

Annex C Town of Apex

C.1 PLANNING PROCESS

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

Table C.1 – HMPC Members

Agency	Representative	Position or Title
Planning Department	Shelly Mayo	Planner
Planning Department	Dianne Khin	Planning Director
N/A	Jim Scarborough	Citizen Stakeholder

C.2 COMMUNITY PROFILE

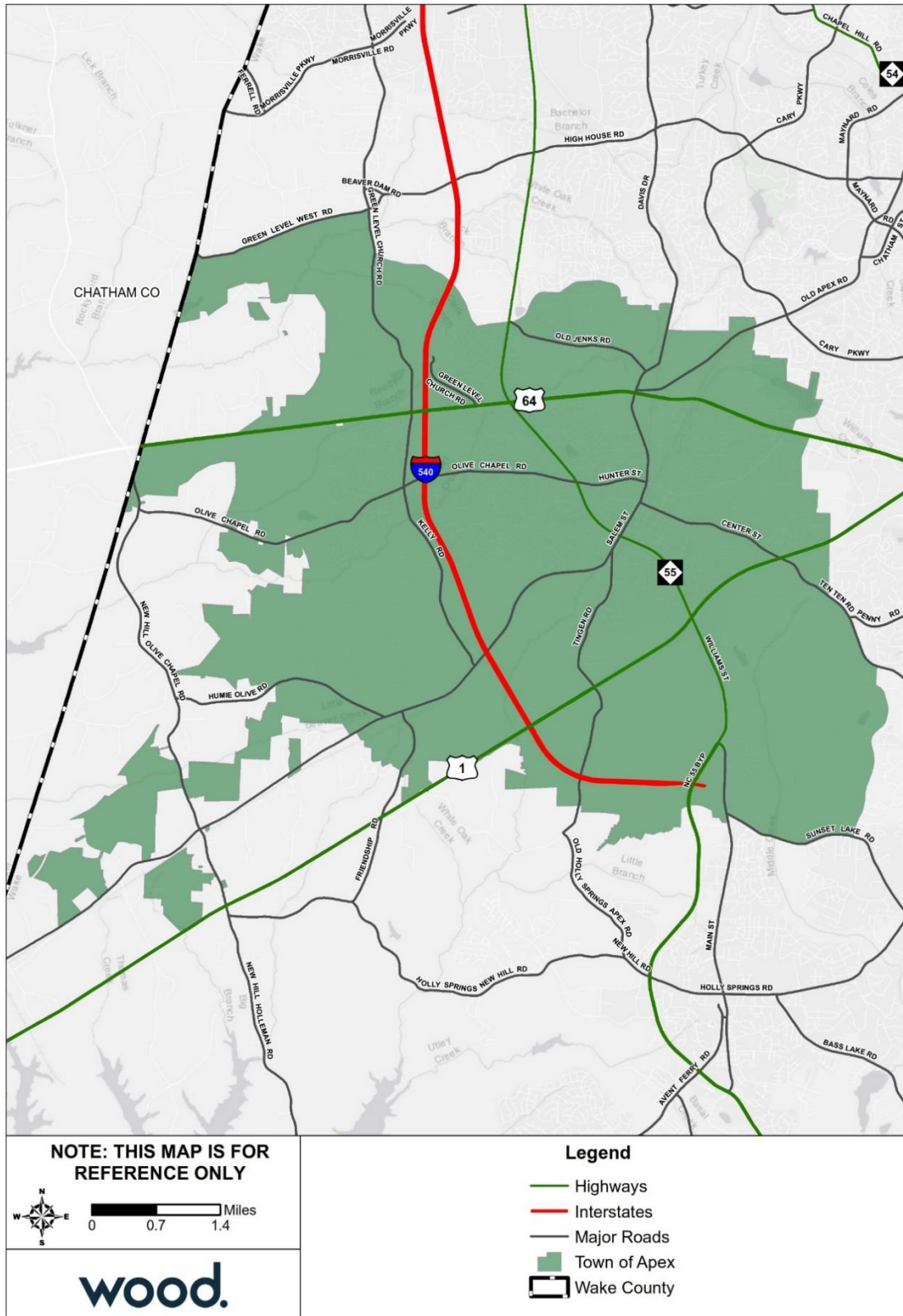
Geography

The Town of Apex is located in southwestern Wake County. It is neighbored by Cary to the north and northeast and Holly springs to the south. The Town is part of the Raleigh, NC Metropolitan Statistical Area, which falls within the larger Raleigh-Durham-Chapel Hill, NC Combined Statistical Area. Apex comprises a total land area of 23.4 square miles.

According to data from the U.S. Fish and Wildlife Service’s National Wetlands Inventory, there are approximately 2,695 acres of wetlands in Apex.

Figure C.1 shows a base map of the major transportation routes in the Town of Apex.

Figure C.1 – Major Transportation Routes, Town of Apex



Source: Wake County GIS Open Data

Population and Demographics

Table C.2 provides population counts and growth estimates for the Town of Apex as compared to the County overall. Table C.3 provides demographic information for Raleigh as compared to the whole County.

Table C.2 – Population Counts, Apex, 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 Apex	20,212	37,476	45,899	8,423	22.5%

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

Table C.3 – Racial Demographics, Apex, 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 Apex	79.3%	8.6%	7.4%	1.5%	2.9%	7.3%

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 Apex in order to estimate the total physical exposure to hazards in the jurisdiction. The locations of critical facilities are shown in Figure C.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.

Table C.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 Apex	75	14	0	302	0	225	1	91	27	0	0	0	0	59	0	2	0	0	796

Source: NCEM Risk Management Tool

Table C.5 – High Potential Loss Facilities by Use

Jurisdiction	Residential	Commercial	Industrial	Government	Agricultural	Religious	Utilities	Other	Total
Town of Apex	71	76	50	19	0	16	0	0	232

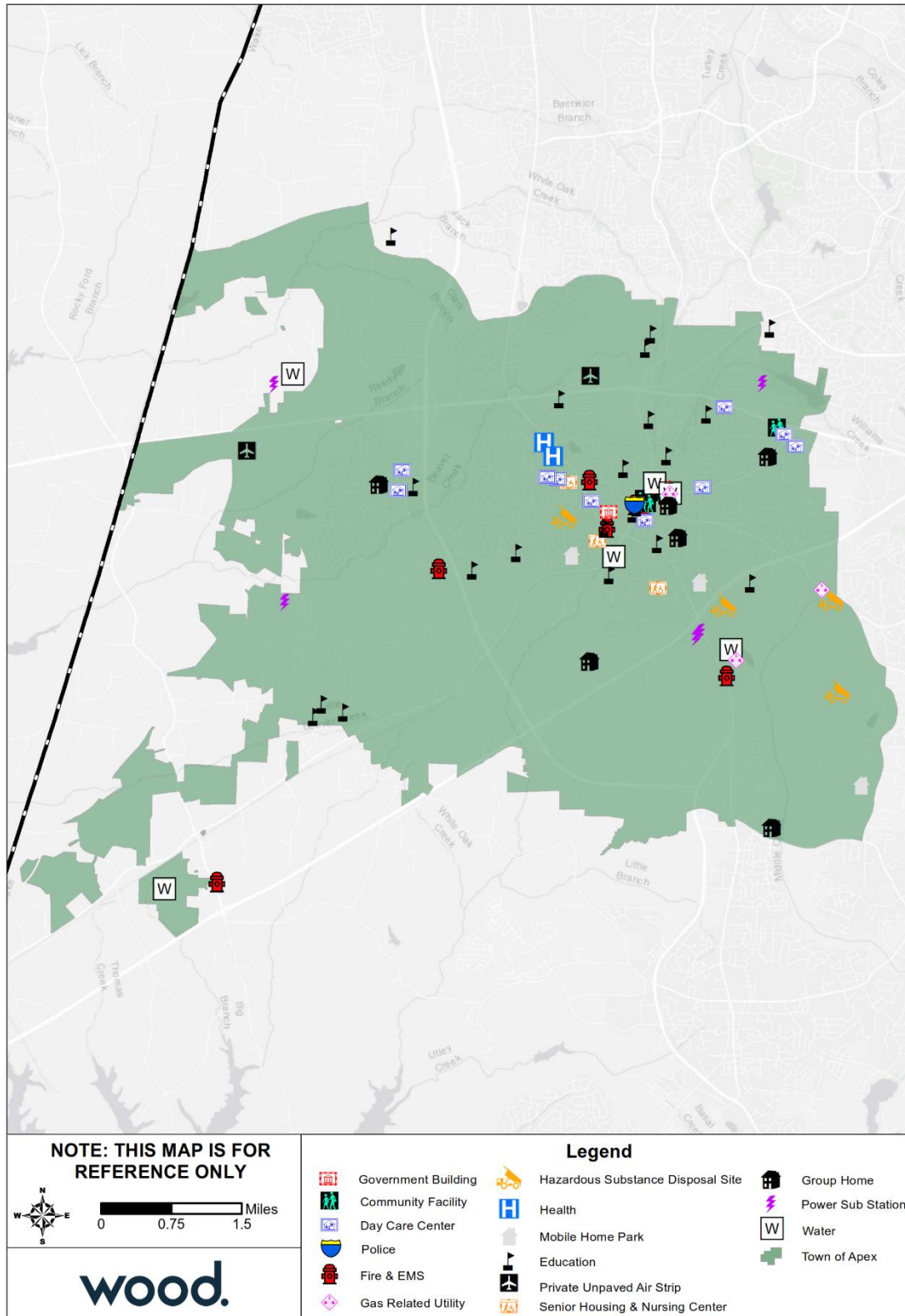
Source: NCEM Risk Management Tool

To supplement the NCEM IRISK database information on critical facilities and account for significant new development, the Town of Apex provided GIS datasets on critical facilities, schools, and other key assets. The additional facilities not already accounted for in Table C.4 are listed below. These facilities are displayed in Figure C.2 along with those identified in IRISK.

Table C.6 – Supplemental Critical Facilities List

Facility Type	Count
Community Facility	4
Day Care Center	10
Electrical Substation	5
Fire/Police/EMS	6
Gas Pressure Station	1
Gas Terminal	2
Government Building	1
Group Home	6
Hazardous Substance Disposal Site	4
Health Facility	1
Hospital	1
Mobile Home Park	3
Preschool	3
Private Unpaved Air Strip	2
School	10
Senior Housing/Nursing Center	3
Water Facility	6
Grand Total	68

Figure C.2 – Critical Facilities, Town of Apex



Source: NCEM IRISK Database, GIS Analysis

To supplement the asset inventory and provide a clearer picture of the current asset exposure in the Town of Apex, 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 C.7 provides a summary by land class of parcel development from January 2011 to April 2019.

Table C.7 – Parcels Developed 2011 or Later, Town of Apex

Land Class	Number of Parcels	Sum of Building Value
Acres Greater Than 10 With House	5	\$2,500,898
Agriculture	1	\$196,703
Apartment	7	\$93,911,496
Commercial	34	\$76,087,487
Condo Complex	7	-
EXEMPT	14	\$112,104,783
HOA	10	-
Industrial	16	\$19,628,010
Part Exempt	36	\$9,941,184
Residential Less Than 10 Acres	4,885	\$1,391,100,016
Vacant	2	-
Grand Total	5,011	\$1,705,470,577

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

There are seven listings on the National Register of Historic Places for the Town of Apex, including three historic districts. These sites are listed in the table below.

Table C.8 – Historic Properties

Ref#	Property Name	Status Date	Category	City
85003077	The Halle Building (f.k.a Historic Apex Town Hall)	12/5/1985	Building	Apex
88002697	Apex Union Depot	12/1/1988	Building	Apex
94000185	Apex Historic District	3/17/1994	District	Apex
95000210	Apex Historic District (Boundary Increase)	3/10/1995	District	Apex
02000016	Apex Historic District (Boundary Increase)	2/14/2002	District	Apex
07001502	Apex Historic District (Boundary Increase II)	1/31/2008	District	Apex
08000937	Lawrence, Calvin Wray, House	9/23/2008	Building	Apex

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

Housing

The table below details key housing statistics for Apex as compared to the County overall.

Table C.9 – Housing Statistics, Apex, 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 Apex	13,922	16,883	21.3%	68.9%	4.2%	\$289,300

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 Apex as compared to the County overall.

Table C.10 – Employment Statistics, Apex, 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 Apex	25,403	72.5	3.0	24.5	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 C.11 – Percent of Employed Population by Occupation, Apex, 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 Apex	57.2	11.4	22.6	4.8	4.0

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

C.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 Apex 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.

C.3.1 Flood

Table C.12 details the acreage of the Town of Apex total area by flood zone on the effective DFIRM. Per this assessment, over 4 percent of the Town of Apex falls within the mapped 1%-annual-chance floodplains.

Table C.12– Flood Zone Acreage in the Town of Apex

Flood Zone	Acreage	Percent of Total (%)
Zone A	15.59	0.07
Zone AE	995.67	4.22
Zone X (500-year)	27.7	0.12
Zone X Unshaded	22,556.33	95.60
Total	23,595.29	--

Source: FEMA Effective DFIRM; Wake County GIS

Figure C.3 reflects the effective mapped flood hazard zones for the Town of Apex, and Figure C.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 Apex, 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.

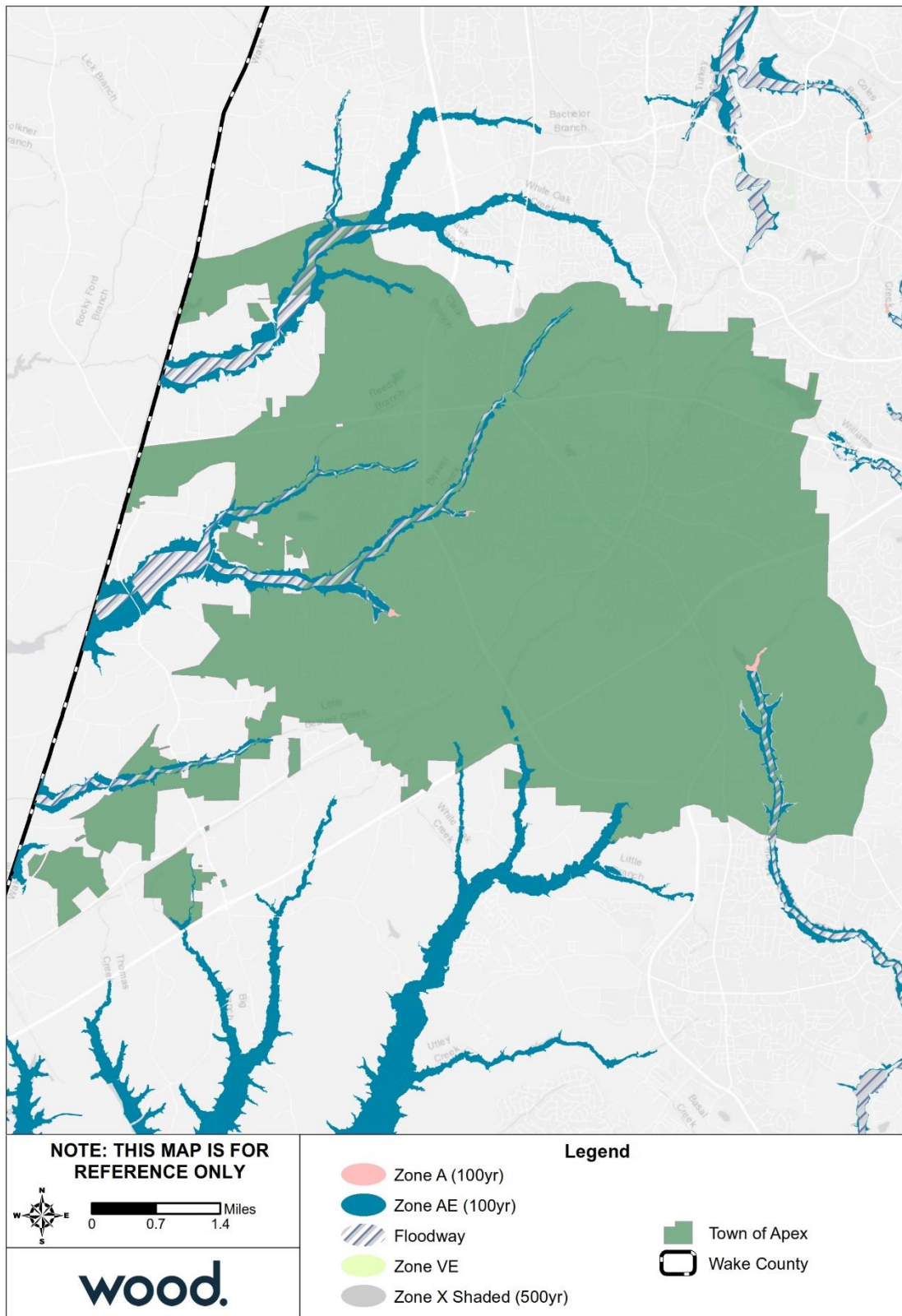
Table C.13 provides a summary by land class of parcel development located in the 1% annual chance floodplain from January 2011 to April 2019.

Table C.13 – Parcels Developed 2011 or Later and Located in 100-Year Floodplain, Town of Apex

Land Class	Number of Parcels	Sum of Building Value
Commercial	1	\$10,465,559
EXEMPT	3	\$3,428,276
Residential Less Than 10 Acres	12	\$4,645,437
Grand Total	16	\$18,539,272

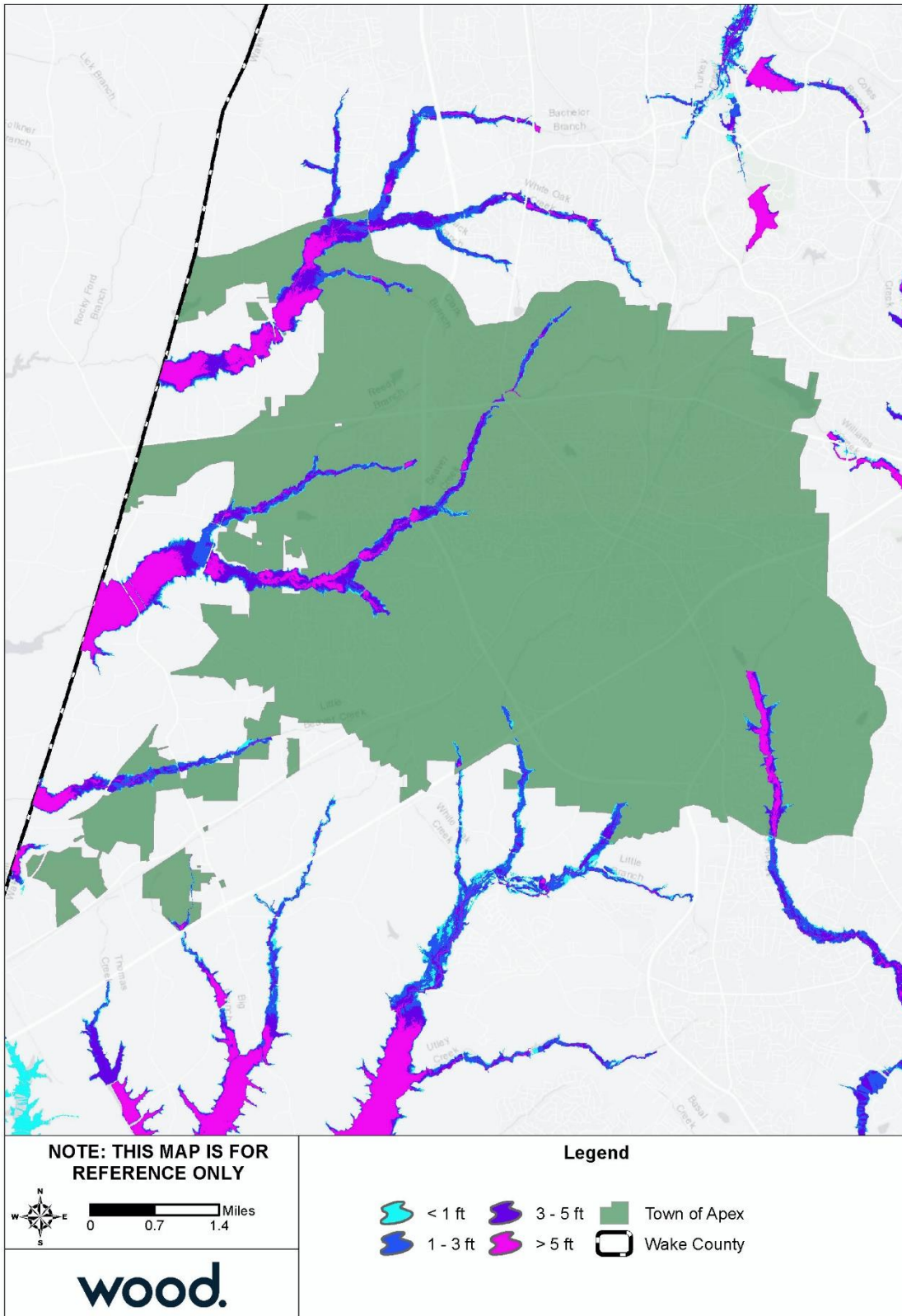
Source: Wake County Open Data; retrieved April 8, 2019; FEMA Effective DFIRM

Figure C.3 – FEMA Flood Hazard Areas, Town of Apex



Source: FEMA Effective DFIRM

Figure C.4 – Flood Depth, 1%-Annual-Chance Floodplain, Town of Apex



Source: FEMA Effective DFIRM

C.3.2 Wildfire

Table C.14 summarizes the acreage in the Town of Apex 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 17 percent of the Town of Apex is not included in the WUI.

Table C.14 – Wildland Urban Interface Acreage, Town of Apex

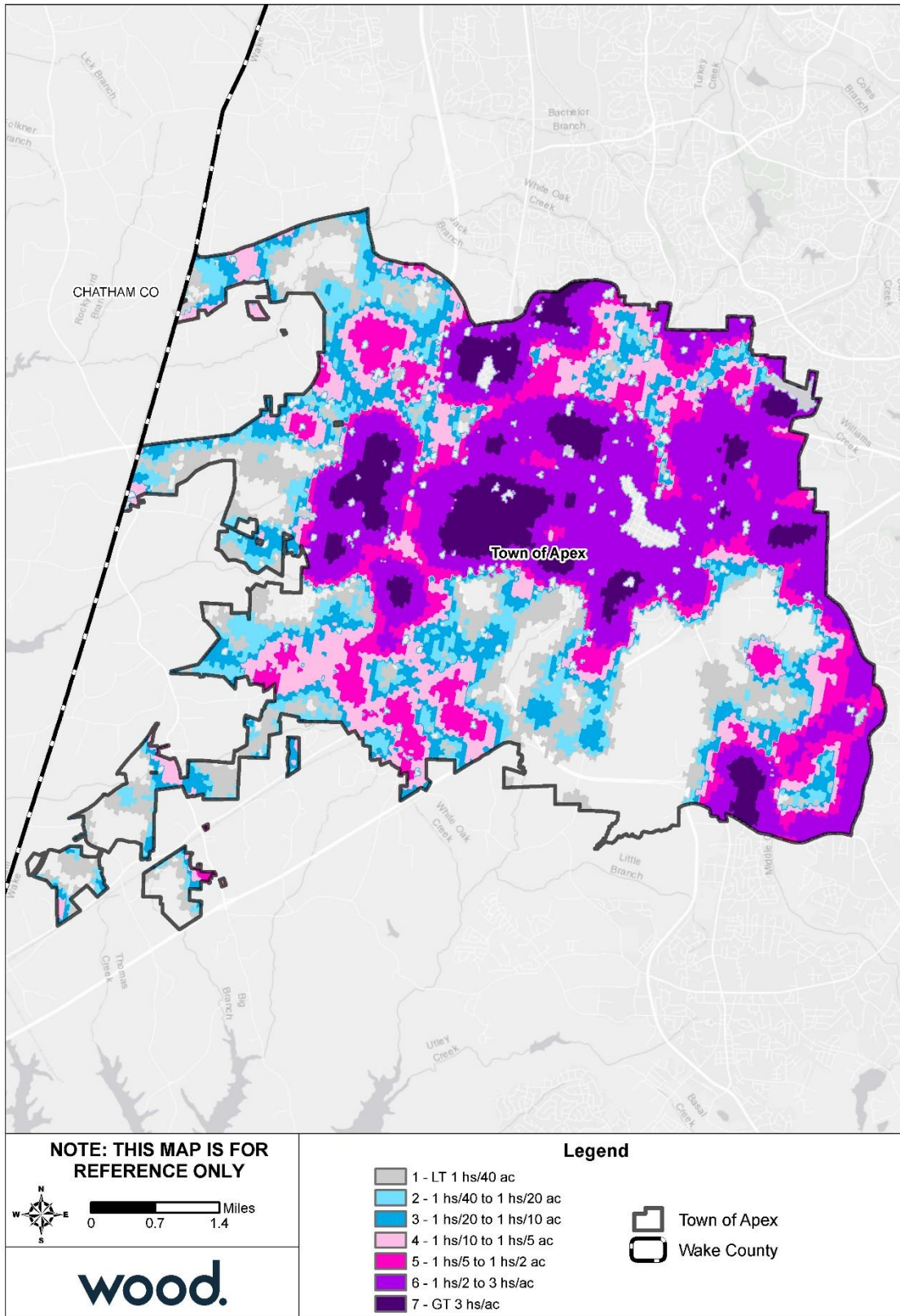
	Housing Density	Total Acreage	Percent of Total Acreage
	<i>Not in WUI</i>	4,230.0	17.9%
	LT 1hs/40ac	2,393.3	10.1%
	1hs/40ac to 1hs/20ac	1,859.2	7.9%
	1hs/20ac to 1hs/10ac	2,299.7	9.7%
	1hs/10ac to 1hs/5ac	2,589.9	11%
	1hs/5ac to 1hs/2ac	2,664.6	11.3%
	1hs/2ac to 3hs/1ac	5,829.0	24.7%
	GT 3hs/1ac	1,721.8	7.3%
	Total	23,587.5	

Source: Southern Wildfire Risk Assessment

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

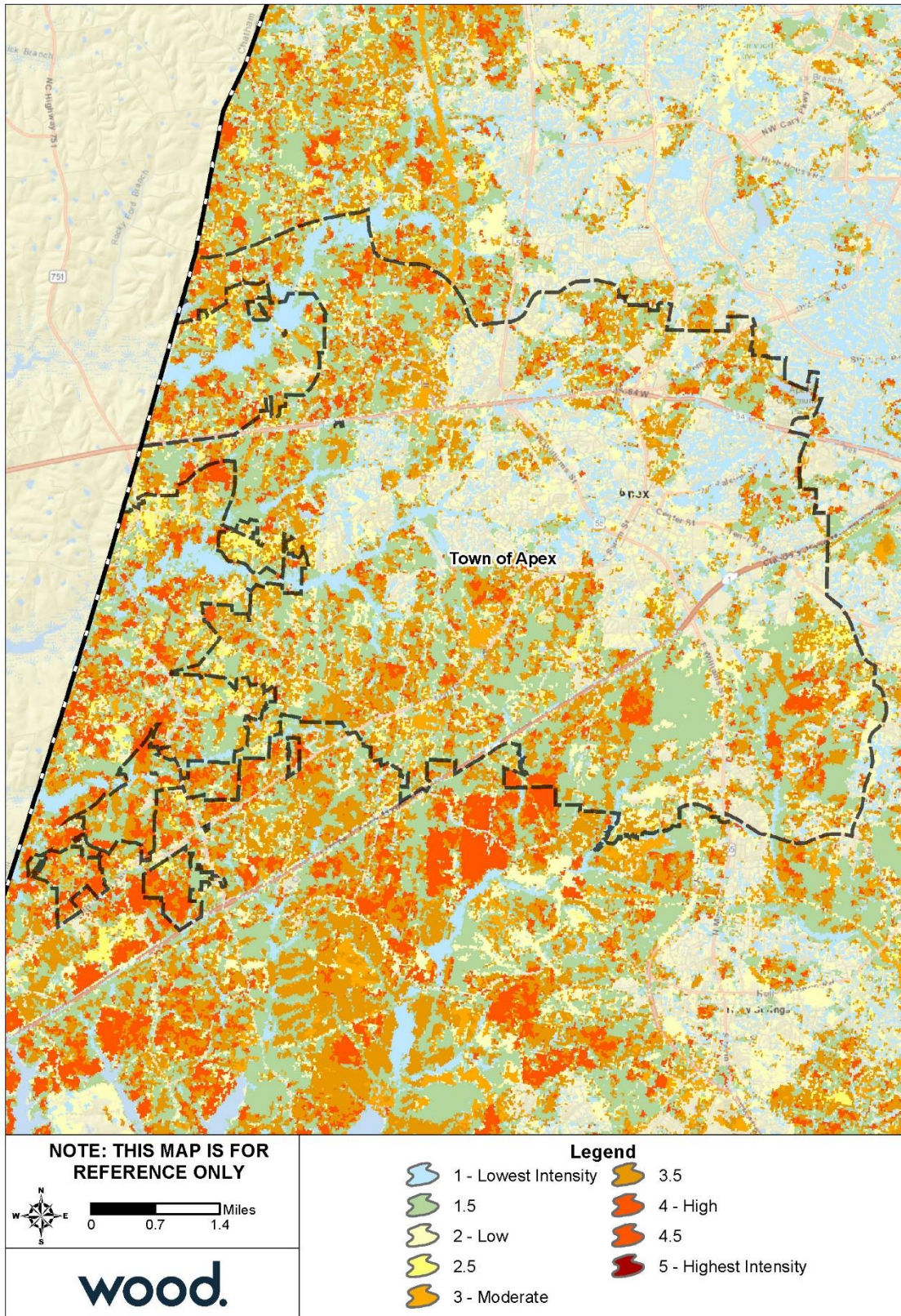
Potential fire intensity is highest in southeast part of the Town of Apex; however, these areas, as with much of the town, have lower burn. Much of the most densely developed area in the WUI have low to moderate fire intensity.

Figure C.5 – Wildland Urban Interface, Town of Apex



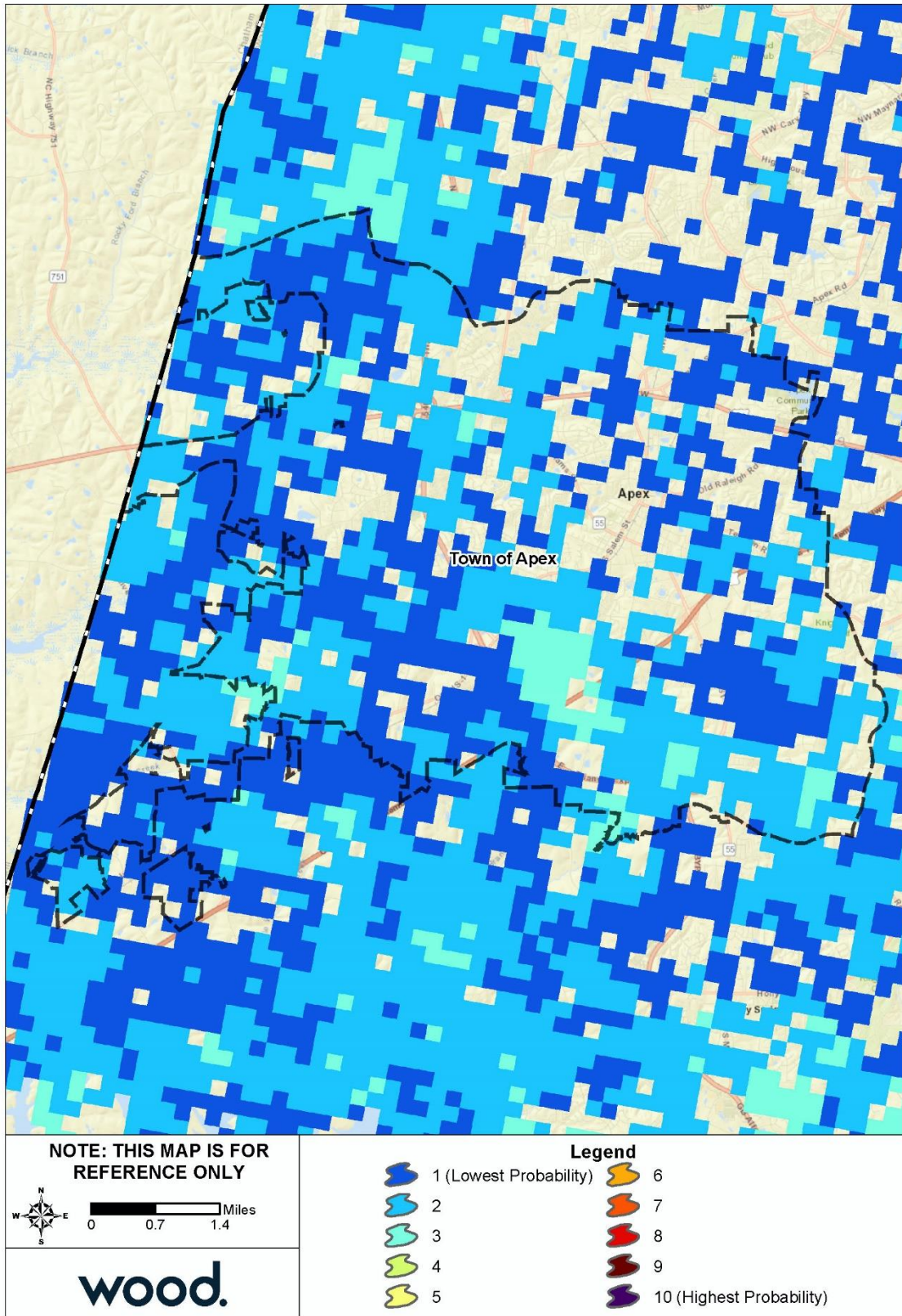
Source: Southern Wildfire Risk Assessment

Figure C.6 – Fire Intensity Scale, Town of Apex



Source: Southern Wildfire Risk Assessment

Figure C.7 – Burn Probability, Town of Apex



Source: Southern Wildfire Risk Assessment

C.4 CAPABILITY ASSESSMENT

C.4.1 Overall Capability

Details on the tools and resources in place and available to the Town of Apex 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, Apex has an overall capability rating of High. The Town’s Self-Assessment of key capability areas is summarized in Table C.15 below.

Table C.15 – Capability Self-Assessment, Apex

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

C.4.2 Floodplain Management

The Town of Apex joined the NFIP as a regular participant in March 1992. The following tables reflect NFIP policy and claims data for the Town categorized by structure type, flood zone, Pre-FIRM and Post-FIRM.

Table C.16 – 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	106	\$42,257	\$30,943,000	1	\$1,299.97
2-4 Family	2	\$555	\$400,000	0	\$0.00
All Other Residential	0	\$0	\$0	0	\$0.00
Non-Residential	3	\$5,991	\$1,600,000	0	\$0.00
Total	111	\$48,803	\$32,943,000	1	\$1,299.97

Source: FEMA Community Information System, accessed November 2018

Table C.17 – 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	15	\$8,790	\$4,269,000	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					

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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
Standard	2	\$4,031	\$750,000	0	\$0.00
Preferred	94	\$35,982	\$27,924,000	1	\$1,299.97
Total	111	\$48,803	\$32,943,000	1	\$1,299.97

Source: FEMA Community Information System, accessed November 2018

Table C.18 – 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	9	\$2,607	\$1,665,000	0	\$0.00
Standard	0	\$0	\$0	0	\$0.00
Preferred	9	\$2,607	\$1,665,000	0	\$0.00
Total	9	\$2,607	\$1,665,000	0	\$0.00

Source: FEMA Community Information System, accessed November 2018

Table C.19 – 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	15	\$8,790	\$4,269,000	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	87	\$37,406	\$27,009,000	1	\$1,299.97
Standard	2	\$4,031	\$750,000	0	\$0.00
Preferred	85	\$33,375	\$26,259,000	1	\$1,299.97
Total	102	\$46,196	\$31,278,000	1	\$1,299.97

Source: FEMA Community Information System, accessed November 2018

C.5 MITIGATION STRATEGY

Town of Apex											
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	Revise and update the regulatory floodplain boundary, including flood studies.	2	2	Flood	Moderate	Public Works & Transportation (Floodplain Administrator)	Staff Time	Town Funds	Ongoing - Next 5 years	In-Progress – Carry Forward	Action revised.
P-2	Develop an environmental committee that meets regularly to discuss issues and recommend projects.	2	2	All Hazards	Moderate	Water Resources (Stormwater and Utility Engineering Manager)	Staff Time	Town Funds	Ongoing - Next 5 years	In-Progress – Carry Forward	The Town Council's Environmental committee has been established and meets approximately every 2 months
P-3	Encourage the use of Low Impact Development techniques.	4	2	Flood, Landslide, Drought, Hurricane, Extreme Heat	Low	Water Resources (Stormwater and Utility Engineering Manager)	Staff Time	Town Funds	Ongoing - Next 5 years	In-Progress – Carry Forward	Ongoing activity that has seen more results in last 5 years and will continue to be prioritized.
P-4	Use system development fees to help fund public projects	3	2	Flood, Wildfire, Tornado, Severe Winter Storm, Severe Weather, Drought, Hurricane	Moderate	Water Resources (Stormwater and Utility Engineering Manager)	Unknown	Local Development Fees	3-5 years	In-Progress – Carry Forward	Action revised.
P-5	Update the UDO & Design and Development Manual to incorporate proper species selection and practices for planting and maintenance into the landscape ordinance.	4	1	Flood, Severe Winter Storm, Severe Weather, Drought, Hurricane	Moderate	Planning Dept.	Staff Time	Local	2-3 years	In-Progress – Carry Forward	Action revised.
P-6	Incorporate GIS data and risk analysis into the development review process.	4	2	All	Moderate	Fire Dept. & Planning Dept.	Staff Time	Local	Ongoing - Next 5 years	In-Progress – Carry Forward	Action revised.
P-7	Create a Stormwater Utility to fund the Town's Stormwater Program.	2	2	Flood	Moderate	Water Resources (Stormwater and Utility Engineering Manager)	\$100,000	Local	2-3 years	New	Implement: 2021
P-8	Continue to use "Neighbors Helping Neighbors" program to help low income Apex Utility customers pay their utility bills.	3	2	Extreme Heat, Severe Winter Storm	Moderate	Finance Dept/Western Wake Crisis Ministry	None	Local	Ongoing - Next 5 years	New	Has been in use for years but is just now being recognized as contributing towards mitigating impacts of high heat and cold weather.
P-9	Salt local roads before Severe Winter Storm & plow after snow and ice fall.	3	2	Severe Winter Storm	Moderate	Public Works & Transportation		Local	Ongoing - Next 5 years	New	On-going activity that is just now being added as mitigation for Severe Winter Storms.
Property Protection											
PP-1	Adopt and enforce the Fire Prevention Code.	4	1	Wildfire, Hazardous Materials Incident	Moderate	Fire Department	Staff Time	Local	Ongoing - Next 5 years	New	N/A
PP-2	Annually update the comprehensive occupancy pre-plan program with local data for use in risk analysis.	4	2	Flood, Wildfire, Hazardous Materials Incident, Radiological Emergency	Moderate	Fire Department	Staff Time	Local	Ongoing - Next 5 years	In-Progress – Carry Forward	Action revised.
PP-3	Restore streams to slow the speed of water and reduce erosion to prevent both private property loss and public infrastructure damage.	3	2	Flood	Moderate	Water Resources (Stormwater and Utility Engineering Manager)	Over \$500,000	Local & Federal	Ongoing - Next 5 years	New	N/A
Natural Resource Protection											
NRP-1	Middle Creek Greenway (Miramonte to Holly Springs).	3	2	All	Moderate	Apex Parks and Recreation	\$2,870,000	Local	3-5 years	In-Progress – Carry Forward	under construction
NRP-2	White Oak Creek Greenway.	3	2	Flood	Moderate	Apex Parks and Recreation	\$284,000	Local	3-5 years	In-Progress – Carry Forward	under construction
NRP-3	During development review, ensure new development complies with floodplain development restrictions listed in UDO Section 6.2 Flood Damage Prevention Overlay District.	4	2	Flood	Moderate	Public Works and Transportation (Floodplain Administrator)	Staff Time	Local	Ongoing - Next 5 years	New	N/A

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Town of Apex											
Action #	Description	Goal	Objective	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Estimated Cost	Potential Funding Sources	Implementation Schedule	2019 Status	Status Comments/Explanation
NRP-4	During development review, ensure new development complies with UDO stream buffer standards.	4	2	Flood	Moderate	Water Resources (Stormwater and Utility Engineering Manager)	Staff Time	Local	Ongoing - Next 5 years	New	N/A
NRP-5	During development review, ensure SCMs are designed in accordance with State criteria to safely pass 100-year storm.	4	2	Flood	Moderate	Water Resources (Stormwater and Utility Engineering Manager)	Staff Time	Local	Ongoing - Next 5 years	New	N/A
Structural Projects											
SP-1	Improve communications abilities for emergency response by building new fiber optic internet infrastructure and replacing current radio systems.	2	1	All	Moderate	Police Dept	\$915,000	Local	3-5 years	New	N/A
SP-2	Build Jessie Drive to connect TenTen Rd and NC-55. This will provide greater connectivity and make evacuation faster & safer.	3	2	All	Moderate	Public Works and Transportation	\$6,000,000	Local	3-5 years	New	N/A
SP-3	Relocate Beaver Creek Sewer Line out of the creek.	3	2	Flood, Wildfire, Severe Winter Storm, Hurricane	Moderate	Water Resources (Stormwater and Utility Engineering Manager)	\$1,500,000	Local	3-5 years	New	N/A
SP-4	Finish the Peakway loop road. Will provide greater connectivity, faster emergency response times, and make evacuation faster & safer.	3	2	All	High	Public Works and Transportation	\$20,000,000	Local	More than 5 years	New	Design work is in progress
Emergency Services											
ES-1	Construct Fire Station #6	3	2	All Hazards	Moderate	Apex Fire	\$4,175,000	Local	3-5 years	New	N/A
ES-2	Construct Fire Station #7	3	2	All Hazards	Moderate	Apex Fire	\$4,000,000	Local	More than 5 years	New	N/A
ES-3	Relocate Fire Station #3 from its existing location because of the impacts of widening NC-55.	3	1	All Hazards	Moderate	Apex Fire	\$4,000,000	Local	More than 5 years	New	N/A
ES-4	Keep Town website updated with information about Shearon Harris Siren Testing.	1	2	Radiological Incident	Moderate	Apex Public Information Officer	Staff Time	Local	Ongoing - Next 5 years	New	Ongoing activity that's just now being recognized for its mitigation potential
Public Education and Awareness											
PEA-1	Town website and utility billing announcing National Preparedness Month (September) reminding citizens to have a plan and be prepared.	1	1	All	Moderate	Administration (Communications Officer)	Less than \$100,000	Local	Ongoing - Next 5 years	In-Progress – Carry Forward	On-going activity to be implemented annually
PEA-2	Include Environment Education Station and classroom at Nature Park.	1	1	All	Moderate	Apex Parks and Recreation	\$1,000,000	Local	3-5 years	Not Started – Carry Forward	New target completion date is 2022
PEA-3	Post warning signage at local parks for lightning.	1	1	Severe Weather	Moderate	Apex Parks and Recreation	\$100,000	Local	3-5 years	Not Started – Carry Forward	New implementation schedule is 3-5 years
PEA-4	Hand out hazard educational materials at Apex festivals.	1	1	All	Moderate	Planning Dept. & Water Resources	Less than \$1,500	Local	Ongoing - Next 5 years	New	N/A
PEA-5	Use Social Media to inform residents about local hazards.	1	1	All	Moderate	Apex Public Information Officer & Planning Dept.	Staff Time	Local	Ongoing - Next 5 years	New	N/A