2018 Greene Tract Conceptual Plan (Preservation and Development Scenarios)

Overview

At the May 17, 2017 Managers, Mayors, and Chair (MMC) meeting, staff was requested to examine the development potential of the existing Greene Tract and provide three alternatives illustrating high, medium, and low development options. The MMCs requested that each alternative include specific elements including, but not limited to, a site for a future elementary school, a site for a future park, highlight environmental and cultural areas of significance, development potential, and preliminary road network and infrastructure.

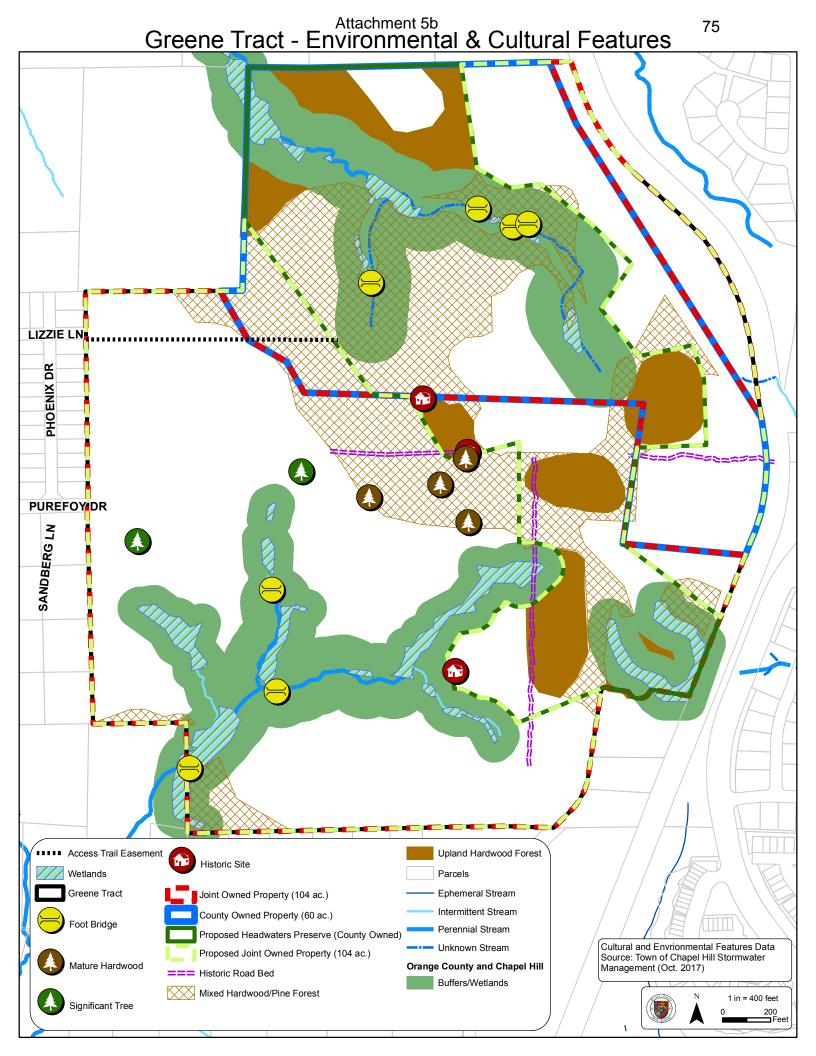
The three alternatives included a project area of approximately 164 acres (104 acres in joint ownership and 60 acres in County ownership, as requested to be added to a comprehensive review) of land divided into sections based on the project area's environmental conditions, elements of the 2002 Joint Governments Resolution, Rogers Road Task Force report, Mapping Our Community's Future report, and previous land use discussions. The alternatives proposed various land uses and elements based on feedback from the community, previous planning efforts, staff, and local government leaders' objectives for the Greene Tract.

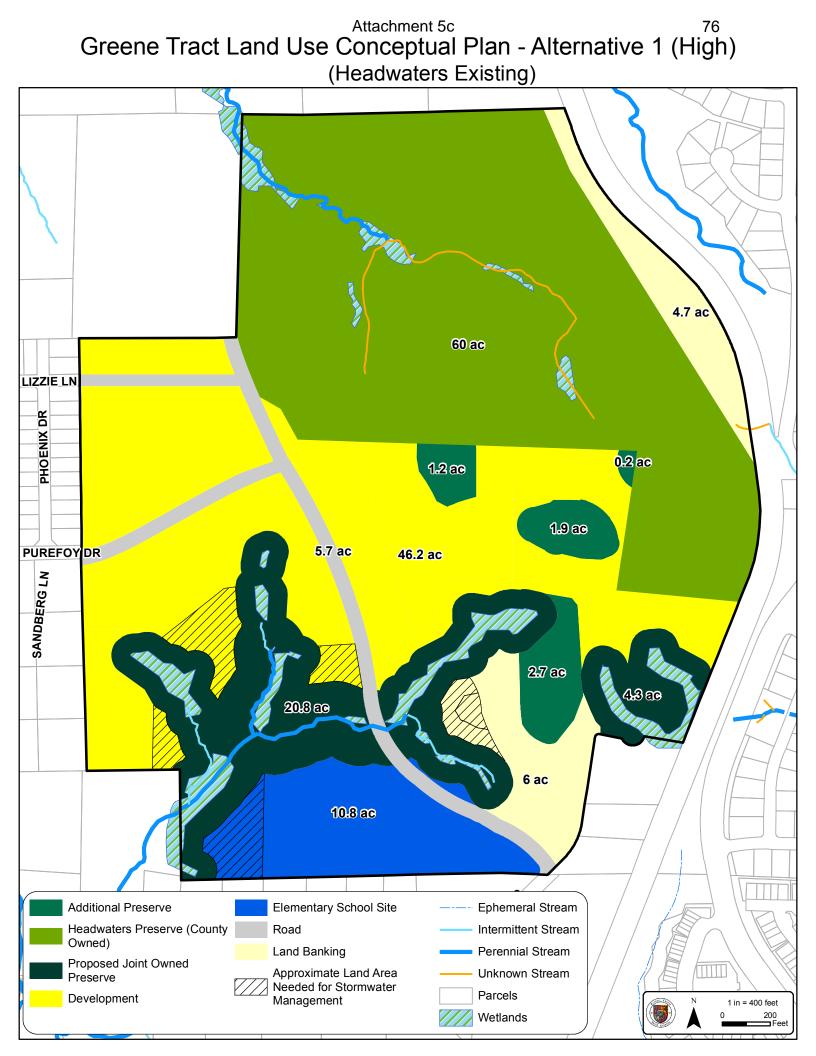
- Environmental Features: All three alternatives strive to protect areas of environmental concern including upland hardwood forests, wetlands, intermittent streams, and perennial streams located. These features are identified as areas of preserve which would not be developed in the future on all three alternatives. In *addition* to the acreage proposed for preserve, approximately 10 20% of the acreage proposed for development will be utilized for open space to provide areas of on-site preserve and connections to other areas of offsite preserve. Throughout the process, environmental staff from the Town of Chapel Hill, the Town of Carrboro, and Orange County provided feedback to develop alternatives which protected environmental areas and habitats located on the Greene Tract. Conceptual plans also included areas which may provide stormwater protections to the site.
- Cultural Features: Alternatives incorporated the location of cultural resources (i.e. footbridge, significant tree, historic homestead) in order to examine the protection and incorporation of these features in the future site design. For example, historical road beds and existing trails may be incorporated into the site design as a future greenway or trail system connecting the areas of preserve throughout the site.
- Elementary School Site and Recreational Facility Site: A school site is proposed on the southern portion of the Greene Tract. The original school site was originally proposed as part of the 18 acres designated for development in the Rogers Road Task Force Report. However, due to environmental constraints, the school site was relocated and is not included as part of the original acres identified for development. The proposed recreational facility site is also located on the southern portion of the Greene Tract in order to provide access to the future elementary school students. Chapel Hill—Carrboro City Schools staff was included in the process and provided support for the proposed school site and recreational facility site, which could also support community usage.
- Development: The proposed alternatives include areas for development in the short term. The location for future development was determined based on site elevations and proximity to existing public infrastructure. The proposed location focused on the northwest section of the site which was identified for housing (possible mixed-use) in the Rogers Road Task Force Report, but the program of density and affordability integration is a later stage.

- Land Banking: Alternatives include areas without critical environmental concerns or constraints for future land banking. These areas would remain undeveloped and preserved, but may be evaluated for development in the long term (10 – 20 years) depending on the needs of the community and planning partner approvals at that time.
- Road: The preliminary roadway design was based on existing environmental features and elevations contained on site. The proposed roadway network is similar to the 2017 concept plan, excluding the railroad crossing to Weaver Dairy Extension. Staff has explored the opportunity for an at-grade crossing to Weaver Dairy Extension Road with Norfolk Southern Rail. A new crossing at Weaver Dairy Extension would require the closing of possibly two to three at-grade crossings in other locations along the rail line. The proposed alternatives recognize a need for additional roadway connections similar to all previous planning efforts. Purefoy Drive would not be able to provide the only access to the site. Therein, future access to Eubank Road, Homestead Road, and second access to Rogers Road is noted.
- Further evaluation related to infrastructure (i.e. additional roadway connections), zoning standards, land use regulations, environmental features, cultural resources, and development decisions will impact and alter the proposed alternatives in the future.

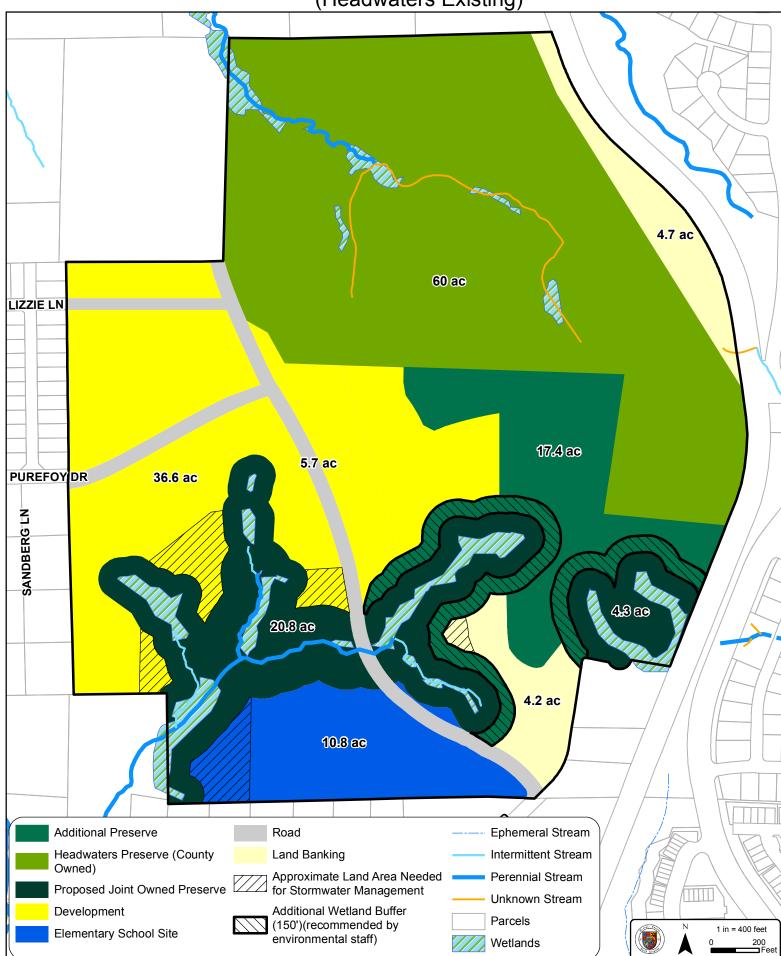
August 30 Managers, Mayors, and Chair (MMC) meeting

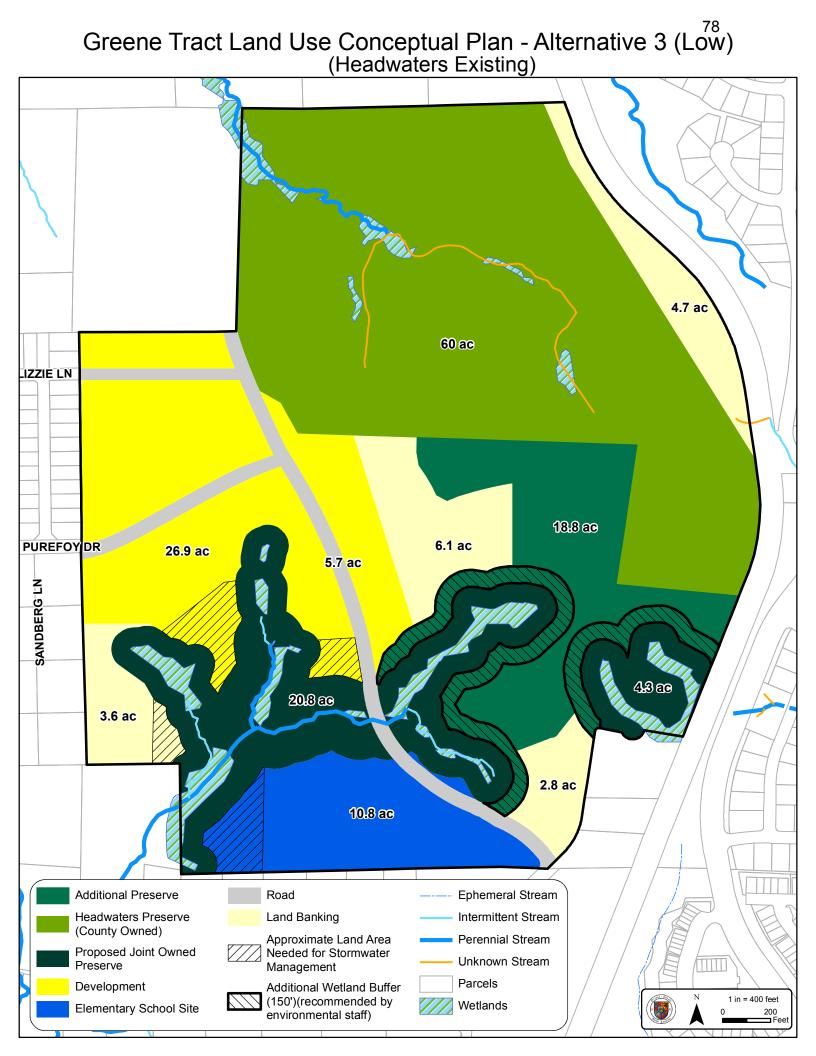
During the August 30 MMC meeting, attendees provided comments and recommendations regarding the proposed alternatives. One recommendation was for staff to examine the reconfiguration of the joint owned and county owned tracts. The purpose of this request was to determine the feasibility in adopting a revised resolution supporting the reconfiguration of these tracts. The 60 acres which are county owned will be established as prime preservation areas and be connected to the future joint owned preserve areas of the 104 joint owned lands. As a result, staff has amended the proposed conceptual plan based on the proposed reconfigured joint owned and county owned tracts. The amended plans and reconfigured tracts were drafted with environmental staff from the Town of Chapel Hill, the Town of Carrboro, and Orange County in order to create new parcels which endeavored to protect environmental features and habitats located on site.





Greene Tract Land Use Conceptual Plan - Alternative 2 (Medium) (Headwaters Existing)





Greene Tract Land Use Conceptual Plan

(Possible Modifications to Headwaters Preserve Areas)

Three alternatives were drafted which included a project area of approximately 164 acres of land divided into proposed land uses based on the project area's environmental conditions, elements of the 2002 Chapel Hill Resolution, Rogers Road Task Force report, Mapping Our Community's Future report, and local government leaders' objectives for the Greene Tract. All three proposed alternatives are based on possible modifications to the Headwaters Preserve areas.

Alternatives must provide three levels of development and incorporate:		Additional consideration will be required for several elements of the Greene Tract:	
		Roadway design	
 School site 	-	Site infrastructure (i.e. water, sewer, fiber)	
 Recreational facility site 	-	Open space, recreational facility, and tree canopy preserva-	
 Park space 		tion	
 Natural preservation areas 	-	Environmental (i.e. wetlands, streams, buffers, stormwater	
 Development 		regulations)	
 Road network and infrastructure 	-	Low Impact Development	
 Environmental buffers 	-	Cultural and historical features	
 Cultural areas of significance 	-	Density, land use, and zoning regulations Transit	
		Transic	

• Further evaluation will impact and alter the proposed alternatives in the future

• Site plan review process will address additional land use issues and help shape the plan for the Greene Tract

Land Use Categories

Proposed Joint Owned Preserve: Includes areas of existing wetlands and streams located on the Greene Tract. Wetland and stream information is based on information collected from Town of Chapel Hill, Town of Carrboro, and Orange County staff. Buffer standards were determined based on a review of the Towns' and County's standards and utilizing the most restrictive. Additional analysis and delineation will be required moving forward. These areas would not be developed, but will remain as natural preserve areas in the future.

Additional Preserve: Includes areas for future preservation and upland hardwood forest which are not contained in the required preserve areas. In addition to the acreage proposed to be preserved, approximately 10 - 20% of the acreage proposed for development will be utilized for open space to provide areas of on-site preserve and connections to other areas of offsite preserve.

Proposed Headwaters Preserve (County Owned): Includes the original 60 acres designated for preservation by the Towns and County.

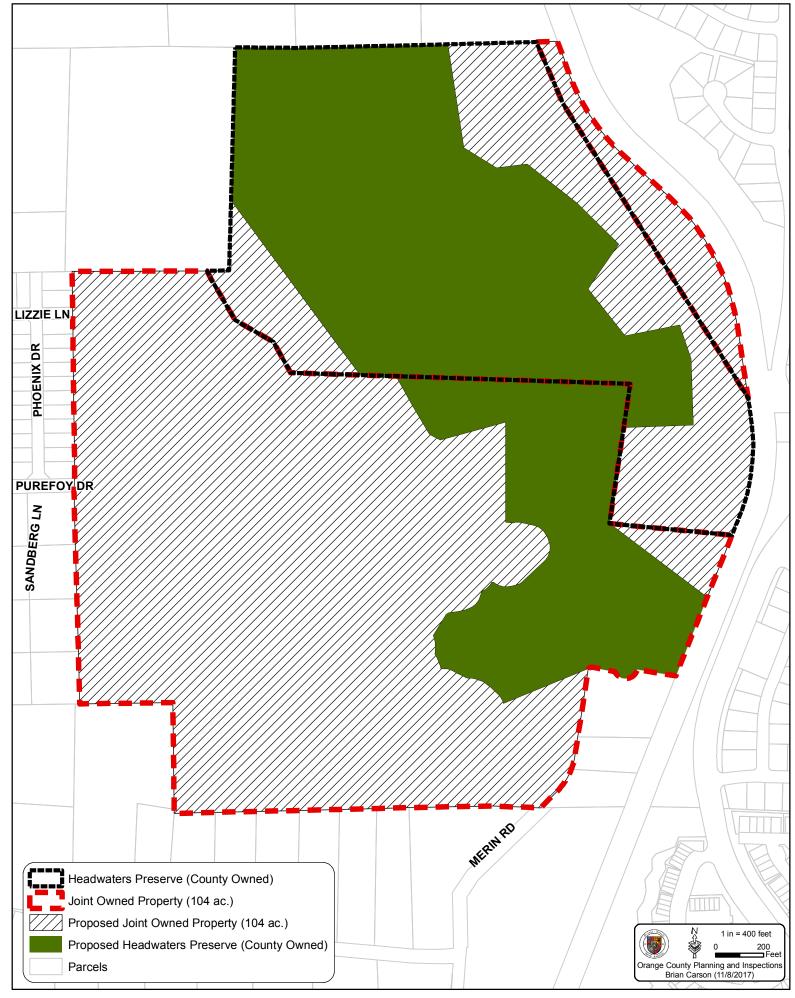
Elementary School Site: Includes acreages allocated for a future elementary school site. The proposed school site has been relocated to the southern portion of the site due to environmental constraints and is not included as part of the original 18 acres designated for development in the Rogers Road Task Force Report. Chapel Hill—Carrboro City Schools staff has reviewed the proposed alternatives and provides support for the proposed location.

Development: Includes areas proposed for development in the short term. The location for this category was determined based on site elevations and proximity to existing infrastructure. In addition, the proposed location for development includes the original 18 acres identified for affordable housing in the Rogers Road Task Force Report. Includes possible locations for on-site stormwater facilities.

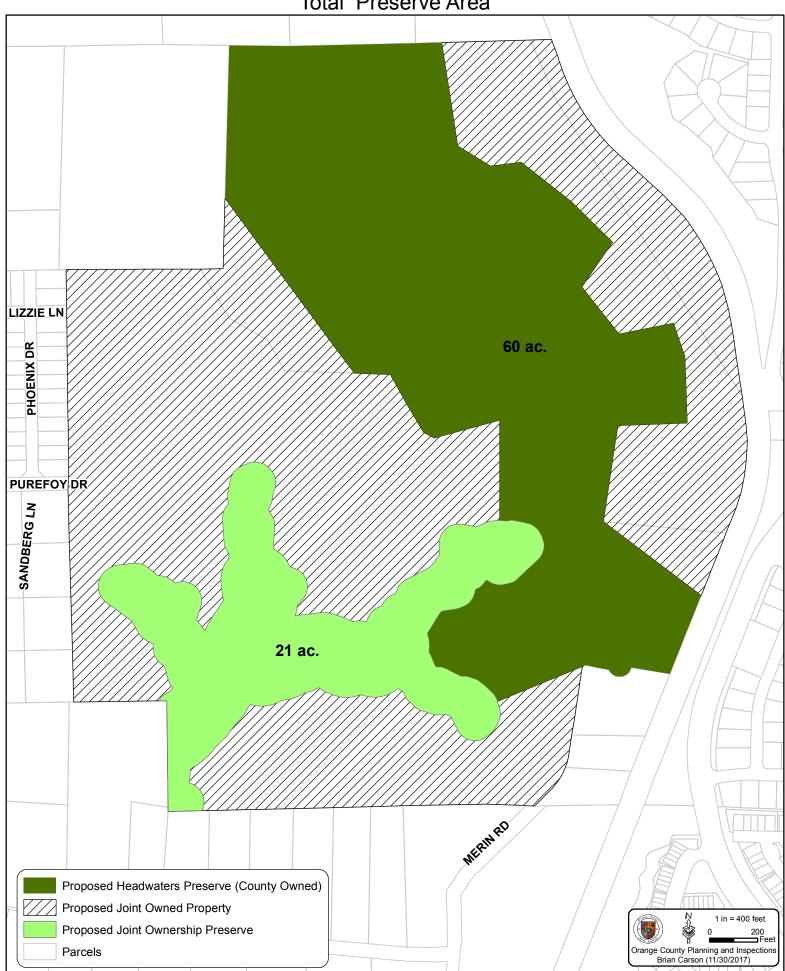
Road: The preliminary roadway design was based on existing environmental concerns and elevations contained on site. The proposed alternatives recognize a need for additional roadway connections in the future.

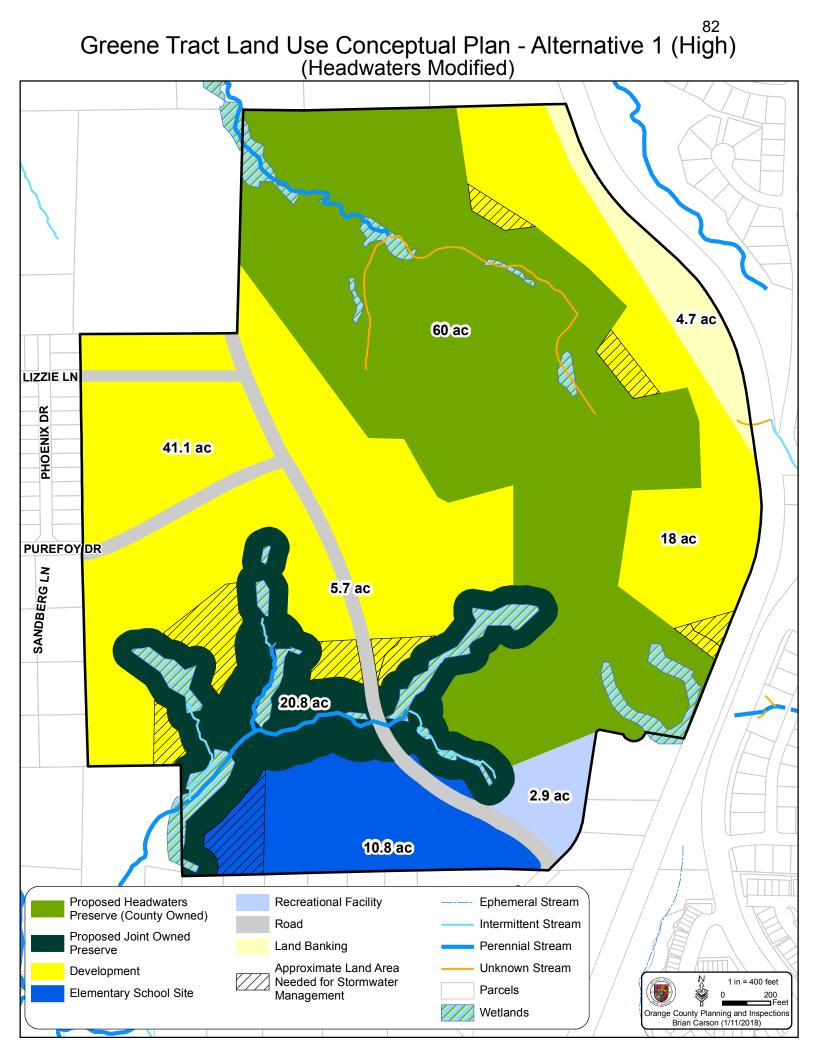
Land Banking: Includes areas without environmental concerns and access to infrastructure which may provide an opportunity for future development. These areas will remain undeveloped in the short term, but may be evaluated for development (i.e. residential, commercial, health services, and/or park/recreational facility) in the long term (10-20 years) depending on the needs of the community and planning partners at that time.

Possible Modifications to Headwaters Preserve Area

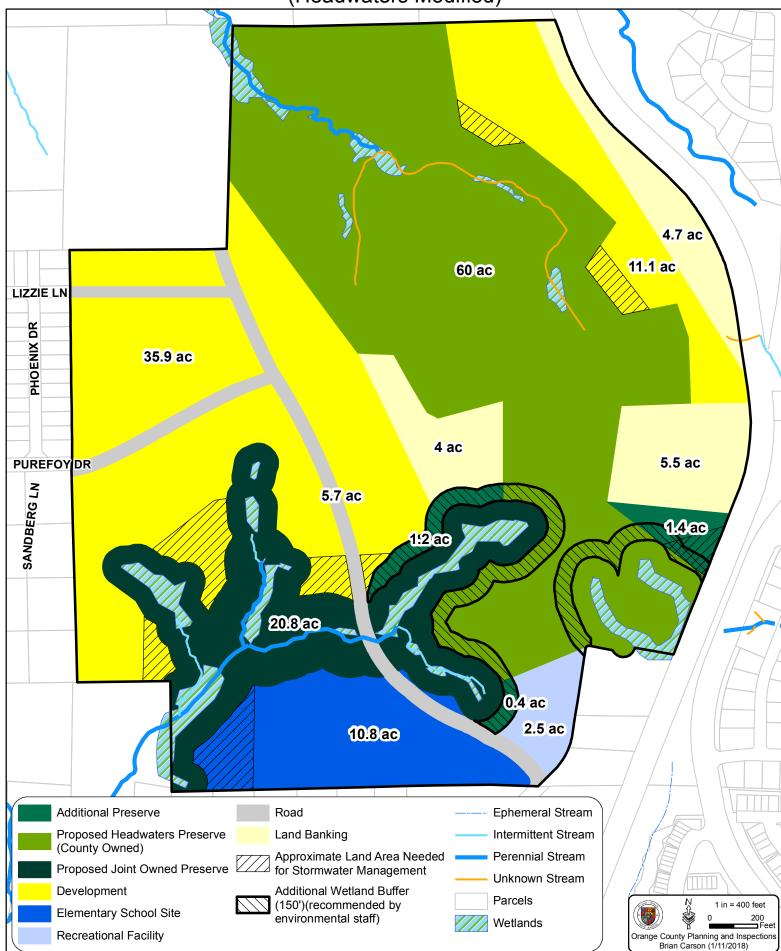


Possible Modifications to Headwaters Preserve Area Total Preserve Area

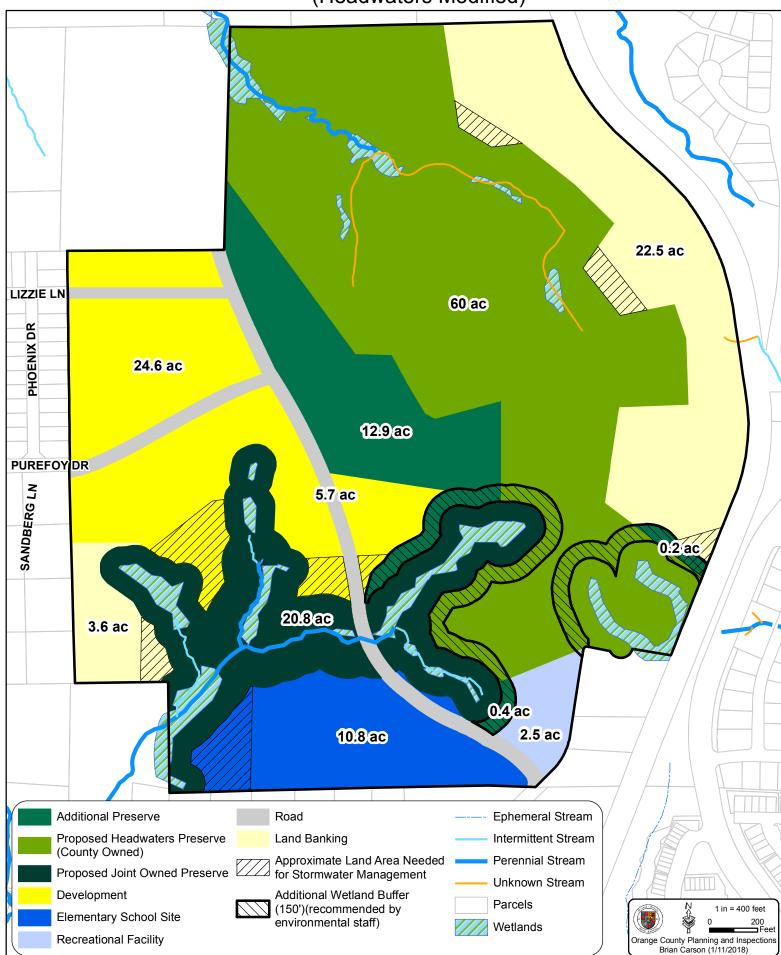




63 Greene Tract Land Use Conceptual Plan - Alternative 2 (Medium) (Headwaters Modified)



Greene Tract Land Use Conceptual Plan - Alternative 3 (Low) (Headwaters Modified)



Attachment 5d	Preserve		Development		Land B	85 Land Banking		
Alternative 1 Illustrates a high development option with the greatest amount of acreage designated for development compared to the other		.8 ac.	. 20%	78.5 ac.	75.5%	4.7 ac.	4.5%	
		ed 1 .1 es	Low Density (4-6 units/acre) 236 - 354) (6-10	ium Density) units/acre) 354 - 591	(10-20 ເ	Density Inits/acre) - 1182	
alternatives.	<u> </u>							
 Pros More acreage designated for development in the short term Provides greatest opportunity for highest number affordable housing and market rate housing to hel meet housing demand in the urban area More acreage available for development to offset infrastructure costs Allows for double road frontage to offset road and infrastructure costs More development and residential units to support transit 	of p	- t - (- [Additional stormw amount of potent Protects the least term developmen Only allows for the Depending on der Drive and Merin R	ial developn amount of r t e required 8 nsity, may ha	nent and increa nixed hardwoo 0 foot wetland	ased impervio od/pine fores buffer	ous surfaces t from short	
Alternative 2		Р	reserve	Devel	Development		Land Banking	
Illustrates a moderate development option by shifting acreage away from the develop-	23	.8 ac	. 22.9%	66 ac.	63.4%	14.2 ac.	13.7%	
ment land use with the transfer of acreage to additional preserve and land banking. Al- so allows for a 150 buffer along a portion of		ed 1	Low Density (4-6 units/acre)		Medium Density (6-10 units/acre)		High Density (10-20 units/acre)	
the existing wetlands located onsite.	acro	es	188 - 282	2	282 - 470	470) - 940	
 Proposes 150 foot wetland buffer adjacent to wild corridor Allows for additional areas of preserve Provides opportunity for a mid-range of affordable housing and market rate housing to meet the gen housing demand More acreage available for development to offset frastructure costs Allows for double road frontage to offset road and infrastructure costs 	e eral in-							
		Р	reserve	Devel	opment	Land B	anking	
Alternative 3	34	.3 ac	. 33%	43.6 ac.	41.9%	26.1 ac.	25.1%	
Illustrates a low development option by shifting additional acreage away from the development land use category to the addi-		ed 1	Low Density (4-6 units/acre)		ium Density) units/acre)	_	Density Inits/acre)	
tional preserve and land banking.	24. acre		98 - 147	1	.47 - 246	246	5 - 492	
 Pros Proposes 150 foot wetland buffer adjacent to wildlife corridor Allows for additional areas of preserve Strives to protect the existing wildlife corridor and provide for landscape connectivity Protects the greatest amount of Mixed Hardwood Pine Forest from short term development Depending on density, may have less traffic impact Purefoy Drive and Merin Road 	/		s Less acreage is av Provides lowest o housing to help m Less acreage avai Does not allow fo structure costs Less developmen	opportunity f neet housing lable for dev or double roa	for affordable h g demand in the velopment to o ad frontage to o	nousing and r e urban area ffset infrastru offset road au	narket rate ucture costs nd infra-	

Affordable Housing Potential

Alternative 1 (High) – Potential Number of Residential Units						
Based on 59.1 Acres	Low DensityMedium Density4 - 6 units/acre6 - 10 units/acre		High Density 10 - 20 units/acre			
55.1 ACC3	236 - 354 units	354 - 591 units	591 - 1182 units			
Potential Number of Affordable Housing Units						
15%	35 – 53 units	53 – 88 units	88 – 177 units			
20%	47 – 70 units	70 – 118 units	118 – 236 units			
35%	82 – 123 units	123 – 206 units	206 – 413 units			

Alternative 2 (Medium) – Potential Number of Residential Units						
Based on 47 Acres	Low Density 4 - 6 units/acre	Medium Density 6 - 10 units/acre	High Density 10 - 20 units/acre			
T/Acres	188 - 282 units	282 - 470 units	470 - 940 units			
Potential Number of Affordable Housing Units						
15%	28 – 42 units	42 – 70 units	70 – 141 units			
20%	37 – 56 units	56 – 94 units	94 – 188 units			
35%	65 – 98 units	98 – 164 units	164 – 329 units			

Alternative 3 (Low) – Potential Number of Residential Units						
Based on 24.6 Acres	Low Density 4 - 6 units/acre	Medium Density 6 - 10 units/acre	High Density 10 - 20 units/acre			
24.0 ACIES	98 - 147 units	147 - 246 units	246 - 492 units			
Potential Number of Affordable Housing Units						
15%	14 – 22 units	22 – 36 units	36 – 73 units			
20%	19 – 29 units	29 – 49 units	49 – 98 units			
35%	34 – 51 units	51 – 86 units	86 – 172 units			