

Number	Tactic	Lead Department	Time Frame	2016 update
	PRESERVE			
1.1	Investigate and establish Conservation Easements or other protections on existing and future City-owned lands to preserve lands in perpetuity.	Parks, Attorney's Office, City Manager	medium	meadow creek valley and frys spring plus azalea
1.2	Incorporate vacant City lots and/or other City lands that are unplanned for development into park system	Parks, Attorney's Office, City Manager	medium	
1.3	Pursue additional protection for park and school lands that requires either a unanimous City Council vote or public referendum before park or school lands are sold.	Parks, NDS, Attorney's Office	medium	rezoning request to be submitted 2017
1.4	Pursue land acquisition funding to purchase forested lands, especially for greenway development and to address existing riparian buffer gaps.	Parks	ongoing	routine
1.5	Determine private properties that can be placed under conservation easement.	Parks, Attorney's Office, Environmental	long	up to private landowners
1.6	Coordinate with Charlottesville schools to develop a strategy for management of large forest stands on school property.	Parks, schools	medium	
1.7	Establish 50 foot vegetated riparian buffers (25 on each side) for creeks in protection	Landowners	ongoing	
1.8	Explore expansion of stream buffer protections for all other streams in the City, beyond Moore's Creek, Meadow Creek, and the Rivanna River.	NDS	medium	environmental office
1.9	Establish grading and compaction guidelines that do not alter drainage and natural moisture patterns to preserve healthy trees.	NDS, Parks	ongoing	code audit/SADM
1.10	Create tree protection guidebook for developers and private landowners that summarizes codes, laws, BMPs and goals for projects in the City	Parks, NDS	short	done?
1.11	Investigate the presence of champion, heritage and specimen trees. Identify, label, and preserve them. Work to improve legal protections for these trees.	Parks	short	tree conservation ordinance passed
1.12	Adopt a Tree Protection Ordinance that includes a method to establish penalties if trees are lost	NDS, Parks	long	tree conservation ordinance passed
1.13	Establish a City-wide Stream Management Strategy and Maintenance Standards	Parks, Public Works	medium	
1.14	Conduct a thorough review of the current Code of Virginia, City Code, Chesapeake Bay Protection Ordinances, and the ordinances of other jurisdictions to ensure that the City is doing all it can to protect trees and natural resources.	NDS, Parks, Attorney's Office, Public Works	long	code audit/SADM
1.15	Pursue desired state legislative changes through the General Assembly. Involve the Thomas Jefferson Planning District Commission legislative liaison in discussions regarding the General Assembly.	Attorney's Office	ongoing	
1.16	Establish Construction Performance and Maintenance bonds during redevelopment for tree and landscape work and ensure enforcement of bonding requirements. Utilize City Code to require this to be done through ISA Certified Arborists and to ensure the bonding requirements are sufficient to maintain the sustainability of a riparian buffer or tree screen.	NDS	medium	
1.17	Analyze city by entry corridor, parks and schools, zoning categories and sub-watersheds to determine existing canopy coverage to compare with target canopy coverage goals.	IT, Public Works, Parks, NDS	short	ongoing

Number	Tactic	Lead Department	Time Frame	2016 update
	ENHANCE & RESTORE			
2.1	Implement the recommendations of the Invasives Species Management Plan	Parks	ongoing	ongoing - goats have been used
2.2	Ensure adequate planning, staff and budget to manage trees on acquisitions that bring forested lands into public management.	Parks	ongoing	still trying
2.3	Work with utilities to end tree topping & tunneling, or convert to rubber coated wires	Attorney's Office, Parks, City Manager	long	this is up to the utilities
2.4	Enhance and restore healthy forest canopy on vacant City lots and/or other City lands that are unplanned for development	Parks	medium	
2.5	Establish a riparian buffer restoration program on private property	Parks, PW, NDS	medium	up to private landowners
2.6	Encourage forest species diversity to increase resistance to disease and pests, especially in development and redevelopment scenarios	Parks	ongoing	routine
2.7	Plant native species where possible and use site adaptable trees otherwise	Parks, NDS, PW	ongoing	routine

Number	Tactic	Lead Department	Time Frame	2016 update
	EXPAND			
3.1	Establish tree canopy goals for entry corridors, parks and schools, appropriate zoning categories, and watersheds.	NDS, Parks, PW	short	in comp plan?
3.2	Plant trees in appropriate public locations, including those identified in the 2008 Urban Forest Assessment	Parks	short	ongoing
3.3	Encourage plantings of new trees on private property through educational efforts and programs. Identify potential planting locations using City GIS and other data	Parks, PW, NDS	medium	green infrastrucutre program
3.4	Continue tree planting programs in riparian areas for stream corridor management and health	Parks	ongoing	ongoing
3.5	Establish City BMPs in line with industry BMPs for silviculture. Ensure that these standards are required of developers during the site plan review process and construction	Parks, NDS	medium	code audit
3.6	Expand trail standard to include vegetative plans for areas within and adjacent to trail corridors	Parks, NDS, PW	ongoing	only for public lands
3.7	Collocate trails and utilities where appropriate to limit creation of multiple corridors in forested areas	Parks, PW, NDS	ongoing	ongoing
3.8	Work with utilities on identifying good locations for tree planting near utility corridors	Parks, NDS, PW	ongoing	ongoing
3.9	Plant a tree on public property every Arbor Day as part of annual celebration	Parks	ongoing	usual - sometime we just celebrate

Number	Tactic	Lead Department	Time Frame	2016 update
	MONITOR			
4.1	Establish a methodology to track and maintain targeted healthy canopy coverage over time	Parks	short	new canopy study 2016
4.2	Load all relevant data into the City's GIS database for Citywide access	IT, Parks	short	done
4.3	Perform an assessment similar to the Forest Assessment every five years	Parks	5 years	planning for next assessment potential 2016/2017
4.4	Acquire leaf-on aerial or satellite photo and perform an urban tree canopy calculation every five years	Parks	5 years	new canopy study 2016
4.5	Compare 5 year data with canopy goals set for various sub areas in the Comprehensive Plan	Parks, NDS, Public Works	5 years	currently underway
4.6	Create and publish a report on the State of the Urban Forest every five years after new data collection and analysis is complete	Parks	5 years	TC reports on state of the Forest annually
4.7	Include latest urban tree canopy information in comprehensive plan updates	Parks, NDS	5 years	currently underway
4.8	Provide greater trail access into public forested areas	Parks	medium	ongoing
4.9	Utilize a Risk Rating Index to rank tree risks	Parks	ongoing	
4.1	Calculate and forecast carbon sequestration levels in the urban tree canopy as part of the climate protection agreement requirements	Parks, PW	short	
4.11	Establish a Tree Commission or Board – consider using existing group, such as Parks and Recreation Advisory Board	Parks, NDS, Manager	short	done
4.12	Track invasives species removal using GIS mapping	Parks, IT	ongoing	ongoing
4.13	Maintain GIS layer to include new and remove cut trees to keep inventory up to date	Parks, IT	ongoing	ongoing but needs improvement
4.14	Maintain records of utility work events that impact public forests (clearing land around lines)	Parks	ongoing	need to coordinate with other agencies
4.15	Update GIS layers such that parcels, planning neighborhoods, and city boundary all encompass the same amount of land area	Parks, IT, NDS	ongoing	done
4.16	Include tree and forest components and threat of loss in future build-out studies	NDS, TJPDC	medium	no build out study underway

Number	Tactic	Lead Department	Time Frame	2016 update
	EDUCATION, OUTREACH, AND PARTNERS			
5.1	Create, fund, and staff a City Environmental Educator position to coordinate efforts	Parks, Public Works	short	on hold
5.2	Develop and implement a comprehensive City staff education program. Consider using the City EMS as the tool for implementing this program.	Parks, Public Works	medium	Public Works recently adopted tree/siewalk conflict resolution document
5.3	Develop a public outreach strategy that will advance City staff and policy credibility, educate the public, and create documents for distribution		medium	On hold
5.4	Incorporate environmental interpretation into public education efforts in parks	Parks, Public Works	medium	meadow creek project signage is underway
5.5	Create a public education campaign to share information on forestry and tree best management practices for public and private properties	Parks, NDS	medium	on hold
5.6	Develop a strategy to educate City decision makers on urban forestry BMPs		medium	on hold (code audit?)
5.7	Enhance partnership with local advocates, e.g. Tree Stewards, Neighborhood Associations, Master Naturalists & Gardeners, Native Plant Society	Parks, Public Works, NDS	medium	ongoing - tree stewards are well connected to TC
5.8	Work with Charlottesville City Schools to enhance school curriculum on natural resources for SOL requirements	Parks, Schools	medium	on hold
5.9	Pursue programs for the planting of new trees on private property		ongoing	this will have to be done by non-city groups
5.10	Explore options for establishing a botanical garden and/or arboretum on public lands	Parks	medium	McIntire Botanical garden in progress
5.11	Puruse funding and land to create an environmental education center (possibly shared with the botanical/arboretum)	Parks, Public Works, NDS	medium	McIntire Botanical garden will house some environmental education
5.12	Use the Annual Arbor Day celebration as an educational opportunity and to highlight partnerships	Parks	annual	annual
5.13	Complete and utilize the planned and existing greenway system to educate trail users and park visitors about trees	Parks, NDS	medium	ongoing
5.14	Utilize the upcoming Meadow Creek Stream Restoration project as an educational opportunity about forest management	Parks, NDS, Public Works	short	meadow creek project signage is underway
5.15	Promote the "Funds for the Forest" program as a means of collecting donations to implement the goals of this plan	Parks, NDS, Public Works	short	need to identfy means of promotion
5.16	Inform the public about tree plantings on public lands	Parks	ongoing	routine

Number	Tactic	Lead Department	Time Frame	2016 update
	SUSTAINABLE MANAGEMENT			
6.1	Prepare annual implementation plan to define scope of work for urban forest management	Parks	annual	annual
6.2	Continue to manage Invasive Species, using recommendations contained in the Invasive Species Assessment and Management Plan	Parks	ongoing	ongoing
6.3	Continue to integrate sustainable maintenance methods through the EMS for tracking and management purposes	Parks, PW	ongoing	IPM adopted
6.4	Adopt industry BMPs as part of the Parks and Recreation Departmental Maintenance Standards and all City landscaping decisions and new City projects	PW, NDS	medium	routine
6.5	Adopt a Wildlife Management Policy to guide staff actions when conflicts occur (e.g. with beaver, deer, Canada geese, rodents, etc.)	Parks	short	no progress
6.6	Expand No-Mow Zones to other areas of parks and schools, convert appropriate locations to interpretive educational areas such as meadows and rain gardens to advance educational opportunities	Parks	ongoing	we have done as many as possible - no further plans
6.7	Share BMPs with private landowners as information to consider in management of their tree and forest resources.	Parks	medium	not City responsibility
6.8	Encourage local utilities to become Tree Line USA certified through the Arbor Day Foundation	Parks	medium	Dominion is a Tree Line USA utility
6.9	Continue to review & update City Vegetative Debris Management Plan (See Appendix 6)	Parks, PW	ongoing	updated 2011
6.10	Update development codes to help ensure adequate forest canopy is preserved or replanted according to performance based standards	NDS	medium	code audit
6.11	Continue commitment that the City will only pursue green building practices for the development and redevelopment of all City lands, to include tree preservation tactics	NDS, Parks, PW, Manager	ongoing	
6.12	Promote urban forest tree species diversity through planting recommended site adaptable trees and encouraging use of native tree species	Parks, NDS	ongoing	routine
6.13	Clarify property ownership of paper streets and alleys. Inconsistency of maintenance on utility easements; potential for new tree planting in alleys that are truly private property	NDS, IT, PW, Parks	medium	Green Infrastructure project has done this, attorneys office handles this issue
6.14	Determine sustainable funding sources for urban forest activities including: Annual Operating Budget, CIP budget, development proffers, non-profits, private contributions – “Funds for the Forest”, grants, and use of free volunteers	Parks	ongoing	mall request made
6.15	Implement a stormwater utility to provide a dedicated funding stream to support a Water Resources Protection Program (WRPP) that will include stormwater management improvements	PW	short	done