force* (%) | Unemployment Rate (%) |
|---------------------|---------------------------|-----------------------|-------------------------|---------------------------------|-----------------------|
| Wake County | 564,096 | 67.2 | 3.5 | 29.2 | 4.9 |
| Town of Morrisville | 13,403 | 73.9 | 3.0 | 23.0 | 3.9 |

Source: U.S. Census Bureau, American Community Survey 2013-2017 5-Year Estimates

Note: This table reports only the civilian labor force. The labor force in armed services accounted for 0.3% or less of the population 16 and over in all jurisdictions. *Population employed, population unemployed, and Population not in labor force are reported as a percent of the total population aged 16 years and older.

Table I.10 – Percent of Employed Population by Occupation, Morrisville, 2017

| Occupation | Management, business, science and arts (%) | Service (%) | Sales and Office (%) | Natural Resources, Construction, and Maintenance (%) | Production, transportation, and material moving (%) |
|---------------------|--------------------------------------------|-------------|----------------------|------------------------------------------------------|-----------------------------------------------------|
| Wake County | 50.1 | 13.8 | 23.4 | 6.0 | 6.7 |
| Town of Morrisville | 65.5 | 8.1 | 17.6 | 3.0 | 5.8 |

Source: U.S. Census Bureau, American Community Survey 2013-2017 5-Year Estimates

I.3 RISK ASSESSMENT

This section contains a hazard profile and vulnerability assessment for those hazards that were rated with a higher priority for the Town of Morrisville than for Wake County as a whole. Risk and vulnerability findings are also presented here for those hazards that are spatially defined and have variations in risk that could be evaluated quantitatively on a jurisdictional level. The hazards included in this section are: Flood and Wildfire.

I.3.1 Flood

Table I.11 details the acreage of the Town of Morrisville by flood zone on the effective DFIRM. Per this assessment, over 6 percent of Morrisville falls within the mapped 1%-annual-chance floodplains.

Table I.11 – Flood Zone Acreage, Town of Morrisville

| Flood Zone | Acreage | Percent of Total (%) |
|-------------------|------------------|----------------------|
| Zone A | 72.83 | 0.13 |
| Zone AE | 3,629.18 | 6.43 |
| Zone X (500-year) | 402.17 | 0.71 |
| Zone X Unshaded | 52,339.67 | 92.73 |
| Total | 56,443.85 | -- |

Source: FEMA Effective DFIRM; Wake County GIS

Figure I.3 reflects the effective mapped flood hazard zones for Town of Morrisville, and Figure I.4 displays the depth of flooding estimated to occur in these areas during the 1%-annual-chance flood.

To supplement the IRISK assessment of property at risk from the 1% annual chance flood event in Section 4 and provide a clearer picture of the current property at risk in the Town of Morrisville, current parcel data was evaluated to identify parcels developed since 2010. Using GIS analysis, parcels developed after 2010 were compared to the boundaries of the 1% annual chance floodplain to identify the exposure of newly developed property to the base flood. In most cases, a parcel was considered exposed to the floodplain if any portion of the parcel was located in the floodplain.

This assessment does not evaluate flood impacts or provide damage estimates. However, this summary of development in or near the floodplain since 2010 provides some context to understand the degree to which the IRISK exposure and vulnerability numbers differ from current conditions.

Table I.12 provides a summary by land class of parcel development located in the 1% annual chance floodplain from January 2011 to April 2019.

Table I.12 – Parcels Developed 2011 or Later and Located in 100-Year Floodplain, Town of Morrisville

| Land Class | Number of Parcels | Sum of Building Value |
|--------------------------------|-------------------|-----------------------|
| Apartment | 1 | \$20,141,513 |
| Commercial | 8 | \$184,625,269 |
| Residential Less Than 10 Acres | 3 | \$1,302,487 |
| Grand Total | 12 | \$206,069,269 |

Source: Wake County Open Data; retrieved April 8, 2019; FEMA Effective DFIRM

Table I.13 provides building counts and estimated damages for Critical Infrastructure and Key Resources (CIKR) buildings by sector and flood event in the Town of Morrisville. Table B.14 provides counts and estimated damages for High Potential Loss Properties in the Town of Morrisville.

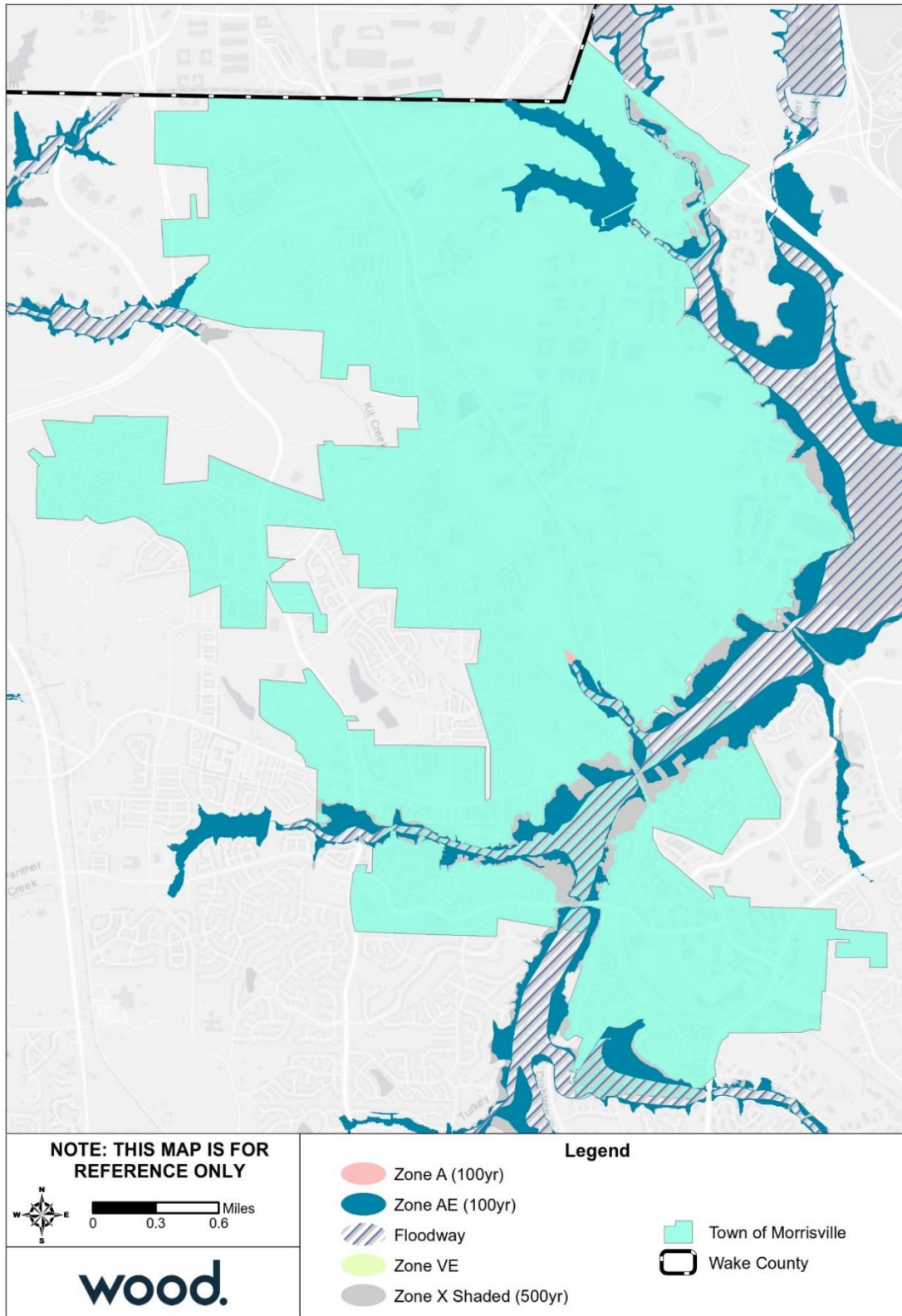
Table I.13 – Critical Facilities Exposed to Flooding, Town of Morrisville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 1 | \$199 |
| All Categories | 100 Year | 1 | \$199 |

Table I.14 – High Potential Loss Properties Exposed to Flooding, Town of Morrisville

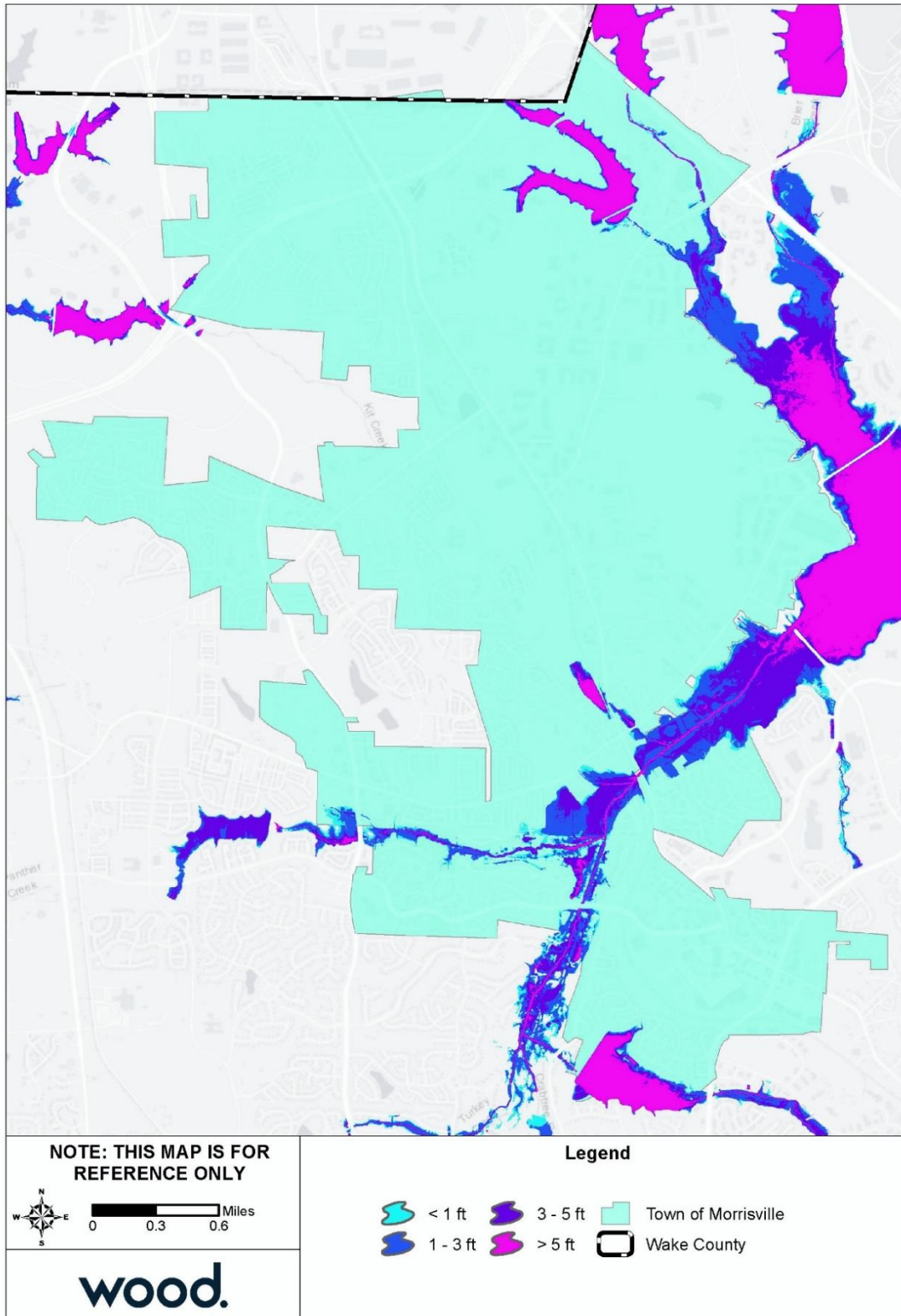
| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Residential | 100 Year | 1 | \$115,869 |
| All Categories | 100 Year | 1 | \$115,869 |

Figure I.3 – FEMA Flood Hazard Areas, Town of Morrisville



Source: FEMA Effective DFIRM

Figure I.4 – Flood Depth, 1%-Annual-Chance Floodplain, Town of Morrisville



Source: FEMA Effective DFIRM

I.3.2 Wildfire

Table I.15 summarizes the acreage in the Town of Morrisville that falls within the Wildland Urban Interface (WUI), categorized by housing density. Areas in the WUI are those where development may intermix with flammable vegetation. Over 14% percent of the Town of Morrisville is not included in the WUI.

Table I.15 – Wildland Urban Interface Acreage, Town of Morrisville

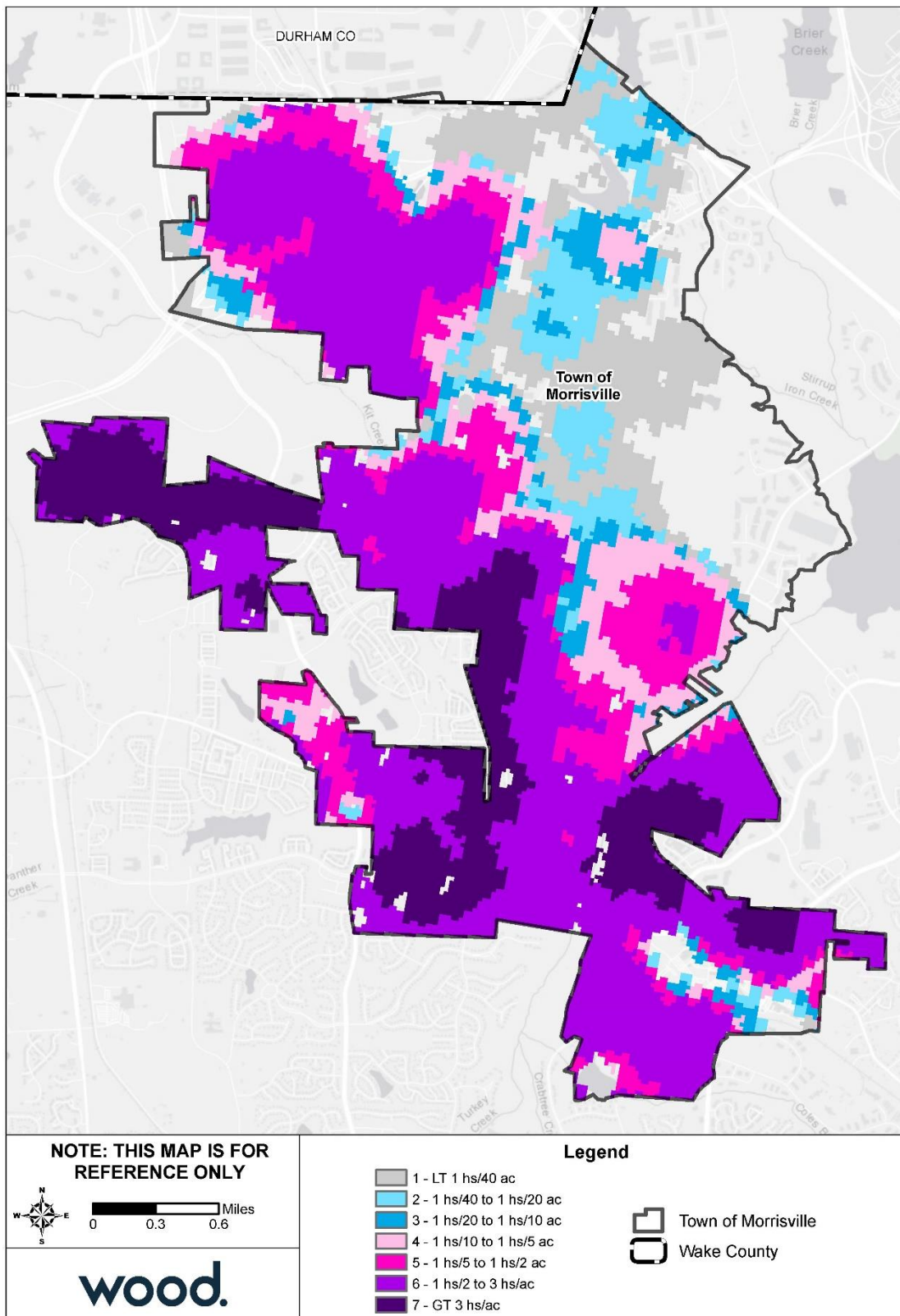
| | Housing Density | Total Acreage | Percent of Total Acreage |
|--|----------------------|----------------|--------------------------|
| | <i>Not in WUI</i> | 896.8 | 14.6% |
| | LT 1hs/40ac | 607.9 | 9.9% |
| | 1hs/40ac to 1hs/20ac | 359.4 | 5.8% |
| | 1hs/20ac to 1hs/10ac | 256.6 | 4.2% |
| | 1hs/10ac to 1hs/5ac | 450.7 | 7.3% |
| | 1hs/5ac to 1hs/2ac | 655.5 | 10.6% |
| | 1hs/2ac to 3hs/1ac | 2,104.9 | 34.2% |
| | GT 3hs/1ac | 826.6 | 13.4% |
| | Total | 6,158.4 | |

Source: Southern Wildfire Risk Assessment

Figure I.5 depicts the WUI for the Town of Morrisville. The WUI is the area where housing development is built near or among areas of vegetation that may be prone to wildfire. Figure I.6 depicts the Fire Intensity Scale, which indicates the potential severity of fire based on fuel loads, topography, and other factors. Figure I.7 depicts Burn Probability based on landscape conditions, percentile weather, historical ignition patterns, and historical prevention and suppression efforts.

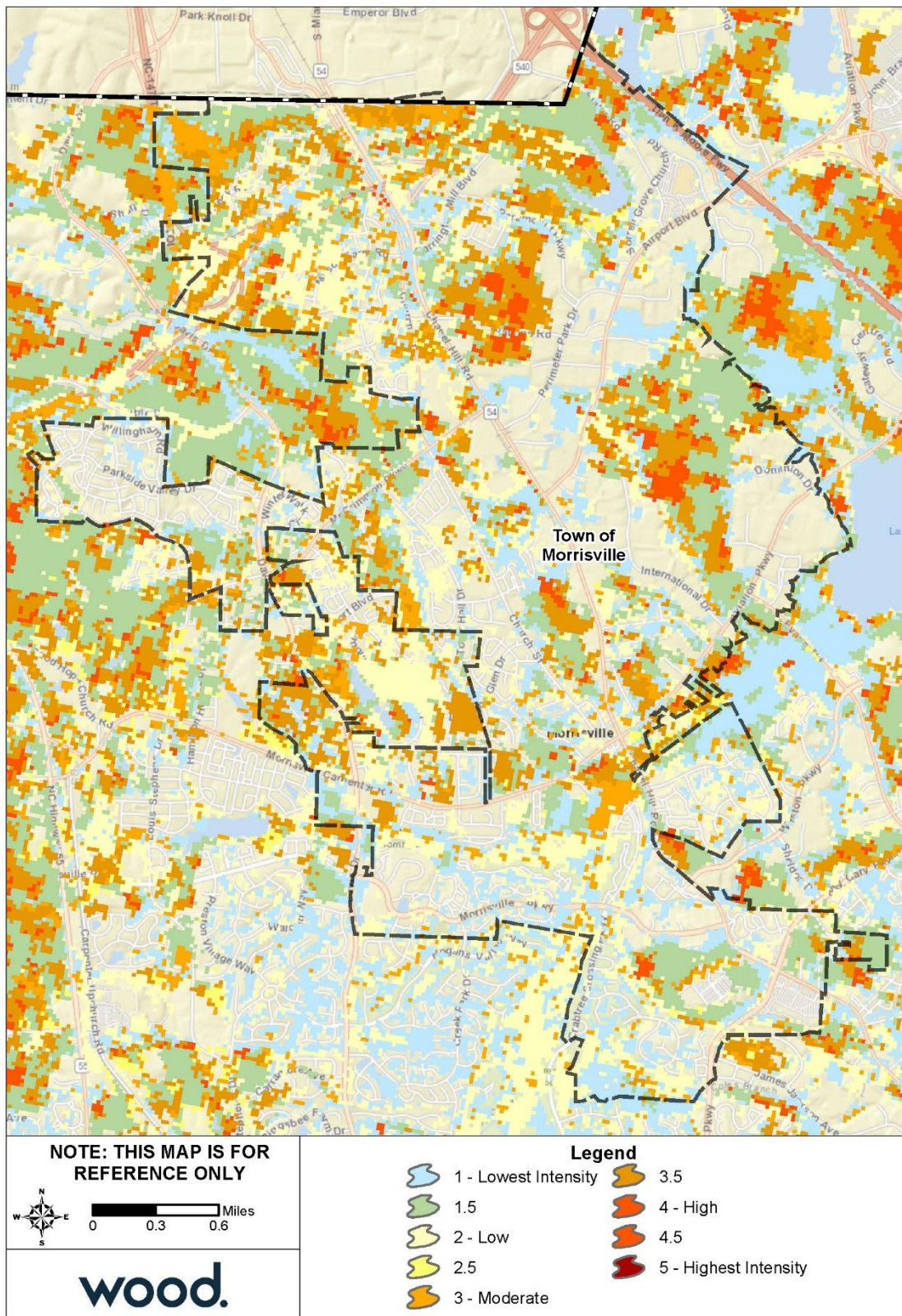
North and east Morrisville have the highest potential fire intensity in two concentrated pockets. These pockets, however, are largely outside of the WUI. The town has a relatively low burn probability, as well.

Figure I.5 – Wildland Urban Interface, Town of Morrisville



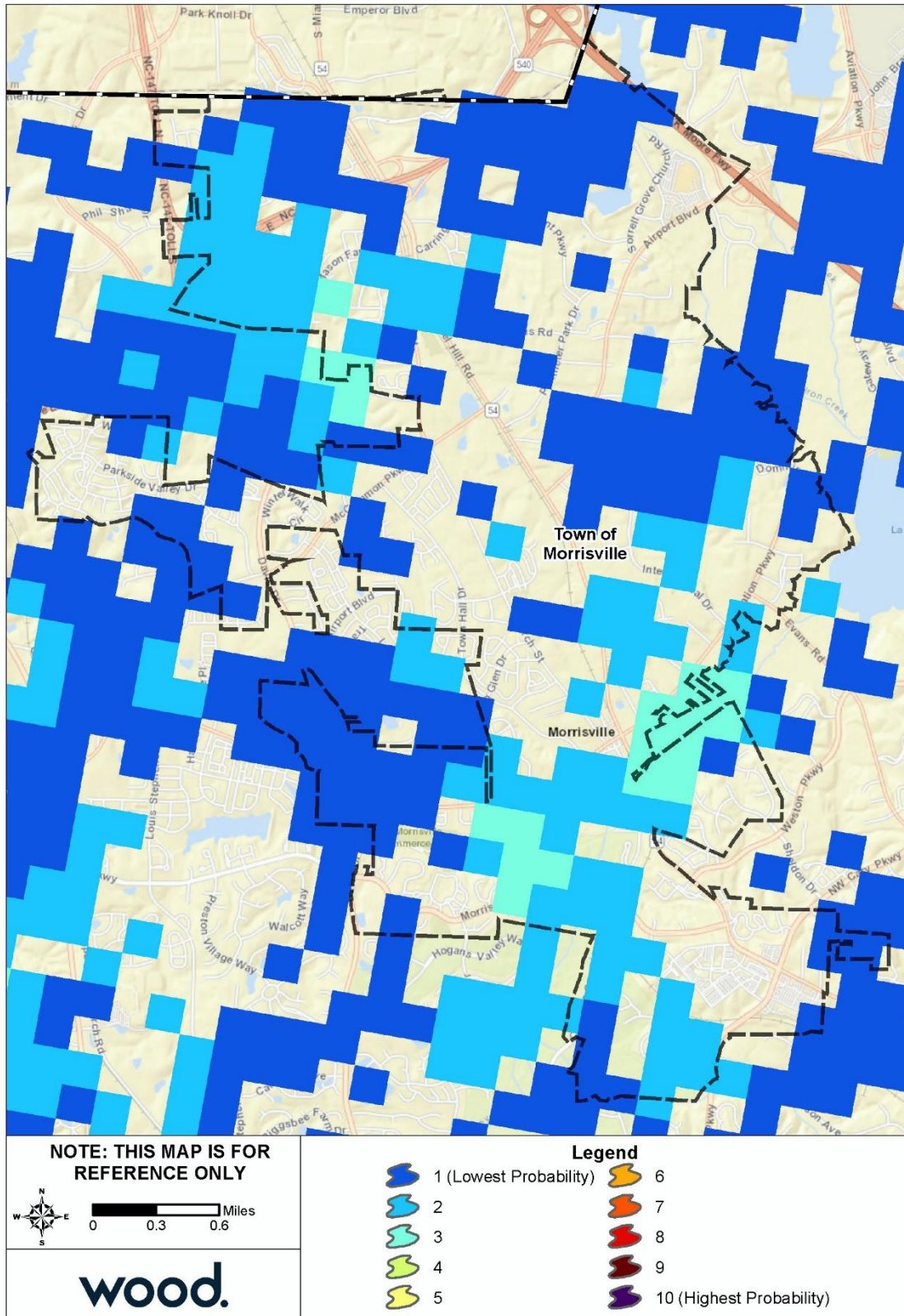
Source: Southern Wildfire Risk Assessment

Figure I.6 – Fire Intensity Scale, Town of Morrisville



Source: Southern Wildfire Risk Assessment

Figure I.7 – Burn Probability, Town of Morrisville



Source: Southern Wildfire Risk Assessment

I.4 CAPABILITY ASSESSMENT

I.4.1 Overall Capability

Details on the tools and resources in place and available to the Town of Morrisville were provided by the Town’s HMPC representatives and are summarized in Section 5 Capability Assessment. Based on that information and using the scoring methodology detailed in that section, Morrisville has an overall capability rating of Moderate. The Town’s Self-Assessment of key capability areas is summarized in Table I.17 below.

Table I.16 – Capability Self-Assessment, Morrisville

| Capability Area | Rating |
|-----------------------------------------|----------|
| Plans, Ordinances, Codes and Programs | Moderate |
| Administrative and Technical Capability | Moderate |
| Fiscal Capability | Moderate |
| Education and Outreach Capability | Moderate |
| Mitigation Capability | Moderate |
| Political Capability | Moderate |
| Overall Capability | Moderate |

I.4.2 Floodplain Management

The Town of Morrisville joined the NFIP through emergency entry in December 1977 and has been a regular participant since November 1978. The following tables reflect NFIP policy and claims data for the Town categorized by structure type, flood zone, Pre-FIRM and Post-FIRM.

Table I.17 – NFIP Policy and Claims Data by Structure Type

| Structure Type | Number of Policies in Force | Total Premium | Insurance in Force | Number of Closed Paid Losses | Total of Closed Paid Losses |
|-----------------------|-----------------------------|-----------------|---------------------|------------------------------|-----------------------------|
| Single Family | 50 | \$18,445 | \$14,422,300 | 4 | \$92,752.15 |
| 2-4 Family | 1 | \$256 | \$77,000 | 0 | \$0.00 |
| All Other Residential | 29 | \$9,689 | \$8,185,300 | 0 | \$0.00 |
| Non-Residential | 8 | \$8,836 | \$4,341,300 | 0 | \$0.00 |
| Total | 88 | \$37,226 | \$27,025,900 | 4 | \$92,752.15 |

Source: FEMA Community Information System, accessed November 2018

Table I.18 – NFIP Policy and Claims Data by Flood Zone

| Flood Zone | Number of Policies in Force | Total Premium | Insurance in Force | Number of Closed Paid Losses | Total of Closed Paid Losses |
|-------------------|-----------------------------|---------------|--------------------|------------------------------|-----------------------------|
| A01-30 & AE Zones | 35 | \$15,077 | \$9,214,900 | 1 | \$52,860.61 |
| A Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AO Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AH Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AR Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| A99 Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| V01-30 & VE Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| V Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| D Zones | 0 | \$0 | \$0 | 0 | \$0.00 |

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| Flood Zone | Number of Policies in Force | Total Premium | Insurance in Force | Number of Closed Paid Losses | Total of Closed Paid Losses |
|---------------|-----------------------------|-----------------|---------------------|------------------------------|-----------------------------|
| B, C & X Zone | | | | | |
| Standard | 1 | \$2,410 | \$500,000 | 0 | \$0.00 |
| Preferred | 52 | \$19,739 | \$17,311,000 | 3 | \$39,891.54 |
| Total | 88 | \$37,226 | \$27,025,900 | 4 | \$92,752.15 |

Source: FEMA Community Information System, accessed November 2018

Table I.19 – NFIP Policy and Claims Data Pre-FIRM

| Flood Zone | Number of Policies in Force | Total Premium | Insurance in Force | Number of Closed Paid Losses | Total of Closed Paid Losses |
|-------------------|-----------------------------|---------------|--------------------|------------------------------|-----------------------------|
| A01-30 & AE Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| A Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AO Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AH Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AR Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| A99 Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| V01-30 & VE Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| V Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| D Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| B, C & X Zone | 0 | \$0 | \$0 | 1 | \$695.95 |
| Standard | 0 | \$0 | \$0 | 0 | \$0.00 |
| Preferred | 0 | \$0 | \$0 | 1 | \$695.95 |
| Total | 0 | \$0 | \$0 | 1 | \$695.95 |

Source: FEMA Community Information System, accessed November 2018

Table I.20 – NFIP Policy and Claims Data Post-FIRM

| Flood Zone | Number of Policies in Force | Total Premium | Insurance in Force | Number of Closed Paid Losses | Total of Closed Paid Losses |
|-------------------|-----------------------------|-----------------|---------------------|------------------------------|-----------------------------|
| A01-30 & AE Zones | 35 | \$15,077 | \$9,214,900 | 1 | \$52,860.61 |
| A Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AO Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AH Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| AR Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| A99 Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| V01-30 & VE Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| V Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| D Zones | 0 | \$0 | \$0 | 0 | \$0.00 |
| B, C & X Zone | 53 | \$22,149 | \$17,811,000 | 2 | \$39,195.59 |
| Standard | 1 | \$2,410 | \$500,000 | 0 | \$0.00 |
| Preferred | 52 | \$19,739 | \$17,311,000 | 2 | \$39,195.59 |
| Total | 88 | \$37,226 | \$27,025,900 | 3 | \$92,056.20 |

Source: FEMA Community Information System, accessed November 2018

I.5 MITIGATION STRATEGY

| Town of Morrisville | | | | | | | | | | | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------|-------------------|--------------------------------------------------------|-------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Action # | Description | Goal | Objective | Hazard(s) Addressed | Relative Priority | Lead Agency/ Department | Estimated Cost | Potential Funding Sources | Implementation Schedule | 2019 Status | Status Comments/Explanation |
| Prevention | | | | | | | | | | | |
| P-1 | Reduce vulnerability of cyber attack by transitioning Town staff to encrypted laptops. | 3 | 1 | Terrorism | Moderate | Town of Morrisville | \$9,000 annually | Town of Morrisville | Ongoing - Next 5 years | New | N/A |
| P-2 | Establish a Municipal Service District (MSD) in order to convert private roads in Carpenter Park neighborhood to public roads with a higher design, safety, and maintenance standard. | 3 | 2 | All | Moderate | Town of Morrisville | \$460,000 | Town of Morrisville | 1 year | New | N/A |
| P-3 | Coordinate with Duke Power to draft Electric Utility Master Plan, which seeks to identify areas feasible for utility line burial. | 4 | 1 | Tornado, Severe Winter Storm, Severe Weather, Hurricane | High | Town of Morrisville | \$20,000 | Town of Morrisville | 2-3 years | New | N/A |
| P-4 | Update Land Use Plan to ensure protection of natural resources, strengthen existing development to resist hazards, and guide future development away from hazard prone areas. | 4 | 2 | Flood, Wildfire, Landslide, Dam Failure, Hurricane, Hazardous Materials Incident, Radiological Emergency | Moderate | Town of Morrisville | \$275,000 | Town of Morrisville | 2-3 years | New | N/A |
| P-5 | Obtain frequently updated, high-resolution aerial photography to assist with land use decisions, emergency response planning, and code enforcement. | 2 | 2 | Flood, Landslide, Severe Winter Storm, Severe Weather, Dam Failure, Hurricane, Hazards Materials Incident, Radiological Emergency, Terrorism | Moderate | Town of Morrisville | \$7,000 annually | Town of Morrisville | Ongoing - Next 5 years | New | N/A |
| P-6 | Working through the Triangle Water Supply Partnership, update the Water Resources Plan to ensure water supply is sufficient for Town's future needs. | 4 | 2 | Drought, Dam Failure, Extreme Heat | High | Triangle Water Supply Partnership | \$250,000 | Triangle Water Supply Partnership, Town of Morrisville | 3-5 years | New | N/A |
| P-7 | Working through the Triangle Water Supply Partnership, draft a Drought Management Plan to ensure water resources are properly managed during drought conditions. | 4 | 1 | Drought, Extreme Heat | High | Triangle Water Supply Partnership | \$150,000 | Triangle Water Supply Partnership, Town of Morrisville | 3-5 years | New | N/A |
| P-8 | Working through the Triangle Water Supply Partnership, draft an Emergency Spill Response and Mitigation Plan to protect watersheds and other water resources from hazardous spills. | 3 | 2 | Flood, Drought, Dam Failure, Extreme Heat, Hazardous Materials Incident, Radiological Emergency | High | Triangle Water Supply Partnership | \$150,000 | Triangle Water Supply Partnership, Town of Morrisville | 3-5 years | New | N/A |
| P-9 | Transition Wake County's sedimentation and erosion control permitting and monitoring to Town of Morrisville for better increased processing efficiency and faster incident response. | 2 | 2 | Flood, Landslide, Dam Failure, Hurricane, Hazardous Materials Incident | Moderate | Town of Morrisville | Unknown | Town of Morrisville | 2-3 years | New | N/A |
| P-10 | Conduct a complete review and update to the Town's stormwater management program, which helps mitigate effects of stormwater runoff and flooding. | 4 | 1 | Flood, Landslide, Dam Failure, Hurricane, Hazardous Materials Incident | High | Town of Morrisville | \$100,000 | Town of Morrisville | 2-3 years | New | N/A |
| Property Protection | | | | | | | | | | | |
| PP-1 | Reduce vulnerability of important data by transitioning IT Department's routine data backup to cloud storage. | 3 | 1 | Tornado, Earthquake, Severe Winter Storm, Severe Weather, Hurricane, Terrorism | High | Town of Morrisville | \$42,000 annually | Town of Morrisville | Ongoing - Next 5 years | New | N/A |
| PP-2 | Seek Federal, State, and County funding opportunities to purchase property located completely or partially in FEMA designated floodplains in order to mitigate potential property damage and protect natural resources. | 3 | 2 | Flood, Hurricane, Dam Failure | Low | Morrisville Director of Community Services, Director of Development Services | \$5,000,000 | Flood Mitigation Assistance Grant Program | More than 5 years | Not Started – Carry Forward | Town has purchased flood-prone properties using Town funds. Town has not sought any outside funding for floodplain property purchase. |
| Structural Projects | | | | | | | | | | | |
| SP-1 | Construct Green Drive and Fairview Road Flood Reduction Drainage Project to mitigate potential flood hazards. | 3 | 2 | Flood, Dam Failure, Hurricane | High | Town of Morrisville | \$450,000 | Town of Morrisville | 2-3 years | New | N/A |
| SP-2 | Construct new public works facility, which will increase Town's capacity to respond to hazards and other safety concerns. | 2 | 1 | All | Moderate | Town of Morrisville | \$8,500,000 | Town of Morrisville | 3-5 years | New | N/A |

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| Town of Morrisville | | | | | | | | | | | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|---------------------|-------------------|-------------------------|------------------|---------------------------|-------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action # | Description | Goal | Objective | Hazard(s) Addressed | Relative Priority | Lead Agency/ Department | Estimated Cost | Potential Funding Sources | Implementation Schedule | 2019 Status | Status Comments/Explanation |
| Emergency Services | | | | | | | | | | | |
| ES-1 | Monitor the status of backup generators, communications and vehicles for all Morrisville owned critical public facilities. | 2 | 1 | All | Low | Town of Morrisville | \$5,500 annually | Town of Morrisville | Ongoing - Next 5 years | In-Progress – Carry Forward | The Town has a contract with a private vendor to monitor the status and condition of critical emergency response equipment such as backup generators, communications, and vehicles. |
| ES-2 | Install new generators for Town Hall and Police Station to ensure continuity of critical operations during a power outage. | 3 | 1 | All | High | Town of Morrisville | \$150,000 | Town of Morrisville | 1 year | New | N/A |
| ES-3 | Construct new fire station in Morrisville in order to improve fire protection coverage and emergency response times. | 2 | 1 | All | Moderate | Town of Morrisville | \$4,500,000 | Town of Morrisville | 3-5 years | New | N/A |
| ES-4 | Update Town's Emergency Operations Plan to ensure best processes and procedures for the most likely and applicable emergency scenarios. | 2 | 2 | All | Moderate | Town of Morrisville | \$150,000 | Town of Morrisville | 3-5 years | New | N/A |
| Public Education and Awareness | | | | | | | | | | | |
| PEA-1 | Implement Wake County's Everbridge text alert system to notify citizens and Town staff of potential safety hazards or concerns. | 1 | 1 | All | High | Wake County | \$0 | Wake County | 1 year | New | N/A |
| PEA-2 | Purchase and implement new online civic engagement platform to be used in part to inform citizens on disaster preparation, emergency response training opportunities, and evacuation information. | 1 | 1 | All | Moderate | Town of Morrisville | \$10,000 | Town of Morrisville | 1 year | New | N/A |
| PEA-3 | Utilize volunteer citizen committees, such as CERT or Public Safety Committee, to educate residents in preparing for natural hazards. | 1 | 1 | All | Low | Town of Morrisville | \$2,000/year | Town of Morrisville | Ongoing - Next 5 Years | In-Progress – Carry Forward | The Community Emergency Response Team is a group of dedicated volunteers that meet monthly for emergency response training. |