Appendix A – Hydrologic Unit Codes by Basin and Management Priority

APPENDIX A

Hydrologic Unit Codes by Basin and Management Priority

Metropolitan North Georgia Water Planning District Watershed Management Plan

Associated County/*City*	Watershed	HUC-12 #	TMDL Watershed Present	Source Water Watershed Present	Existing EIA > 10%
Chattahoochee					
Hall	Chattahoochee River-Mossy Creek	31300010302	Yes	Yes	
Hall	Mud Creek	31300010303	Yes	Yes	
Hall, *Clermont, Lula*	Chattahoochee River-Flat Creek	31300010304	Yes	Yes	
Hall, *Gainesville*	Lake Lanier-Chattahoochee River	31300010305	Yes	Yes	
Hall	Wahoo Creek-Lake Lanier	31300010401	Yes	Yes	
Hall	West Fork Little River	31300010402	Yes	Yes	
Hall, *Clermont*	East Fork Little River	31300010403	Yes	Yes	
Hall, *Gainesville*	Lake Lanier-Wahoo Creek	31300010404		Yes	
Hall	Chestatee River-Yellow Creek	31300010701		Yes	
Hall, Forsyth	Lake Lanier-Chestatee River	31300010702	Yes	Yes	
Hall	Latham Creek	31300010703		Yes	
Forsyth	Taylor Creek	31300010704	Yes	Yes	
Hall, Forsyth	Lake Lanier-Bolling Bridge	31300010705		Yes	
Hall, *Gainesville*	Ada Creek	31300010801	Yes	Yes	
Forsyth, Hall	Twomile Creek	31300010802	Yes	Yes	
Hall, *Gainesville, Oakwood*	Flat Creek	31300010803	Yes	Yes	Yes
Hall, *Flowery Branch, Oakwood*	Flowery Branch	31300010804	Yes	Yes	
Forsyth	Fourmile Creek	31300010805	Yes	Yes	
Forsyth	Sixmile Creek	31300010806		Yes	
Forsyth	Young Deer Creek	31300010807		Yes	
Forsyth, *Cumming*	Bald Ridge Creek	31300010808	Yes	Yes	
Hall, Gwinnett, *Buford*	Big Creek	31300010809	Yes	Yes	
Forsyth, Gwinnett, *Buford, Sugar Hill*	James Creek	31300010901	Yes	Yes	
Forsyth, Gwinnett, *Suwanee, Sugar Hill*	Level Creek	31300010902	Yes	Yes	
Gwinnett, *Buford, Suwanee*	Ivy Creek	31300010903		Yes	
Gwinnett, Hall, *Buford, Rest Haven, Suwanee, Sugar Hill*	Suwannee Creek	31300010904	Yes	Yes	Yes
Fulton, Gwinnett, *Berkeley Lake, Duluth*	Cauley Creek	31300010905		Yes	Yes
Forsyth, Fulton	Johns Creek	31300010906	Yes	Yes	Yes
Fulton, Gwinnett, *Roswell, Norcross*	Crooked Creek	31300010907	Yes	Yes	Yes
Cherokee, Forsyth, *Cumming*	Big Creek-Bentley Creek	31300011001	Yes	Yes	
Forsyth, Fulton, *Alpharetta*	Big Creek-Bagley Creek	31300011002		Yes	Yes
Fulton, *Alpharetta, Roswell*	Big Creek-Long Indian Creek	31300011003		Yes	Yes
Fulton, *Alpharetta, Roswell*	Big Creek-Foe Killer Creek	31300011004	Yes	Yes	Yes
Cobb, Fulton, *Roswell*	Chattahoochee River-Marsh Creek	31300011101	Yes	Yes	Yes
Cobb, Fulton, *Roswell*	Willeo Creek	31300011102	Yes	Yes	
Cobb, *Marietta*	Chattahoochee River-Sope Creek	31300011103	Yes	Yes	Yes
Cobb, *Marietta, Smyrna*	Rottenwood Creek	31300011104	Yes	Yes	Yes
Fulton, Cobb, *Atlanta*	Chattahoochee River-Long Island Creek	31300011105	Yes	Yes	Yes
Cobb, Fulton, *Atlanta, Smyrna*	Chattahoochee River-Interstate 75	31300011106	Yes	Yes	Yes
DeKalb, Fulton, Gwinnett, *Atlanta, Chamblee, Doraville, Norcross*	North Fork Peachtree Creek	31300011201	Yes		Yes
DeKalb, Fulton, *Atlanta, Avondale Estates, Clarkston, Decatur*	Upper South Fork Peachtree Creek	31300011202	Yes		Yes
DeKalb, Fulton, *Atlanta, Chamblee, Doraville*	Nancy Creek-Peachtree Creek	31300011203	Yes		Yes
DeKalb, Fulton, *Atlanta*	Peachtree Creek	31300011204	Yes		Yes
Cobb, Fulton, *Smyrna, Atlanta*	Chattahoochee River-Proctor Creek	31300020101	Yes		Yes
Cobb, *Smyrna*	Nickajack Creek	31300020102	Yes		Yes
Fulton, *Atlanta, East Point*	Utoy Creek	31300020103	Yes		Yes
Cobb, Douglas, Fulton, *Atlanta*	Chattahoochee River-Wilson Creek	31300020104	Yes		Yes

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Associated County/*City*	Watershed	HUC-12 #	TMDL Watershed Present	Source Water Watershed Present	Existing EIA > 10%
Douglas, Paulding, *Villa Rica*	Sweetwater Creek-upper-Chattahoochee River	31300020201	Yes	Yes	
Paulding, Cobb, *Hiram, Dallas*	Mill Creek-Sweetwater Creek	31300020202		Yes	
Cobb, Douglas, Paulding, *Austell, Douglasville, Lithia Springs*	Sweetwater Creek-middle-Chattahoochee River	31300020203	Yes	Yes	
Cobb, Paulding, *Austell, Power Springs, Hiram*	Powder Springs Creek	31300020204		Yes	
Cobb, *Marietta*	Noses Creek-upper	31300020205	Yes	Yes	
Cobb, *Austell, Power Springs*	Noses Creek-lower	31300020206	Yes	Yes	
Cobb, *Austell, Marietta*	Olley Creek	31300020207	Yes	Yes	Yes
Cobb, Douglas, *Austell, Douglasville, Lithia Springs*	Sweetwater Creek-lower-Chattahoochee River	31300020208	Yes	Yes	Yes
Douglas, Fulton	Chattahoochee River-Tuggle Creek	31300020301	Yes		
Clayton, Fulton, *College Park, Atlanta, East Point*	Camp Creek-Chattahoochee River	31300020302	Yes		
Fulton, *Fairburn, Union City*	Deep Creek	31300020303			
Douglas, *Douglasville*	Anneewakee Creek	31300020304	Yes		Yes
Fulton	Pea Creek	31300020305	Yes		
Douglas, *Douglasville*	Bear Creek-Chattahoochee River	31300020306	Yes	Yes	
Coweta, Fulton, *Fairburn, Palmetto*	Chattahoochee River-Bear Creek	31300020307	Yes		
Douglas, *Villa Rica*	Dog Creek-upper	31300020308	Yes	Yes	
Douglas, *Douglasville*	Dog Creek-lower	31300020309	Yes	Yes	
Douglas	Wolf Creek	31300020310	Yes		
Coweta, Douglas, Fulton	Chattahoochee River-Hurricane Creek	31300020312	Yes		
Coweta, *Whitesburg*	Chattahoochee River-Acorn Creek	31300020401	Yes		
Fulton, Coweta, *Palmetto*	Cedar Creek-Chattahoochee River	31300020402	Yes	Yes	
Coweta, *Newnan*	Wahoo Creek-Chattahoochee River	31300020403	Yes		
Coweta	Chattahoochee River-Pink Creek	31300020408	Yes		
Coweta, *Corinth, Grantville, Moreland*	New River-upper	31300020501	Yes		
Coweta, *Newnan*	Mountain Creek	31300020502	Yes		
Coweta, *Newnan*	Sandy Creek	31300020503		Yes	
Coweta	Caney Creek	31300020504	Yes		
Coweta, *Grantville, Moreland*	Yellowjacket Creek-upper	31300020701			
Coweta, *Grantville*	Yellowjacket Creek-middle	31300020702			
	Totals		**60**	**52**	**24**
Percent of Total for Chattahoochee Basin			**78%**	**68%**	**32%**
Coosa					
Cherokee	Salacoa Creek-Little Creek	31501020601			
Bartow, Cherokee	Salacoa Creek-Ninetynine Branch	31501020602			
Bartow, Cherokee	Pine Log Creek-upper	31501020701			
Bartow	Little Pine Log Creek	31501020702			
Bartow	Cedar Creek-Pine Log Creek	31501020703			
Bartow	Pine Log Creek-middle	31501020704			
Bartow, *Adairsville*	Oothkalooga Creek-upper	31501030201			
Bartow, *Adairsville*	Oothkalooga Creek-middle	31501030202			
Cherokee, Forsyth	Etowah River-Hightower Road	31501040301	Yes	Yes	
Cherokee	Yellow Creek	31501040302		Yes	
Forsyth	Brewton Creek	31501040303		Yes	
Forsyth	Squattingdown Creek	31501040304		Yes	
Cherokee, Forsyth	Hurricane Creek	31501040305		Yes	
Cherokee, Forsyth	Etowah River-Conn Creek	31501040306	Yes	Yes	
Cherokee, *Nelson*	Long Swamp Creek-East Branch	31501040403	Yes	Yes	
Cherokee, *Nelson, Ball Ground*	Long Swamp Creek-Fourmile Creek	31501040404	Yes	Yes	
Cherokee	Sharp Mountain Creek-upper	31501040502		Yes	
Cherokee	Rock Creek	31501040503		Yes	
Cherokee	Soap Creek	31501040504		Yes	

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Associated County/*City*	Watershed	HUC-12 #	TMDL Watershed Present	Source Water Watershed Present	Existing EIA > 10%
Cherokee, *Nelson*	Sharp Mountain Creek-middle	31501040505	Yes	Yes	
Cherokee, *Ball Ground*	Sharp Mountain Creek-lower	31501040506	Yes	Yes	
Cherokee, *Ball Ground*	Etowah River-Smithwick Creek	31501040601		Yes	
Cherokee	Etowah River-Edward Creek	31501040602		Yes	
Cherokee, *Canton*	Etowah River-Hickory Log Creek	31501040603		Yes	
Cherokee, *Canton*	Canton Creek	31501040604		Yes	
Cherokee, *Canton*	Etowah River-Jug Creek	31501040605	Yes	Yes	
Cherokee, *Waleska*	Shoal Creek-upper	31501040701		Yes	
Cherokee, *Waleska*	McCanless Creek	31501040702		Yes	
Cherokee	Lost Town Creek	31501040703		Yes	
Bartow, Cherokee	Shoal Creek-lower	31501040704	Yes	Yes	
Cherokee, Fulton	Little River-upper	31501040801		Yes	
Cherokee, Forsyth, Fulton	Chicken Creek	31501040802		Yes	
Cherokee, Fulton, *Alpharetta, Roswell*	Little River-middle	31501040803		Yes	
Cherokee, Cobb, Fulton, *Mountain Park, Woodstock, Roswell*	Little Creek-lower	31501040804	Yes	Yes	
Cherokee, *Holly Springs*	Mill Creek-Little River	31501040805		Yes	
Cherokee, Cobb, *Woodstock*	Rubes Creek	31501040806	Yes	Yes	
Cobb, *Kennesaw, Marietta*	Noonday Creek-upper	31501040807		Yes	Yes
Cherokee, Cobb, *Woodstock, Marietta*	Noonday Creek-lower	31501040808	Yes	Yes	Yes
Cherokee, *Canton, Holly Springs, Woodstock*	Lake Allatoona-Little River	31501040809	Yes	Yes	
Cobb, Paulding	Allatoona Creek	31501040901	Yes	Yes	
Cobb, *Acworth, Kennesaw*	Proctor Creek	31501040902	Yes	Yes	Yes
Bartow, Cherokee, Cobb, *Acworth*	Clark Creek	31501040903	Yes	Yes	
Bartow, Cobb, *Emerson, Acworth*	Lake Allatoona-Bethany Bridge	31501040904	Yes	Yes	
Cherokee, *Canton*	Lake Allatoona-Etowah River	31501041001	Yes	Yes	
Bartow, Cherokee	Stamp Creek	31501041002	Yes	Yes	
Bartow	McKaskey Creek	31501041003	Yes	Yes	
Bartow, Cherokee	Illinois Creek	31501041004	Yes	Yes	
Paulding	Pumpkinvine Creek-Little Pumpkinvine Creek	31501041101			
Paulding, *Dallas*	Pumpkinvine Creek-Weaver Creek	31501041102			
Paulding, *Dallas*	Pumpkinvine Creek-Lawrence Creek	31501041103			
Cobb, Paulding	Little Pumpkinvine Creek	31501041104			
Bartow, Cobb, Paulding, *Emerson*	Pumpkinvine Creek-Westbrook Creek	31501041105	Yes		
Paulding, *Braswell*	Raccoon Creek-upper	31501041201			
Paulding, *Braswell*	Raccoon Creek-middle	31501041202			
Bartow, Paulding	Raccoon Creek-lower	31501041203	Yes		
Bartow, Paulding, *Cartersville, Emerson*	Etowah River-Ward Creek	31501041301	Yes		
Bartow, *Cartersville*	Nancy Creek-Pettit Creek	31501041302			
Bartow, *Cartersville, White*	Pettit Creek	31501041303	Yes		
Bartow, Paulding, *Cartersville, Euharlee*	Richland Creek	31501041304	Yes		
Paulding	Simpson Creek	31501041402			
Bartow, *Taylorsville*	Euharlee Creek-Aragon City	31501041405			
Bartow, Paulding, *Braswell, Taylorsville*	Euharlee Creek-Hills Creek	31501041406			
Bartow, Paulding, *Euharlee*	Euharlee Creek-Jones Branch	31501041407	Yes		
Bartow, *Euharlee*	Ashpole Creek	31501041501	Yes		
Bartow	Two Run Creek-upper	31501041502			
Bartow	Clear Creek	31501041503			
Bartow, *Kingston*	Two Run Creek-lower	31501041504	Yes		
Bartow, *Kingston*	Connesena Creek	31501041505	Yes		

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Associated County/*City*	Watershed	HUC-12 #	TMDL Watershed Present	Source Water Watershed Present	Existing EIA > 10%
Bartow, *Euharlee*	Etowah River-Macedonia Slough	31501041506	Yes		
Bartow	Etowah River-Reynolds Bend	31501041601	Yes		
Bartow	Toms Creek	31501041602	Yes		
Bartow	Spring Creek	31501041603	Yes		
	Totals		**33**	**39**	**3**
	Percent of Total for Coosa Basin		**46%**	**54%**	**4%**
Flint					
Clayton, Fulton, *Atlanta, College Park, East Point, Forest Park, Hapeville, Jonesboro, Lake City, Morrow, Riverdale*	Flint River-Jester Creek	31300050101	Yes	Yes	Yes
Clayton, Fayette, Fulton, *College Park, Riverdale*	Camp Creek-Flint River	31300050102	Yes	Yes	
Fayette, Fulton, *College Park, Fayetteville, Union City*	Morning Creek	31300050103		Yes	Yes
Clayton, Fayette, Henry, *Fayetteville, Woolsey, Lovejoy*	Flint River-Murphy Creek	31300050104	Yes	Yes	
Clayton, Fayette, Henry, *Hampton, Lovejoy*	Bear Creek-Flint River	31300050105			
Fayette, *Woolsey, Brooks*	Flint River-Horton Creek	31300050106	Yes	Yes	
Coweta, Fayette, Fulton, *Fairburn, Palmetto, Peachtree City, Tyrone*	Line Creek-upper	31300050201		Yes	
Coweta, *Peachtree City*	Shoal Creek	31300050202		Yes	
Coweta, Fayette, *Peachtree City, Tyrone*	Line Creek-middle	31300050203	Yes	Yes	
Fayette, Fulton, *Fairburn, Fayetteville, Union City*	Whitewater Creek-upper	31300050204	Yes	Yes	
Coweta, Fayette, *Brooks, Peachtree City, Fayetteville*	Whitewater Creek-lower	31300050205		Yes	
Coweta, Fayette, *Brooks, Haralson, Senoia, Sharpsburg, Turin*	Line Creek-lower	31300050206		Yes	
Coweta, *Newnan*	White Oak Creek-Headwaters	31300050301	Yes	Yes	
Coweta, *Newnan, Sharpsburg, Turin*	White Oak Creek-Pine Creek	31300050302	Yes		
Coweta, *Moreland*	White Oak Creek-Little White Oak Creek	31300050303	Yes		
Coweta	Bear Creek-White Oak Creek	31300050304			
Coweta, *Haralson, Turin*	Little White Oak Creek	31300050305			
Coweta, *Haralson*	White Oak Creek-Shoals Creek	31300050306			
	Totals		**9**	**12**	**2**
	Percent of Total for Flint Basin		**50%**	**67%**	**11%**
Ocmulgee					
Clayton, DeKalb, Fulton, *Atlanta, Forest Park, East Point, Hapeville*	South River-headwaters	30701030101	Yes		Yes
DeKalb, Fulton, *Atlanta, Decatur*	South River-Sugar Creek	30701030102	Yes		Yes
Clayton, DeKalb, Henry, *Atlanta, Forest Park, Decatur, Avondale Estates*	South River-Cobb Creek	30701030103	Yes		Yes
DeKalb, *Avondale Estates, Clarkston, Pine Lake, Stone Mountain*	Snapfinger Creek	30701030104	Yes		Yes
Clayton, DeKalb, Henry, Rockdale, *Lithonia*	South River-Pole Bridge Creek	30701030105	Yes		
DeKalb, Rockdale, *Lithonia*	Honey Creek	30701030106	Yes		
DeKalb, Henry, Rockdale	South River-Camp Creek	30701030107	Yes		
Clayton, Henry, *Forest Park, Lake City, Morrow, Stockbridge*	Big Cotton Indian Creek-upper	30701030201		Yes	Yes

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Metropolitan North Georgia Water Planning District Watershed Management Plan

Associated County/*City*	Watershed	HUC-12 #	TMDL Watershed Present	Source Water Watershed Present	Existing EIA > 10%
Clayton, Henry, Rockdale, *Stockbridge*	Big Cotton Indian Creek-middle	30701030202	Yes	Yes	
Clayton, Henry, *Jonesboro, Lovejoy, Stockbridge*	Little Cotton Indian Creek	30701030203		Yes	
Henry, *Stockbridge*	Big Cotton Indian Creek-lower	30701030204		Yes	
Henry	South River-Honey Creek	30701030301	Yes		
Clayton, Henry, *Lovejoy*	Walnut Creek-upper-South River	30701030302		Yes	
Henry, *McDonough*	Walnut Creek-lower-South River	30701030303		Yes	
Rockdale, *Conyers*	Snapping Shoals Creek	30701030304	Yes		
Henry	South River-Mackey Creek	30701030305	Yes		
Gwinnett, *Duluth, Lilburn, Norcross*	Beaver Ruin Creek	30701030401	Yes		Yes
Gwinnett, *Duluth*	Sweetwater Creek-upper-Yellow River	30701030402	Yes		Yes
DeKalb, Gwinnett, *Lilburn*	Sweetwater Creek-lower-Yellow River	30701030403	Yes		Yes
Gwinnett, *Lawrenceville, Suwanee*	Yellow River-Suwanee Creek	30701030404	Yes		Yes
Gwinnett, *Lawrenceville, Snellville*	Yellow River-Pew Creek	30701030405	Yes		Yes
DeKalb, Gwinnett, *Lilburn, Snellville*	Yellow River-Garner Creek	30701030406	Yes		Yes
DeKalb, Gwinnett, *Stone Mountain*	Yellow River-Stone Mountain Creek	30701030407	Yes		Yes
DeKalb, Gwinnett, Rockdale, *Lithonia, Snellville*	Yellow River-No Business Creek	30701030501	Yes		
Rockdale, *Conyers*	Yellow River-Carr Branch	30701030502	Yes		
Gwinnett, Walton, *Grayson, Loganville, Snellville*	Big Haynes Creek-upper	30701030503	Yes	Yes	
Gwinnett, Walton, Rockdale, *Loganville*	Little Haynes Creek	30701030504	Yes	Yes	
Gwinnett, Walton, Rockdale	Big Haynes Creek-lower	30701030505	Yes	Yes	
Rockdale	Yellow River-Dried Indian Creek	30701030601	Yes		
Walton, *Walnut Grove*	Gum Creek	30701030602			
Gwinnett, *Dacula, Lawrenceville*	Alcovy River-Shoal Creek	30701030701	Yes	Yes	Yes
Gwinnett, *Grayson, Lawrenceville*	Alcovy River-Palm Creek	30701030702		Yes	
Gwinnett, Walton, *Grayson*	Bay Creek	30701030703		Yes	
Gwinnett, Walton, *Between*	Alcovy River-Beaverdam Creek	30701030704	Yes	Yes	
Walton, *Monroe*	Alcovy River-Mountain Creek	30701030705		Yes	
Gwinnett, Walton, *Loganville, Jersey, Between*	Big Flat Creek	30701030706	Yes		
Walton, *Social Circle*	Alcovy River-Stroud Creek	30701030707		Yes	
Walton, *Jersey, Walnut Grove*	Cornish Creek	30701030708		Yes	
Henry, *McDonough*	Tussahaw Creek-upper	30701030901			
Henry, *Locust Grove*	Tussahaw Creek-middle	30701030902	Yes		
Henry, *Hampton*	Towaliga River-Thompson Creek	30701031101		Yes	
Henry	Towaliga River-Troublesome Creek	30701031102		Yes	
Henry, *Locust Grove*	Indian Creek	30701031103		Yes	
	Totals		**28**	**19**	**13**
	Percent of Total for Ocmulgee Basin		**65%**	**44%**	**30%**
Oconee					
Hall	Pond Fork-upper	30701010101			
Hall, *Gainesville*	Middle Oconee River-Allen Creek	30701010103	Yes		
Hall, *Gainesville, Oakwood*	Walnut Creek-upper-Middle Oconee River	30701010104	Yes		
Hall	Walnut Creek-lower-Middle Oconee River	30701010105	Yes		
Hall, Gwinnett, *Oakwood*	Mulberry River-Mulberry Creek	30701010201			
Hall, Gwinnett	Mulberry River-Duncan Creek	30701010202	Yes		
Gwinnett, *Auburn*	Little Mulberry River	30701010203			
Hall, *Gainesville, Lula*	North Oconee River-Cedar Creek	30701010401		Yes	

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Hall	North Oconee River-Buffington Mill Creek	30701010402		Yes	
Hall, *Gillsville*	Candler Creek	30701010403			
Gwinnett, *Auburn, Dacula*	Apalachee River-Drowning Creek	30701010801	Yes		
Gwinnett, Walton, *Auburn*	Apalachee River-Williamson Creek	30701010802	Yes		
Walton	Marbury Creek	30701010803	Yes		
Walton	Apalachee River-Wildcat Creek	30701010804	Yes		
Walton	Apalachee River-Shoal Creek	30701010805	Yes		
Walton, *North High Shoals*	Apalachee River-Lane Creek	30701010901	Yes		
Walton, *Good Hope, Monroe*	Jacks Creek-upper	30701010903			
Walton, *Good Hope*	Jacks Creek-lower	30701010904			
Walton, *Monroe, Social Circle*	Hard Labor Creek-Reedy Creek	30701011301		Yes	
Walton, *Social Circle*	Hard Labor Creek-Rocky Creek	30701011302		Yes	
Walton, *Good Hope*	Big Sandy Creek-upper	30701011304			
Walton, *Social Circle*	Little River-Nelson Creek	30701011401	Yes		
	Totals		**11**	**4**	
	Percent of Total for Oconee Basin		**48%**	**17%**	**0%**
Tallapoosa					
Paulding	Tallapoosa River-Mud Creek	31501080101			
Paulding	Brooks Creek	31501080102			
Paulding	Tallapoosa River-Water Mill Creek	31501080103			
	Totals		**0**	**0**	**0**
Percent of Total for Tallapoosa Basin			**0%**	**0%**	**0%**

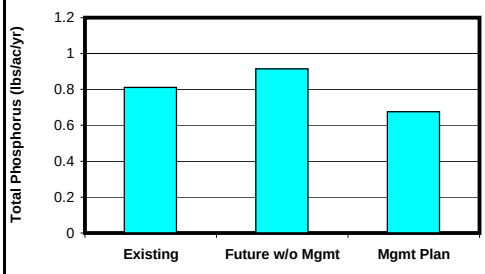
[1]The number of priority criteria exceeded by HUC, the higher the number the greater the priority for management.

Appendix B – Modeling Results

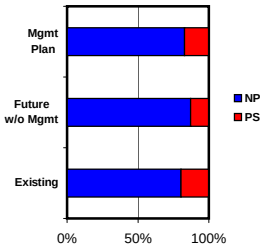
UPPER CHATTAHOOCHEE

Total Area (ac) 664,529 **Choose Parameter** Total Phosphorus

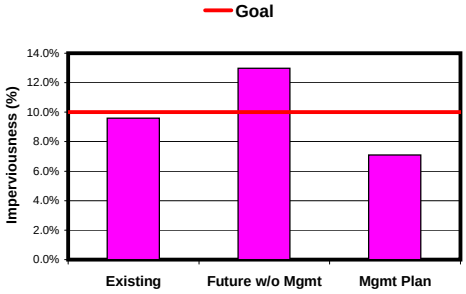
Alternatives Analysis Results for Total Phosphorus



Source Load Distribution

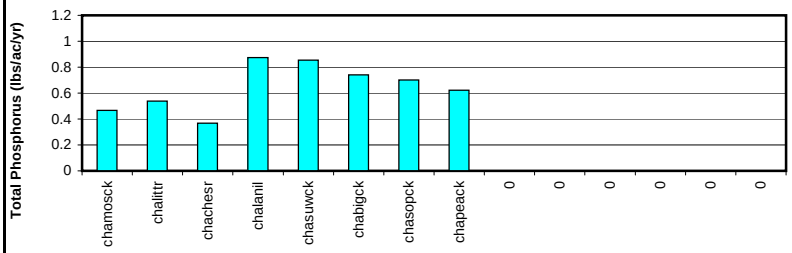


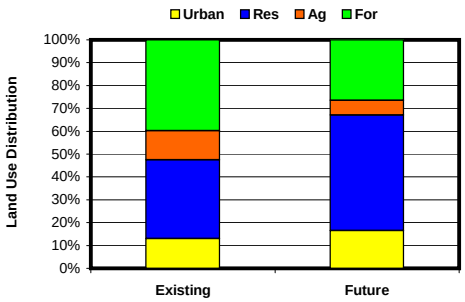
Land Use and Imperviousness



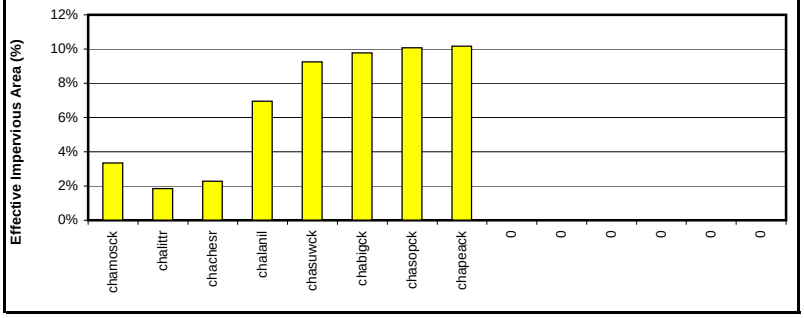
Huc10 Results for Total Phosphorus

Future 3





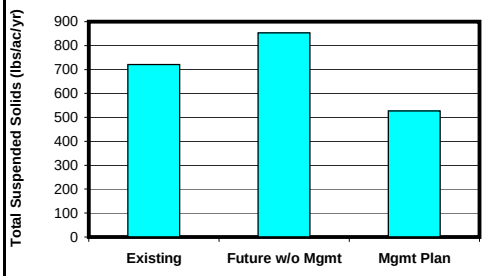
Imperviousness



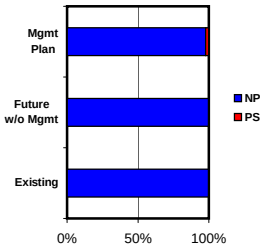
UPPER CHATTAHOOCHEE

Total Area (ac) 664,529 Choose Parameter Total Suspended Solids

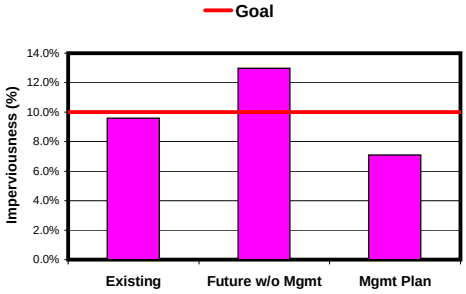
Alternatives Analysis Results for Total Suspended Solids



Source Load Distribution

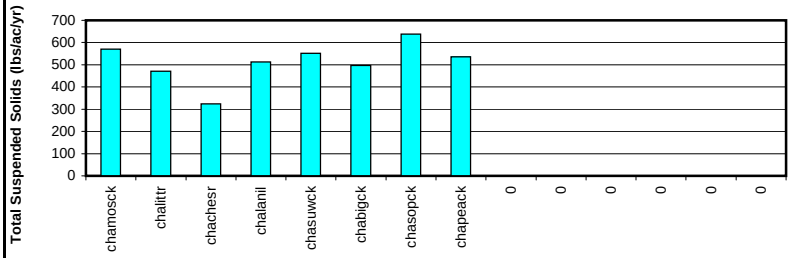


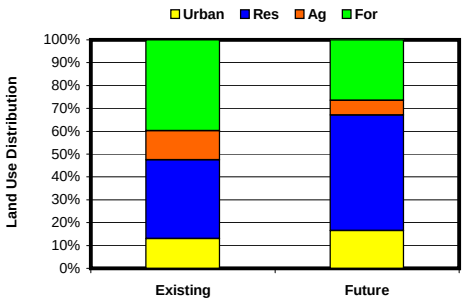
Land Use and Imperviousness



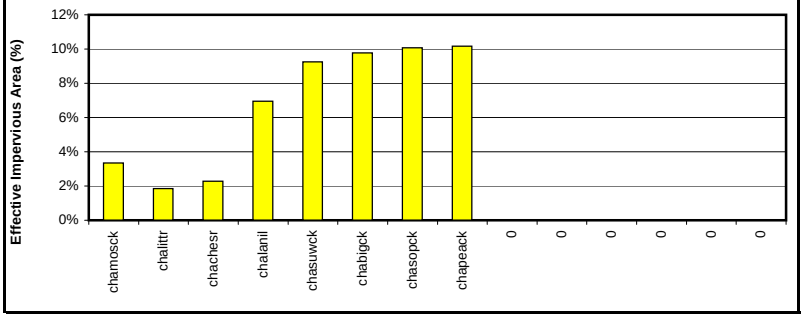
Huc10 Results for Total Suspended Solids

Future 3





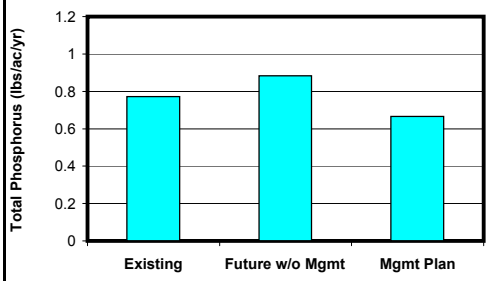
Imperviousness

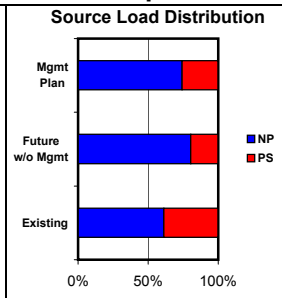


LOWER METRO CHATTAHOOCHEE

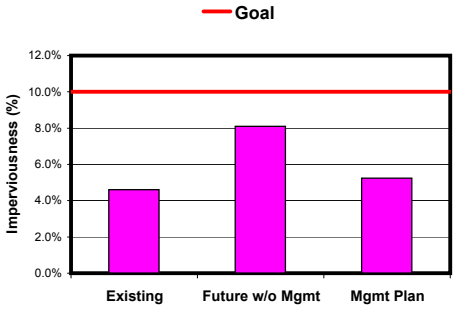
Total Area (ac) 766,365 Choose Parameter Total Phosphorus

Alternatives Analysis Results for Total Phosphorus



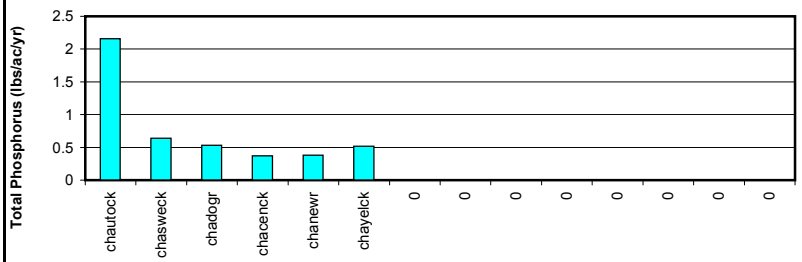


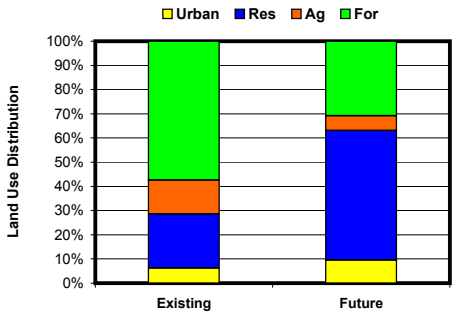
Land Use and Imperviousness



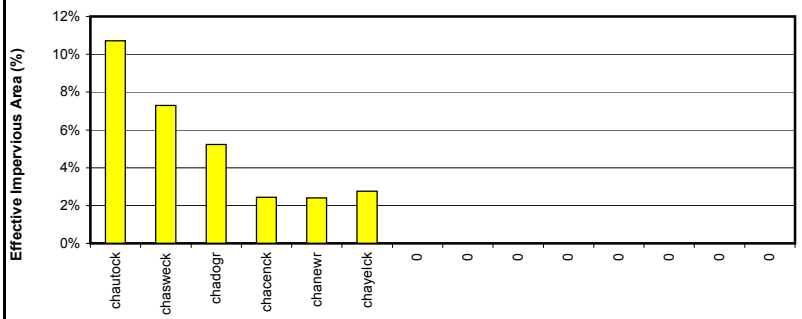
Huc10 Results for Total Phosphorus

Future 3





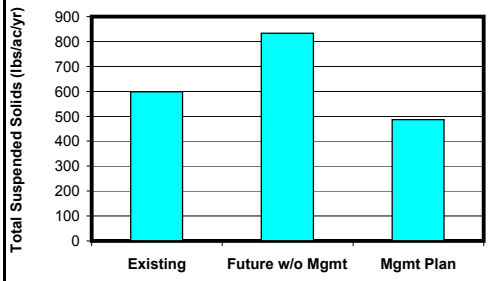
Imperviousness

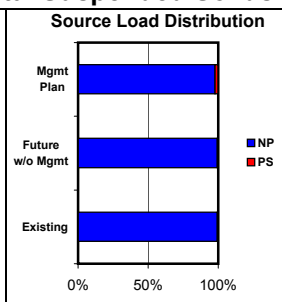


LOWER METRO CHATTAHOOCHEE

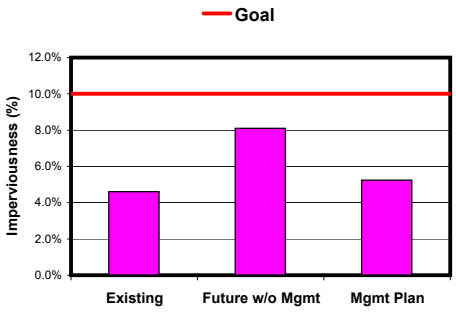
Total Area (ac) 766,365 Choose Parameter Total Suspended Solids

Alternatives Analysis Results for Total Suspended Solids



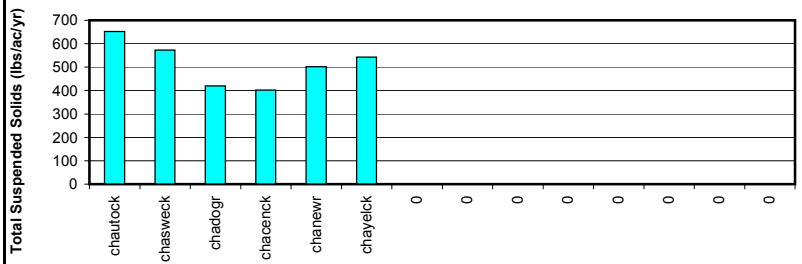


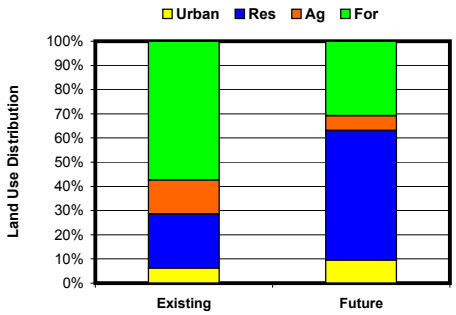
Land Use and Imperviousness



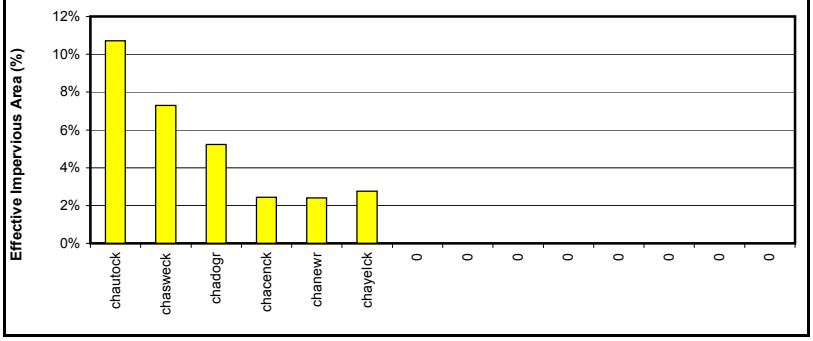
Huc10 Results for Total Suspended Solids

Future 3





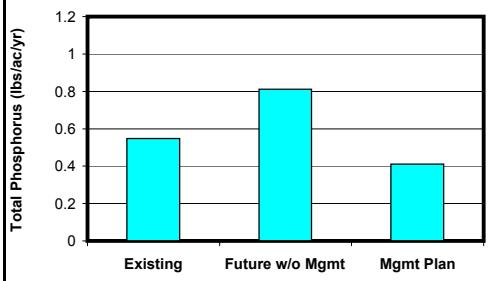
Imperviousness

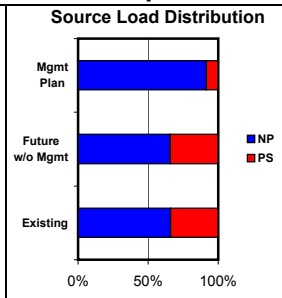


ETOWAH

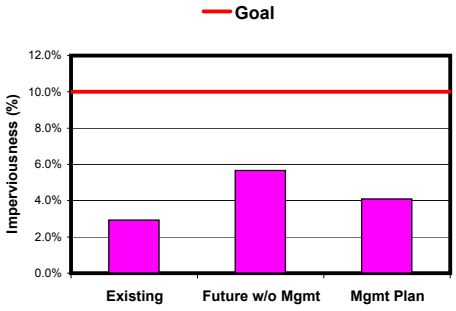
Total Area (ac) 960,903 Choose Parameter Total Phosphorus

Alternatives Analysis Results for Total Phosphorus



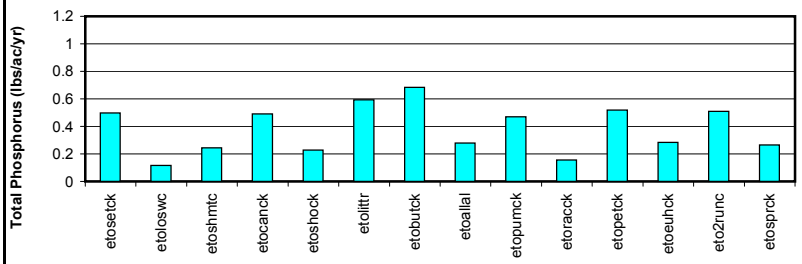


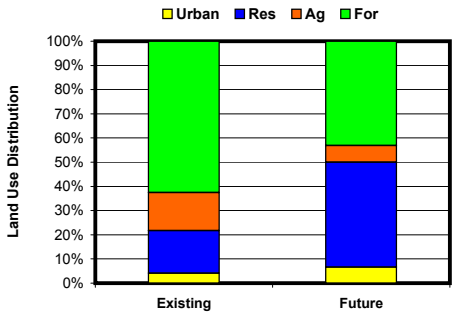
Land Use and Imperviousness



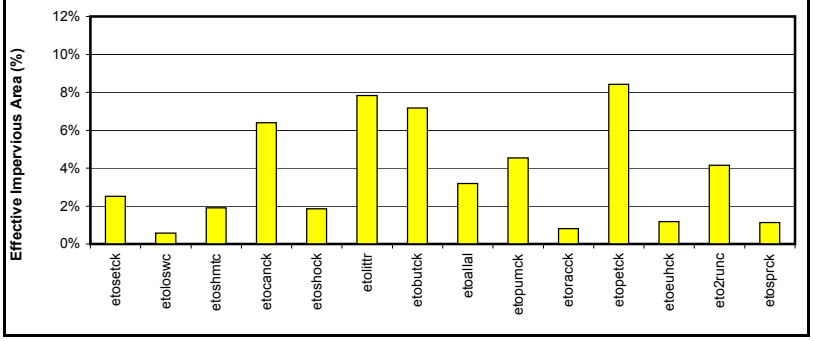
Huc10 Results for Total Phosphorus

Future 3





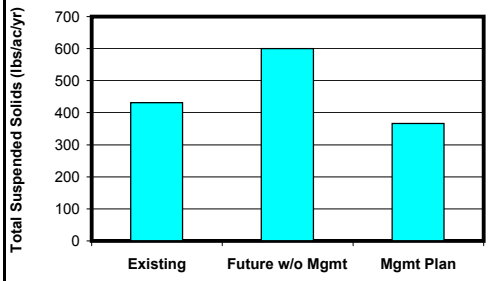
Imperviousness



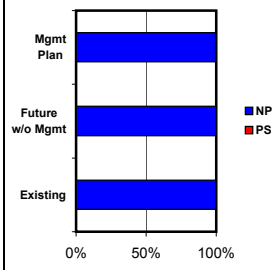
ETOWAH

Total Area (ac) 960,903 Choose Parameter Total Suspended Solids

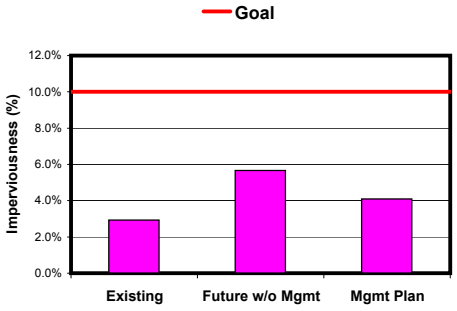
Alternatives Analysis Results for Total Suspended Solids



Source Load Distribution

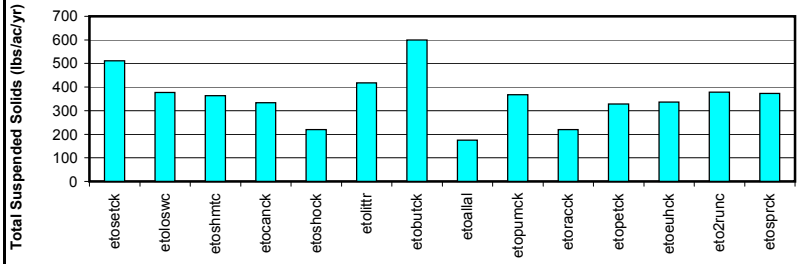


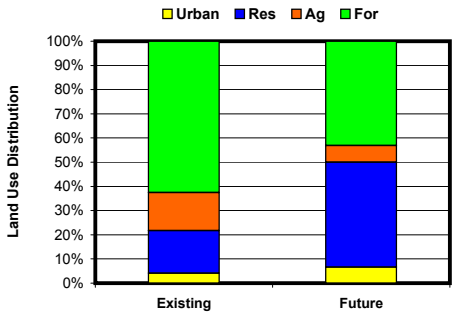
Land Use and Imperviousness



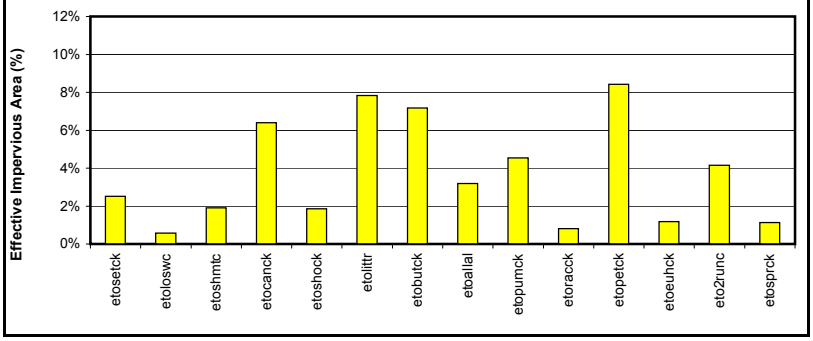
Huc10 Results for Total Suspended Solids

Future 3





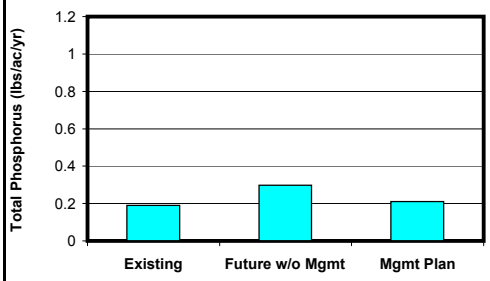
Imperviousness

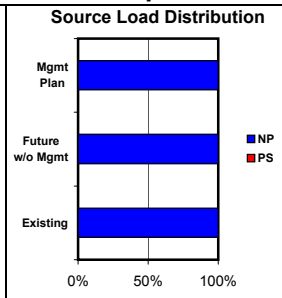


COOSAWATTEE

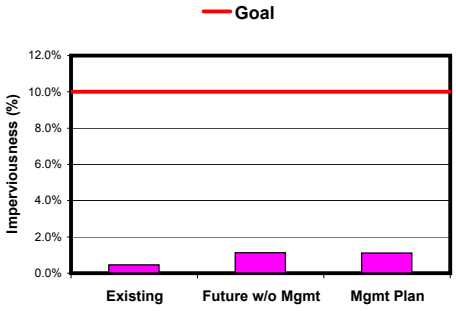
Total Area (ac) 96,502 Choose Parameter Total Phosphorus

Alternatives Analysis Results for Total Phosphorus



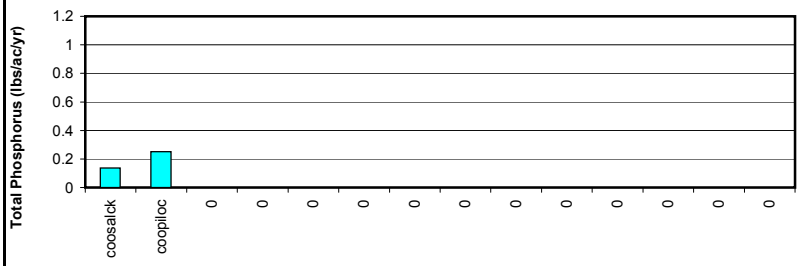


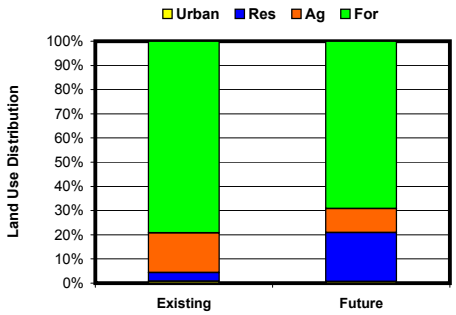
Land Use and Imperviousness



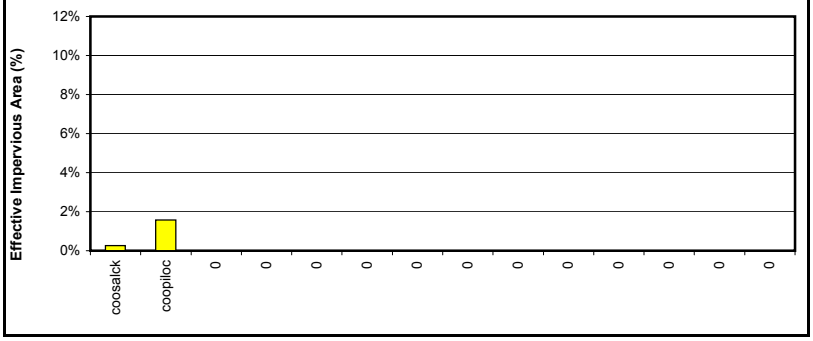
Huc10 Results for Total Phosphorus

Future 3





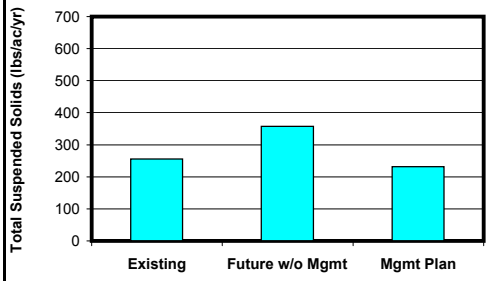
Imperviousness

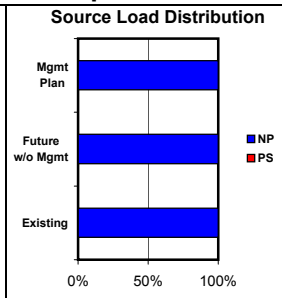


COOSAWATTEE

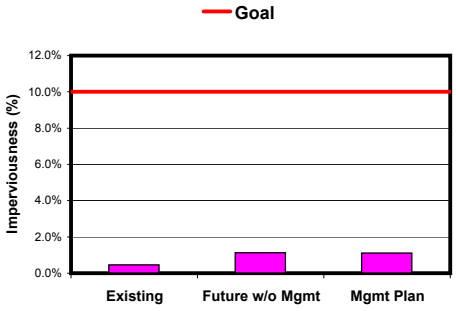
Total Area (ac) 96,502 Choose Parameter: Total Suspended Solids

Alternatives Analysis Results for Total Suspended Solids



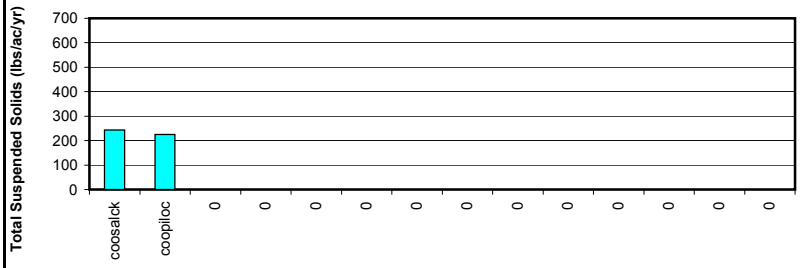


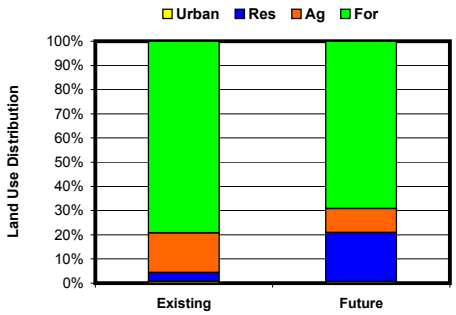
Land Use and Imperviousness



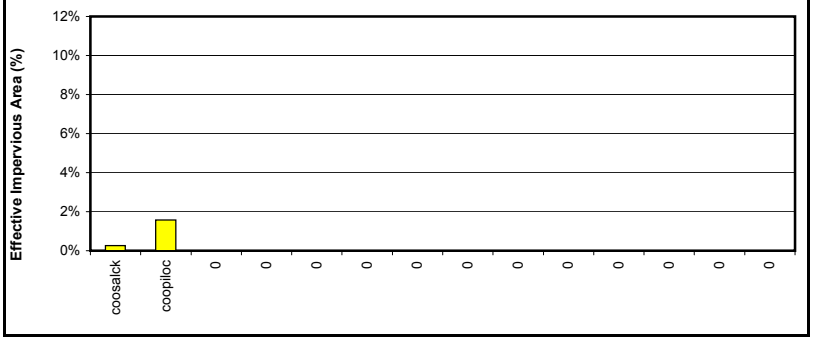
Huc10 Results for Total Suspended Solids

Future 3





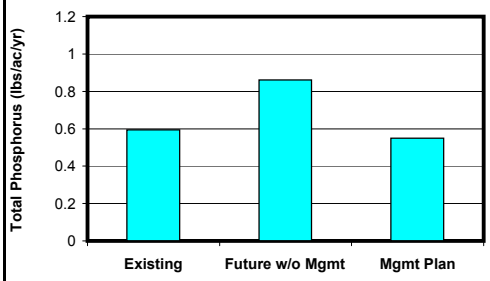
Imperviousness

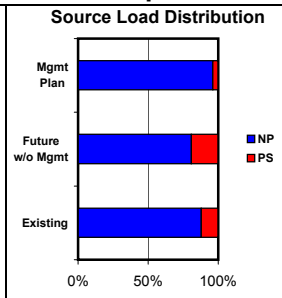


OOSTANAULA

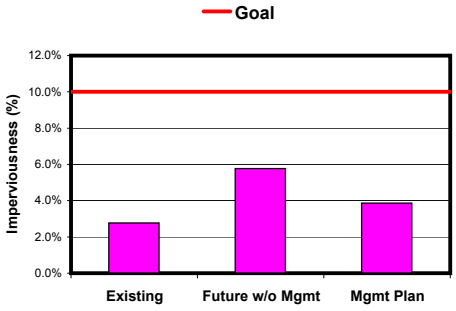
Total Area (ac) 45,203 Choose Parameter Total Phosphorus

Alternatives Analysis Results for Total Phosphorus



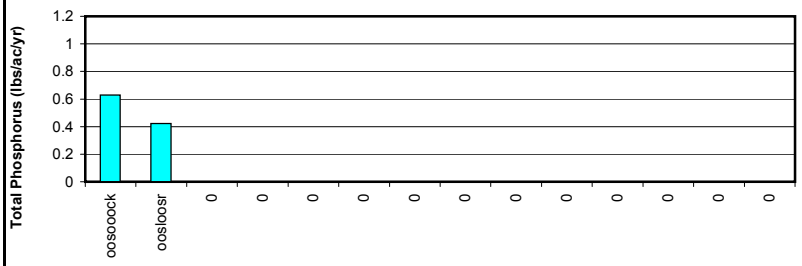


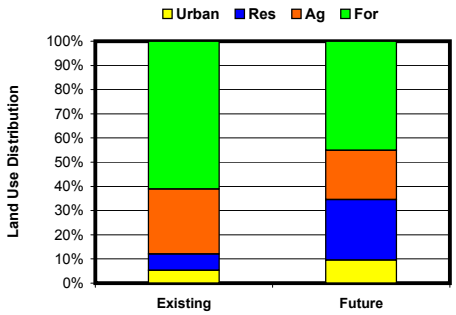
Land Use and Imperviousness



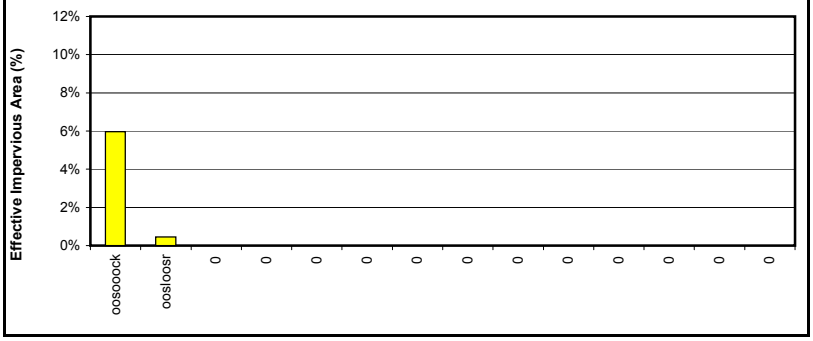
Huc10 Results for Total Phosphorus

Future 3





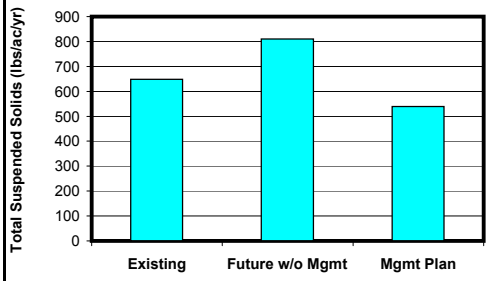
Imperviousness

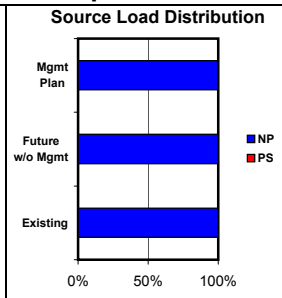


OOSTANAULA

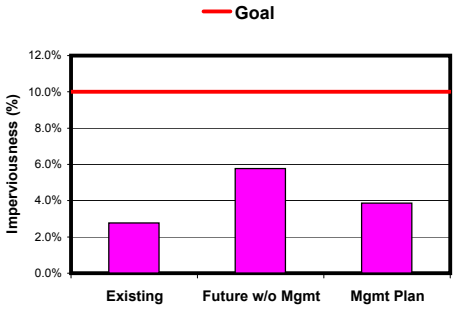
Total Area (ac) 45,203 Choose Parameter Total Suspended Solids

Alternatives Analysis Results for Total Suspended Solids



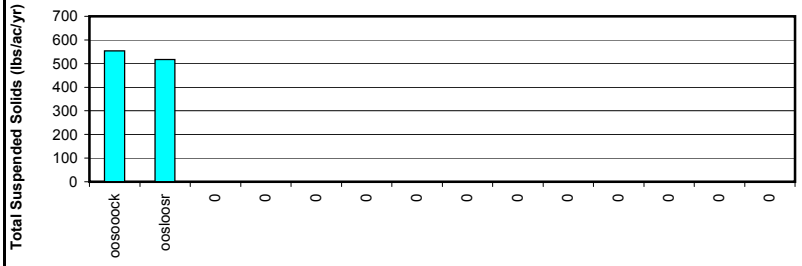


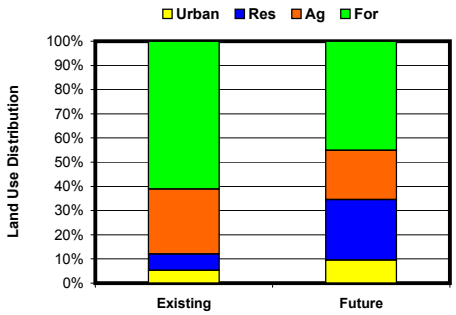
Land Use and Imperviousness



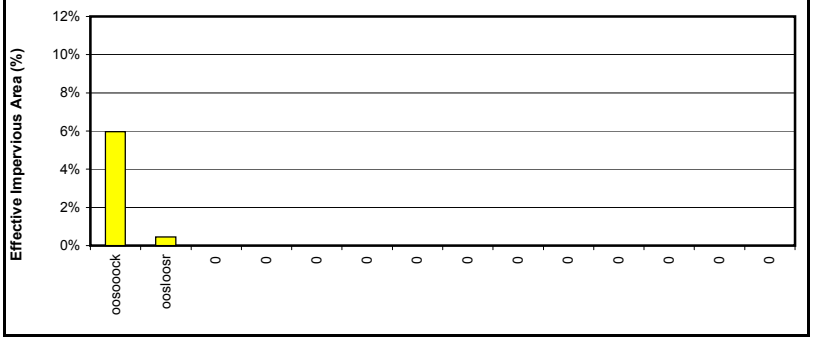
Huc10 Results for Total Suspended Solids

Future 3





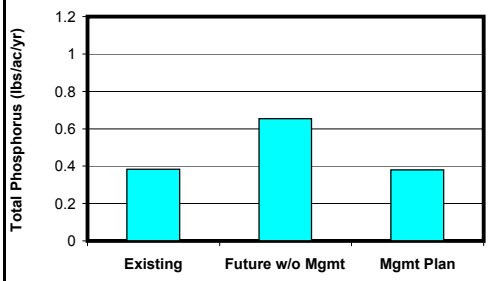
Imperviousness

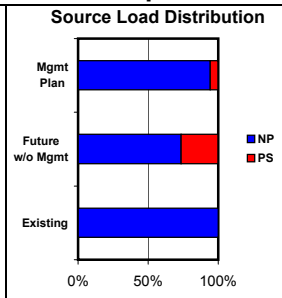


FLINT

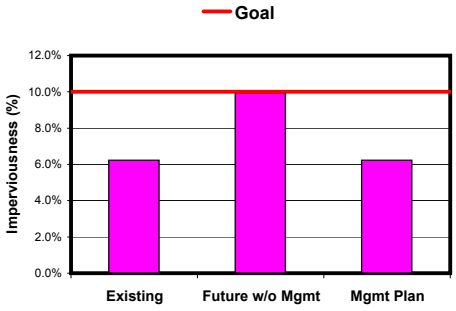
Total Area (ac) 413,561 Choose Parameter Total Phosphorus

Alternatives Analysis Results for Total Phosphorus



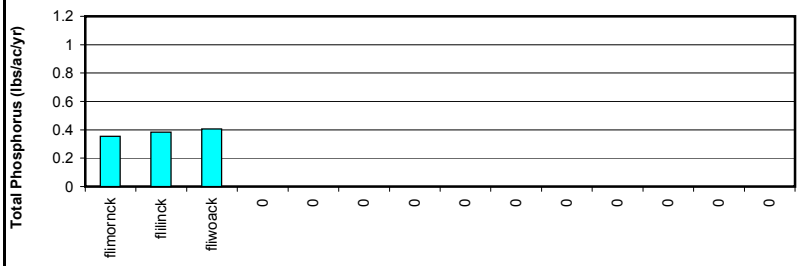


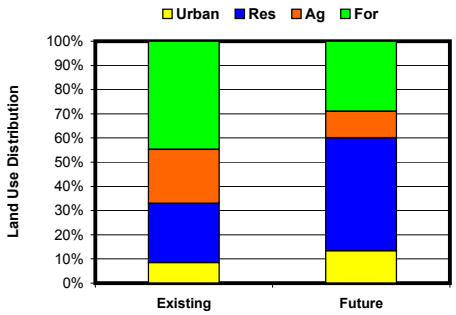
Land Use and Imperviousness



Huc10 Results for Total Phosphorus

Future 3





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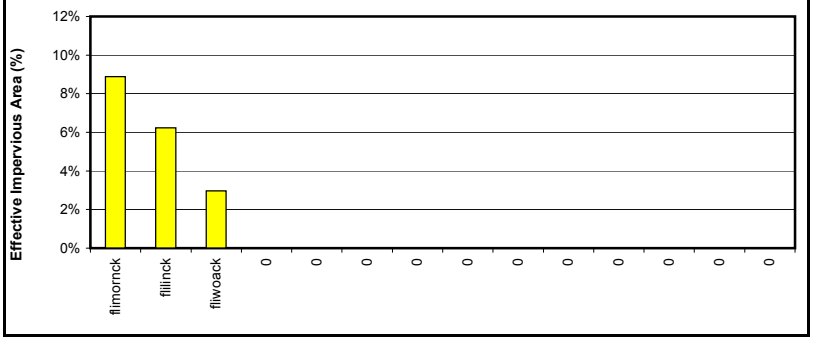

FLINT

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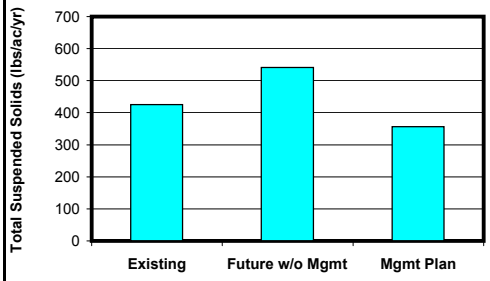

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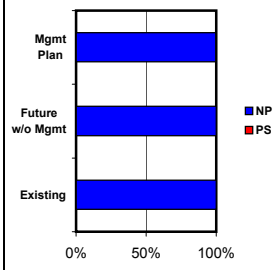
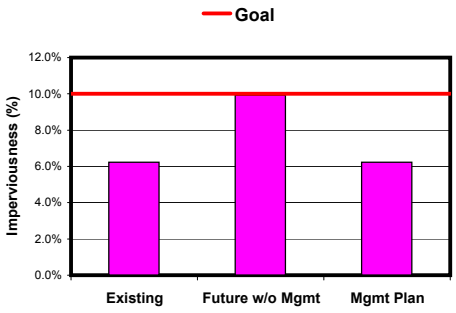
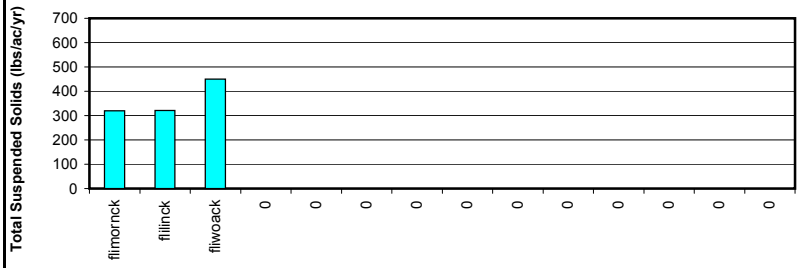


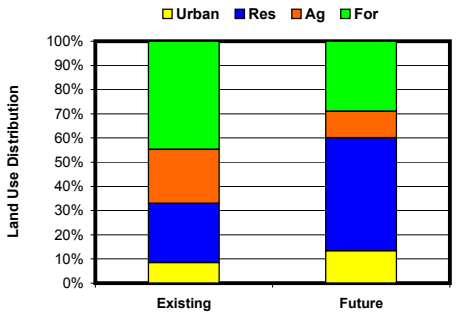
Land Use and Imperviousness



Huc10 Results for Total Suspended Solids

Future 3





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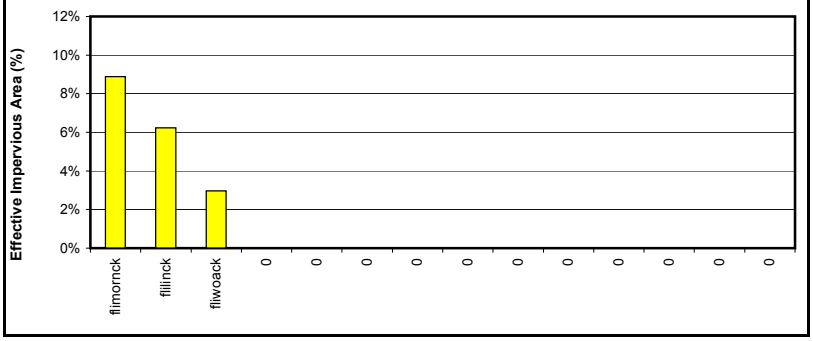

OCMULGEE

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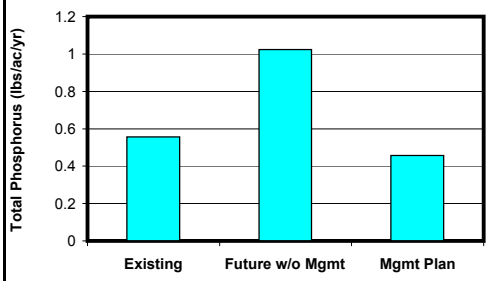
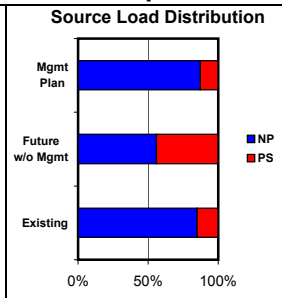
Alternatives Analysis Results for Total Phosphorus





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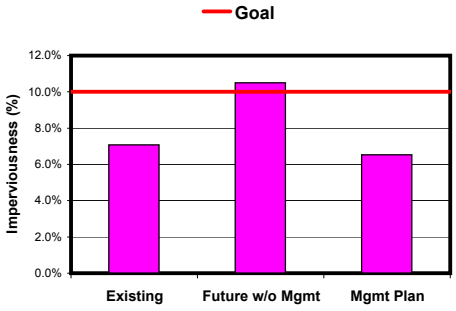

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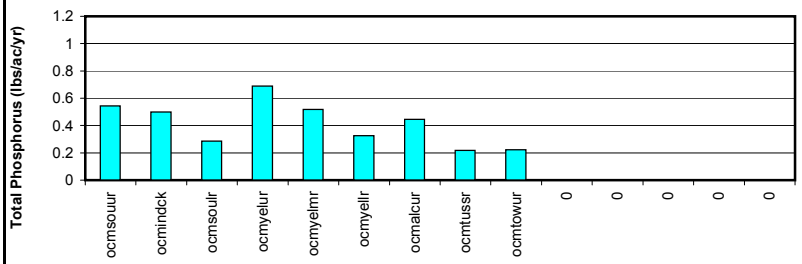

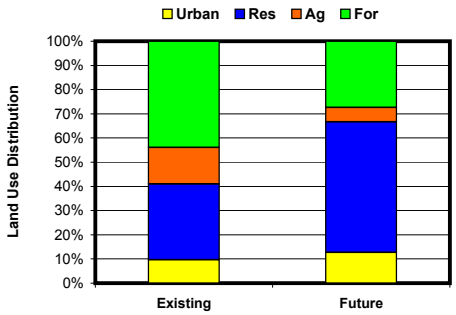

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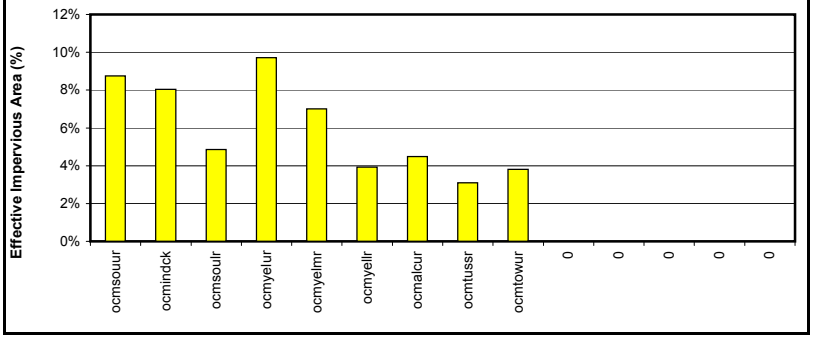

OCMULGEE

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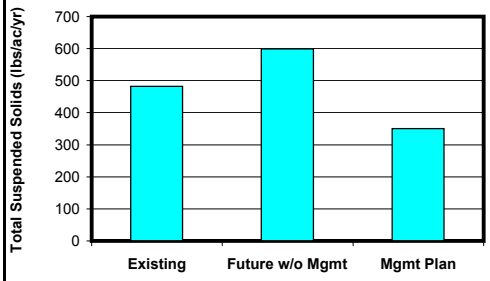
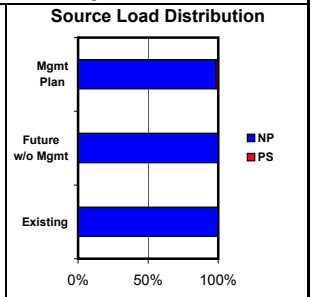
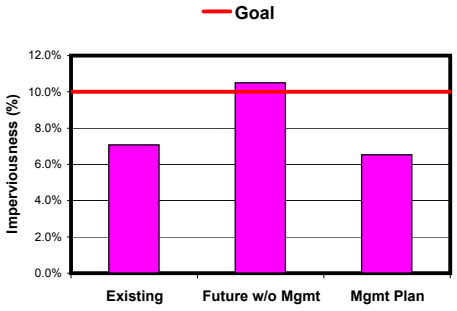




Land Use and Imperviousness



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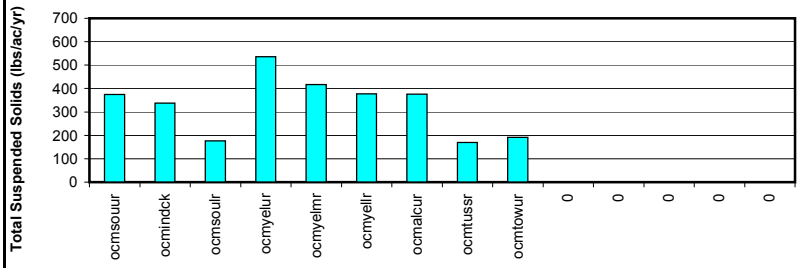

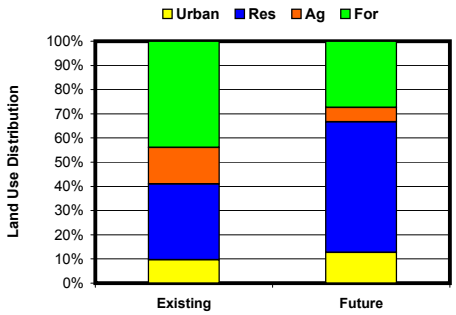

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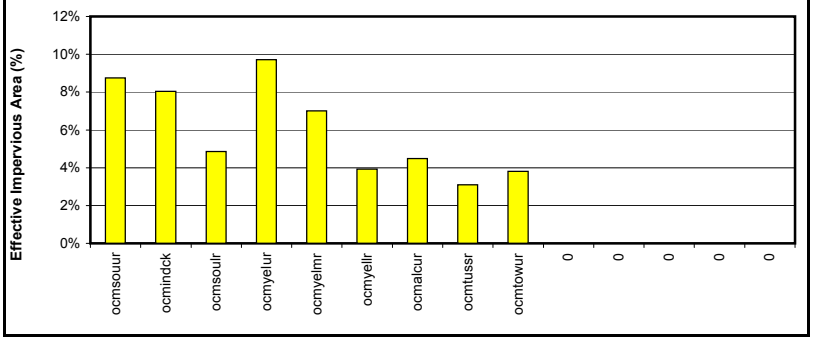

UPPER OCONEE

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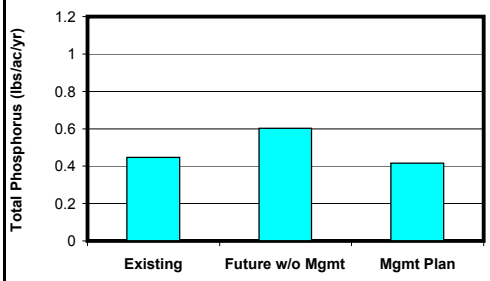
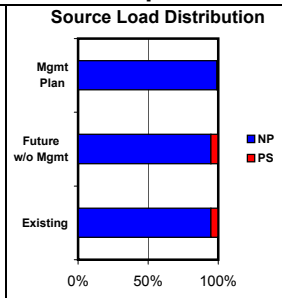
Alternatives Analysis Results for Total Phosphorus





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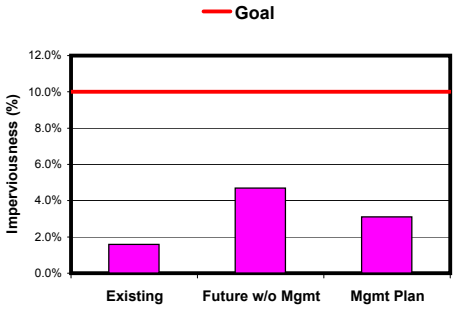

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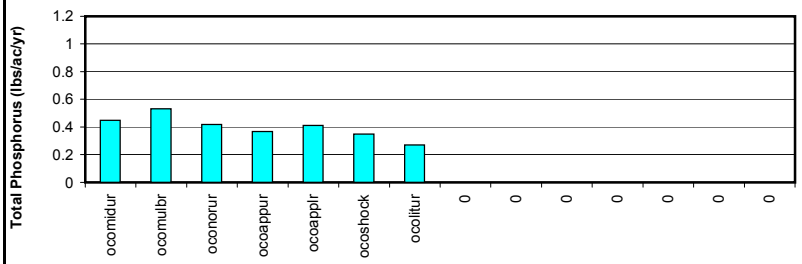

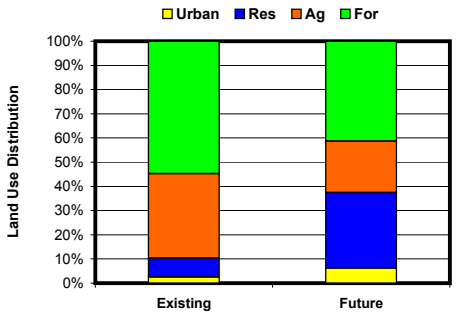

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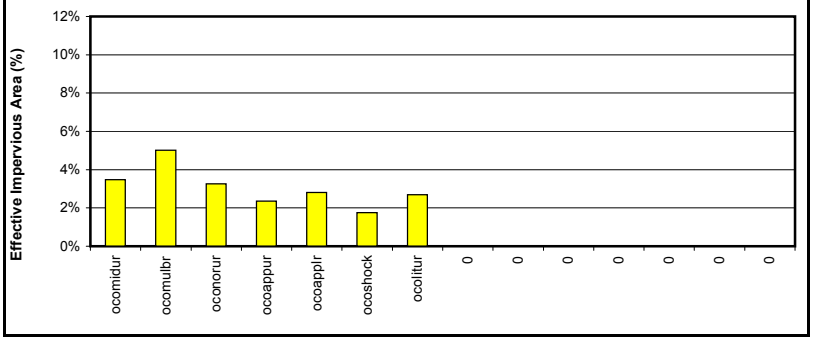

UPPER OCONEE

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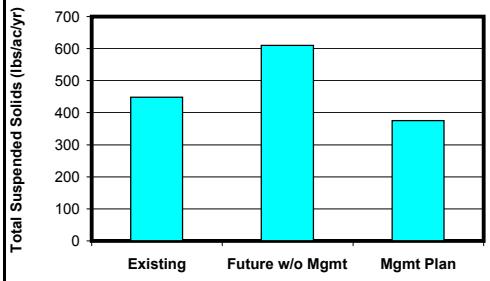
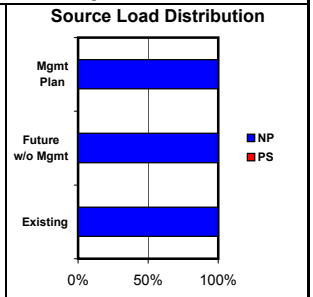
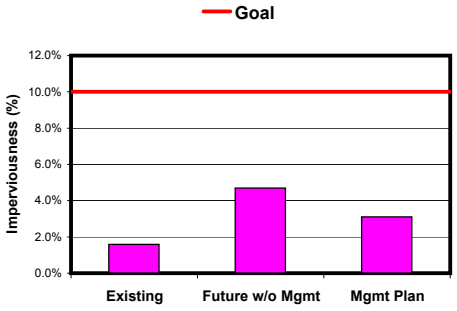




Land Use and Imperviousness



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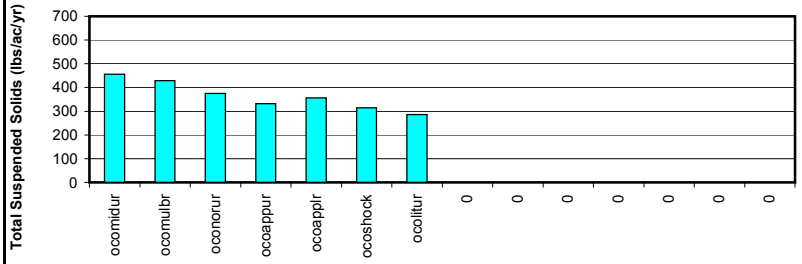
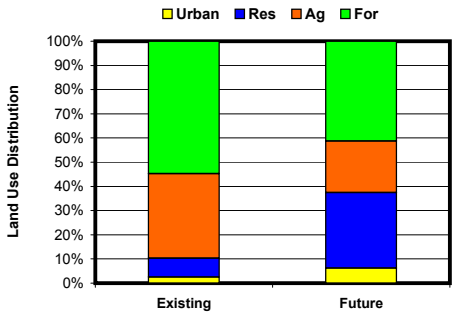
Future 3





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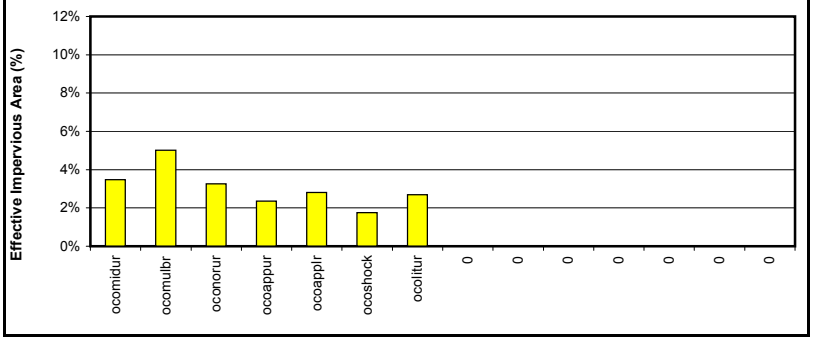

Appendix C – Model Stream Buffer Protection Ordinance

MODEL STREAM BUFFER PROTECTION ORDINANCE

Description:

This model ordinance provides a framework for local governments to develop buffer zones for streams, as well as the requirements that minimize land development within those buffers. It is the purpose of these buffer zone requirements to protect and stabilize stream banks, protect water quality and preserve aquatic and riparian habitat.

Note: Italicized text with this symbol ➲ should be interpreted as comments, instructions, or information to assist the local government in tailoring the ordinance. This text would not appear in a final adopted ordinance.

Table of Contents

Section 1. Title

This ordinance shall be known as the "**(Local Jurisdiction)** Stream Buffer Protection Ordinance."

Section 2. Findings and Purposes

2.1. Findings

Whereas, the **(name of governing body)** of **(local jurisdiction)** finds that buffers adjacent to streams provide numerous benefits including:

(1) Protecting, restoring and maintaining the chemical, physical and biological integrity of streams and their water resources

(2) Removing pollutants delivered in urban stormwater

(3) Reducing erosion and controlling sedimentation

(4) Protecting and stabilizing stream banks

(5) Providing for infiltration of stormwater runoff

(6) Maintaining base flow of streams

(7) Contributing organic matter that is a source of food and energy for the aquatic ecosystem

(8) Providing tree canopy to shade streams and promote desirable aquatic habitat

(9) Providing riparian wildlife habitat

(10) Furnishing scenic value and recreational opportunity

(11) Providing opportunities for the protection and restoration of greenspace

2.2. Purposes

It is the purpose of this Ordinance is to protect the public health, safety, environment and general welfare; to minimize public and private losses due to erosion, siltation and water pollution; and to maintain stream water quality by provisions designed to:

(1) Create buffer zones along the streams of **(local jurisdiction)** for the protection of water resources; and,

(2) Minimize land development within such buffers by establishing buffer zone requirements and by requiring authorization for any such activities.

Section 3. Definitions

"Buffer" means, with respect to a stream, a natural or enhanced vegetated area (established by Section 5.1.1 below), lying adjacent to the stream.
"Impervious Cover" means any manmade paved, hardened or structural surface regardless of material. Impervious cover includes but is not limited to rooftops, buildings, streets, roads, decks, swimming pools and any concrete or asphalt.
"Land Development" means any land change, including but not limited to clearing, grubbing, stripping, removal of vegetation, dredging, grading, excavating, transporting and filling of land, construction, paving and any other installation of impervious cover.
"Land Development Activity" means those actions or activities which comprise, facilitate or result in land development.
"Land Disturbance" means any land or vegetation change, including, but not limited to, clearing, grubbing, stripping, removal of vegetation, dredging, grading, excavating, transporting and filling of land, that do not involve construction, paving or any other installation of impervious cover.
"Land Disturbance Activity" means those actions or activities which comprise, facilitate or result in land disturbance.
"Floodplain" means any land area susceptible to flooding, which would have at least a one percent probability of flooding occurrence in any calendar year based on the basin being fully developed as shown on the current land use plan; i.e., the regulatory flood.
"Parcel" means any plot, lot or acreage shown as a unit on the latest county tax assessment records.
"Permit" means the permit issued by the **(local permitting authority)** required for undertaking any land development activity
"Person" means any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, city, county or other political subdivision of the State, any interstate body or any other legal entity.
"Protection Area, or Stream Protection Area" means, with respect to a stream, the combined areas of all required buffers and setbacks applicable to such stream.
"Riparian" means belonging or related to the bank of a river, stream, lake, pond or impoundment.
"Setback" means, with respect to a stream, the area established by Section 5.1.2 extending beyond any buffer applicable to the stream.
"Stream" means any stream, beginning at:

1. The location of a spring, seep, or groundwater outflow that sustains streamflow; or
2. A point in the stream channel with a drainage area of 25 acres or more; or
3. Where evidence indicates the presence of a stream in a drainage area of other than 25 acres, the **(local permitting authority)** may require field studies to verify the existence of a stream.

➲*As a long-term goal, the local jurisdiction can also map its perennial and intermittent streams through field work, prioritizing basins and developing information as time, staffing and budgets permit.*

"Stream Bank" means the sloping land that contains the stream channel and the normal flows of the stream.

"Stream Channel" means the portion of a watercourse that contains the base flow of the stream.

"Watershed" means the land area that drains into a particular stream.

Section 4. Applicability

This ordinance shall apply to all land development activity on property containing a stream protection area as defined in Section 3 of this ordinance. These requirements are in addition to, and do not replace or supersede, any other applicable buffer requirements established under state law and approval or exemption from these requirements do not constitute approval or exemption from buffer requirements established under state law or from other applicable local, state or federal regulations.

4.1. Grandfather Provisions

This ordinance shall not apply to the following activities:

(1) Work consisting of the repair or maintenance of any lawful use of land that is zoned and approved for such use on or before the effective date of this ordinance.

(2) Existing development and on-going land disturbance activities including but not limited to existing agriculture, silviculture, landscaping, gardening and lawn maintenance, except that new development or land disturbance activities on such properties will be subject to all applicable buffer requirements.

(3) Any land development activity that is under construction, fully approved for development, scheduled for permit approval or has been submitted for approval as of the effective date of this ordinance.

(4) Land development activity that has not been submitted for approval, but that is part of a larger master development plan, such as for an office park or other phased development that has been previously approved within two years of the effective date of this ordinance.

4.2. Exemptions

The following specific activities are exempt from this ordinance. Exemption of these activities does not constitute an exemption for any other activity proposed on a property.

(1) Activities for the purpose of building one of the following:
- a stream crossing by a driveway, transportation route or utility line;
- public water supply intake or public wastewater outfall structures;

- intrusions necessary to provide access to a property;
- public access facilities that must be on the water including boat ramps, docks, foot trails leading directly to the river, fishing platforms and overlooks;
- unpaved foot trails and paths;
- activities to restore and enhance stream bank stability, vegetation, water quality and/or aquatic habitat, so long as native vegetation and bioengineering techniques are used.

(2) Public sewer line easements paralleling the creek, except that all easements (permanent and construction) and land disturbance should be at least 25 feet from the top of the bank. This includes such impervious cover as is necessary for the operation and maintenance of the utility, including but not limited to manholes, vents and valve structures. This exemption shall not be construed as allowing the construction of roads, bike paths or other transportation routes in such easements, regardless of paving material, except for access for the uses specifically cited in Item 4.2.(1), above.

(3) Land development activities within a right-of-way existing at the time this ordinance takes effect or approved under the terms of this ordinance.

(4) Within an easement of any utility existing at the time this ordinance takes effect or approved under the terms of this ordinance, land disturbance activities and such impervious cover as is necessary for the operation and maintenance of the utility, including but not limited to manholes, vents and valve structures.

(5) Emergency work necessary to preserve life or property. However, when emergency work is performed under this section, the person performing it shall report such work to the (review and permitting authority) on the next business day after commencement of the work. Within 10 days thereafter, the person shall apply for a permit and perform such work within such time period as may be determined by the (review and permitting authority) to be reasonably necessary to correct any impairment such emergency work may have caused to the water conveyance capacity, stability or water quality of the protection area.

(6) Forestry and silviculture activities on land that is zoned for forestry, silvicultural or agricultural uses and are not incidental to other land development activity. If such activity results in land disturbance in the buffer that would otherwise be prohibited, then no other land disturbing activity other than normal forest management practices will be allowed on the entire property for three years after the end of the activities that intruded on the buffer.

➲ *Unless specifically provided for in a State law, local governments generally do not have permitting or enforcement authority over State and Federal departments, agencies and authorities. Local governments need to address these issues in the context of their overall permitting and enforcement regulations and provide for reporting observed*

problems, first to the agency performing the activity, then, if no corrective action results, to Georgia EPD.

After the effective date of this ordinance, it shall apply to new subdividing and platting activities.

Any land development activity within a buffer established hereunder or any impervious cover within a setback established hereunder is prohibited unless a variance is granted pursuant to Section 5.2 below.

Section 5. Land Development Requirements

5.1. Buffer and Setback Requirements

All land development activity subject to this ordinance shall meet the following requirements:

(1) An undisturbed natural vegetative buffer shall be maintained for 50 feet, measured horizontally, on both banks (as applicable) of the stream as measured from the top of the stream bank.

➲*The top of the bank is often a clearer landmark than the edge of the water or the end of vegetation, particularly on intermittent streams. The land forming the bank is also considered part of the buffer for purposes of this ordinance.*

(2) An additional setback shall be maintained for 25 feet, measured horizontally, beyond the undisturbed natural vegetative buffer, in which all impervious cover shall be prohibited. Grading, filling and earthmoving shall be minimized within the setback.

➲*Any buffer and setback widths that may be listed are intended as minimums. Local governments are encouraged to adopt wider buffers and setbacks as necessary. A local government has many options in developing wider buffers. One method would be to increase the width as the stream drainage basin increases in size, as Cobb County does. Another method is to offer incentives for voluntary wider buffers. For example, Clayton County allows developers to offset proposed land development with deeper buffers as an alternative to using other stormwater controls.*

(3) No septic tanks or septic tank drain fields shall be permitted within the buffer or the setback.

5.2. Variance Procedures

Variances from the above buffer and setback requirements may be granted in accordance with the following provisions:

(1) Where a parcel was platted prior to the effective date of this ordinance, and its shape, topography or other existing physical condition prevents land development consistent with this ordinance, and the **(review and permitting authority)** finds

and determines that the requirements of this ordinance prohibit the otherwise lawful use of the property by the owner, the **(appeals board)** of **(local jurisdiction)** may grant a variance from the buffer and setback requirements hereunder, provided such variance require mitigation measures to offset the effects of any proposed land development on the parcel.

(2) Except as provided above, the **(appeals board)** of **(local jurisdiction)** shall grant no variance from any provision of this ordinance without first conducting a public hearing on the application for variance and authorizing the granting of the variance by an affirmative vote of the **(appeals board)**. The **(local jurisdiction)** shall give public notice of each such public hearing in a newspaper of general circulation within **(local jurisdiction)**. The **(local jurisdiction)** shall require that the applicant post a sign giving notice of the proposed variance and the public hearing. The sign shall be of a size and posted in such a location on the property as to be clearly visible from the primary adjacent road right-of-way.

Variances will be considered only in the following cases:

a. When a property's shape, topography or other physical conditions existing at the time of the adoption of this ordinance prevents land development unless a buffer variance is granted.
b. Unusual circumstances when strict adherence to the minimal buffer requirements in the ordinance would create an extreme hardship.

Variances will not be considered when, following adoption of this ordinance, actions of any property owner of a given property have created conditions of a hardship on that property.

(3) At a minimum, a variance request shall include the following information:

a. A site map that includes locations of all streams, wetlands, floodplain boundaries and other natural features, as determined by field survey;
b. A description of the shape, size, topography, slope, soils, vegetation and other physical characteristics of the property;
c. A detailed site plan that shows the locations of all existing and proposed structures and other impervious cover, the limits of all existing and proposed land disturbance, both inside and outside the buffer and setback. The exact area of the buffer to be affected shall be accurately and clearly indicated;
d. Documentation of unusual hardship should the buffer be maintained;
e. At least one alternative plan, which does not include a buffer or setback intrusion, or an explanation of why such a site plan is not possible;
f. A calculation of the total area and length of the proposed intrusion;
g. A stormwater management site plan, if applicable; and,
h. Proposed mitigation, if any, for the intrusion. If no mitigation is proposed, the request must include an explanation of why none is being proposed.

(4) The following factors will be considered in determining whether to issue a variance:
   a. The shape, size, topography, slope, soils, vegetation and other physical characteristics of the property;
   b. The locations of all streams on the property, including along property boundaries;
   c. The location and extent of the proposed buffer or setback intrusion; and,
   d. Whether alternative designs are possible which require less intrusion or no intrusion;
   e. The long-term and construction water-quality impacts of the proposed variance;
   f. Whether issuance of the variance is at least as protective of natural resources and the environment.

Section 6. Compatibility with Other Buffer Regulations and Requirements

This ordinance is not intended to interfere with, abrogate or annul any other ordinance, rule or regulation, statute or other provision of law. The requirements of this ordinance should be considered minimum requirements, and where any provision of this ordinance imposes restrictions different from those imposed by any other ordinance, rule, regulation or other provision of law, whichever provisions are more restrictive or impose higher protective standards for human health or the environment shall be considered to take precedence.

➲*Examples of existing legislation and regulations include:*

Metropolitan River Protection Act and Chattahoochee Corridor Plan

Requires a 50-foot undisturbed vegetative buffer and 150-foot impervious surface setback on the Chattahoochee and its impoundments and a 35-foot undisturbed vegetative buffer (all measured from the edge of the water) on perennial tributary streams in a Corridor extending 2000 feet from either bank of the river and its impoundments. The Corridor extends from Buford Dam to the downstream limits of the Atlanta region (Douglas and Fulton Counties). Streams in the basin of the Corridor are required to be protected by buffers, but no required width is specified. (Georgia Code 12-5-440 et seq.)

DNR Part 5 Criteria for Small (under 100 square miles) Water Supply Watersheds

Authorized under Part V of the Georgia Planning Act of 1989, these criteria require 100-foot undisturbed buffers and 150-foot setbacks on all perennial streams within 7 miles upstream of a public water supply reservoir or public water supply intake. Beyond 7 miles, the required buffer is 50 feet and the required setback is 75 feet. Equivalent protection measures can be adopted with approval from Georgia DCA and DNR.

DNR Part 5 Criteria for River Protection

Authorized under the 1991 Mountains and River Corridors Protection Act of 1991, these criteria require a 100-foot buffer along rivers with average annual flows of greater than 400 cfs (excepting the portion of the Chattahoochee referenced above). The buffer is measured from the top of the stream bank.

These examples are partial descriptions of more extensive regulations as of July, 2002. They represent only three of the stricter regulations that already exist.

➲ *While the requirements of this ordinance are intended to apply to all streams in (local jurisdiction), special conditions may exist that require greater protection. Nothing in this ordinance should be construed as preventing the establishment of wider and/or more restrictive buffers and setbacks as required under any other existing or future legislation. In addition, nothing in this ordinance should be construed as preventing the establishment of wider buffers for purposes of protecting greenspace, preserving habitat or other goals that may not be specifically mandated by legislation.*

Section 7. Additional Information Requirements for Development on Buffer Zone Properties

Any permit applications for property requiring buffers and setbacks hereunder must include the following:

(1) A site plan showing:
   a. The location of all streams on the property;
   b. Limits of required stream buffers and setbacks on the property;
   c. Buffer zone topography with contour lines at no greater than five (5)-foot contour intervals;
   d. Delineation of forested and open areas in the buffer zone; and,
   e. Detailed plans of all proposed land development in the buffer and of all proposed impervious cover within the setback;

(2) A description of all proposed land development within the buffer and setback; and,

(3) Any other documentation that the (review and permitting authority) may reasonably deem necessary for review of the application and to insure that the buffer zone ordinance is addressed in the approval process.

All buffer and setback areas must be recorded on the final plat of the property following plan approval.

Section 8. Responsibility

Neither the issuance of a development permit nor compliance with the conditions thereof, nor with the provisions of this ordinance shall relieve any person from any responsibility otherwise imposed by law for damage to persons or property; nor shall the issuance of

any permit hereunder serve to impose any liability upon **(local jurisdiction)**, its officers or employees, for injury or damage to persons or property.

Section 9. Inspection

The **(review and permitting authority)** may cause inspections of the work in the buffer or setback to be made periodically during the course thereof and shall make a final inspection following completion of the work. The permittee shall assist the **(review and permitting authority)** in making such inspections. The **(local jurisdiction)** shall have the authority to conduct such investigations as it may reasonably deem necessary to carry out its duties as prescribed in this ordinance, and for this purpose to enter at reasonable time upon any property, public or private, for the purpose of investigating and inspecting the sites of any land development activities within the protection area.

No person shall refuse entry or access to any authorized representative or agent who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper or interfere with any such representative while in the process of carrying out official duties.

Section 10. Violations, Enforcement and Penalties

Any action or inaction which violates the provisions of this ordinance or the requirements of an approved site plan or permit may be subject to the enforcement actions outlined in this Section. Any such action or inaction which is continuous with respect to time is deemed to be a public nuisance and may be abated by injunctive or other equitable relief. The imposition of any of the penalties described below shall not prevent such equitable relief.

10.1. Notice of Violation

If the **(review and permitting authority)** determines that an applicant or other responsible person has failed to comply with the terms and conditions of a permit, an approved site plan or the provisions of this ordinance, it shall issue a written notice of violation to such applicant or other responsible person. Where a person is engaged in activity covered by this ordinance without having first secured the appropriate permit therefor, the notice of violation shall be served on the owner or the responsible person in charge of the activity being conducted on the site.

The notice of violation shall contain:

(1) The name and address of the owner or the applicant or the responsible person;

(2) The address or other description of the site upon which the violation is occurring;

(3) A statement specifying the nature of the violation;

(4) A description of the remedial measures necessary to bring the action or inaction into compliance with the permit, the approved site plan or this ordinance and the date for the completion of such remedial action;

(5) A statement of the penalty or penalties that may be assessed against the person to whom the notice of violation is directed; and,

(6) A statement that the determination of violation may be appealed to the **(review and permitting authority)** by filing a written notice of appeal within thirty (30) days after the notice of violation (except that in the event the violation constitutes an immediate danger to public health or public safety, 24 hours notice shall be sufficient).

10.2. Penalties

In the event the remedial measures described in the notice of violation have not been completed by the date set forth for such completion in the notice of violation, any one or more of the following actions or penalties may be taken or assessed against the person to whom the notice of violation was directed. Before taking any of the following actions or imposing any of the following penalties, the **(review and permitting authority)** shall first notify the applicant or other responsible person in writing of its intended action, and shall provide a reasonable opportunity, of not less than ten days (except that in the event the violation constitutes an immediate danger to public health or public safety, 24 hours notice shall be sufficient) to cure such violation. In the event the applicant or other responsible person fails to cure such violation after such notice and cure period, the **(review and permitting authority)** may take any one or more of the following actions or impose any one or more of the following penalties.

(1) **Stop Work Order** - The **(review and permitting authority)** may issue a stop work order which shall be served on the applicant or other responsible person. The stop work order shall remain in effect until the applicant or other responsible person has taken the remedial measures set forth in the notice of violation or has otherwise cured the violation or violations described therein, provided the stop work order may be withdrawn or modified to enable the applicant or other responsible person to take necessary remedial measures to cure such violation or violations.

(2) **Withhold Certificate of Occupancy -** The **(review and permitting authority)** may refuse to issue a certificate of occupancy for the building or other improvements constructed or being constructed on the site until the applicant or other responsible person has taken the remedial measures set forth in the notice of violation or has otherwise cured the violations described therein.

(3) **Suspension, Revocation or Modification of Permit -** The **(review and permitting authority)** may suspend, revoke or modify the permit authorizing the land development project. A suspended, revoked or modified permit may be reinstated after the applicant or other responsible person has taken the remedial measures set forth in the notice of violation or has otherwise cured the violations described therein, provided such permit may be reinstated (upon such conditions

as the **(review and permitting authority)** may deem necessary) to enable the applicant or other responsible person to take the necessary remedial measures to cure such violations.

(4) **Civil Penalties -** In the event the applicant or other responsible person fails to take the remedial measures set forth in the notice of violation or otherwise fails to cure the violations described therein within ten days (or such greater period as the **(review and permitting authority)** shall deem appropriate) (except that in the event the violation constitutes an immediate danger to public health or public safety, 24 hours notice shall be sufficient) after the **(review and permitting authority)** has taken one or more of the actions described above, the **(review and permitting authority)** may impose a penalty not to exceed $1,000 (depending on the severity of the violation) for each day the violation remains unremedied after receipt of the notice of violation.

(5) **Criminal Penalties -** For intentional and flagrant violations of this ordinance, the **(review and permitting authority)** may issue a citation to the applicant or other responsible person, requiring such person to appear in **(appropriate municipal, magistrate or recorders)** court to answer charges for such violation. Upon conviction, such person shall be punished by a fine not to exceed $1,000 or imprisonment for 60 days or both. Each act of violation and each day upon which any violation shall occur shall constitute a separate offense.

Section 11. Administrative Appeal and Judicial Review

11.1 Administrative Appeal

Any person aggrieved by a decision or order of **(review and permitting authority)**, may appeal in writing within ___ days after the issuance of such decision or order to the **(designated official)** of **(local jurisdiction)** and shall be entitled to a hearing before the **(designated appeals body)** of **(local jurisdiction)** within __ days of receipt of the written appeal.

11.2. Judicial Review

Any person aggrieved by a decision or order of **(review and permitting authority)**, after exhausting all administrative remedies, shall have the right to appeal de novo to the __ court of **(appropriate jurisdiction)**.

Section 12. Severability

If any article, section, subsection, paragraph, clause, phrase or provision of this ordinance shall be adjudged invalid or held unconstitutional, such decision shall not affect or invalidate the remaining portions of this ordinance.

Appendix D – Evaluation of Best Management Practices

Appendix D -Evaluation of Best Management Practices

The programmatic measures will require implementation of BMPs for stormwater control. Storm water management objectives have evolved over the past decades beyond the historic conveyance improvements and flood control strategies to the current guidance to manage the frequent storms and the pollutant loads. This has provided significant benefits in watershed protection. However, in an attempt to mimic the hydrologic response of a forested watershed (10 percent effective impervious area [EIA]), additional effort must be expended to manage storm water closer to the source and manage the overall volume of runoff. EIA refers to the impervious areas that are directly connected to storm water conveyance systems, such as stream channels and storm sewers, with no opportunity for infiltration. In a watershed context, the most effective BMP strategies must strive to:

- Detain runoff from larger storms to provide peak attenuation and restore the travel time of the undeveloped watershed.
- Convey the extreme events safely through the drainage system without increasing the flood risk to downstream properties.

BMPs were rated on the basis of their ability to meet the three criteria described above. In developing BMP strategies to protect District watersheds, the priorities for management include:

- Eliminate sources of degradation wherever practicable.
- Manage the runoff as close to the source as possible.
- Provide larger-scale structural BMPs where water quality and quantity impacts are unavoidable.
- Provide for the safe passage of flood waters through the stream systems.

On a local scale, BMP strategies will be developed to meet the watershed protection objective of reducing water quality violations and impairment of streams that prevent them from supporting their designated uses. The ultimate goal of the BMP strategies is to represent, as well as possible, the runoff characteristics of forested land, including flow velocity, volume, flow rate, and pollutant loads.

Programmatic measures recommend use of BMPs to achieve water quality goals through control of non-point source runoff. BMPs include a wide-variety of structural and non-structural measures and can be categorized into five broad groups:

- **Pollution Prevention** (or source control) BMPs are practices designed to eliminate the source of watershed impairment. Public education on managing pesticides, herbicides, and fertilizers is a good example of a pollution prevention BMP.

- **Nonstructural** BMPs are practices designed to reduce the impairment caused by site development (or other sources) through alternative, more natural designs. Examples of nonstructural BMPs include better site design and stream buffers.
- **Regulatory or Policy** BMPs include ordinances or other regulations whereby a property owner must comply with certain requirements. Regulatory BMPs may include specifying the use of any of the other four categories of BMP. Examples include zoning regulations, limits on imperviousness, and requirements to inspect and maintain septic systems.
- **Operation and Maintenance** (O&M) BMPs include practices designed to minimize the watershed degradation associated with some other activity. Inspection and maintenance of stormwater ponds and cleaning catch basins are examples of O&M BMPs.
- **Structural BMPs** are utilized to capture and treat storm water that is already contaminated. Structural BMPs, such as extended detention wet ponds, infiltration trenches, or streambank restoration, are most appropriate where prevention or nonstructural alternatives are infeasible.

The effectiveness of a BMP depends on the relative contribution of specific sources to the total degradation and the most effective BMP or strategy may vary according to local conditions. The general effectiveness of each BMP was ranked for each parameter/source on a scale of 0 (no noticeable control) to 5 (significant control, greater than 80 percent reduction in degradation), based on literature research and local experience. Figure 1 provides descriptions and summarizes the predicted effectiveness of 61 BMPs applied to 36 sources of impairment.

BMPs were evaluated in comparison to the overall District Policy Goals. For comparison purposes, the BMPs were grouped into the five categories discussed above and scored. Scores were developed based on a review of available literature, professional judgement, and feedback from the TCC and BACs. Scores range from 0 to 10, with larger values indicating higher benefits of a given BMP category. The scores for each category of BMP as they relate to the Policy Goals are summarized in Table 1.

Figure 1: BMP Effectiveness for a Given Parameter and Source

Levels of Effectiveness: Estimated, using removal efficiency only. Technical feasibility not incorporated.

0 Not Applicable
1 Low
3 Medium
5 High

IMPAIRMENT PARAMETERS		Pathogens									Nutrients			Hydrology					Metals (Cu, Zn, Pb, and Hg)				Toxins (pesticides, herbicides, and surfactants)					Biotic Integrity				Sediment							
SOURCE NUMBER:		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		36	
Overall BMP Rating	SOURCE/CAUSE OF IMPAIRMENT>>>>	Sewer Leaks	SSO's	CSO's	Septic Tank and Drainfields	Wildlife	Pets	Illicit Connections	Livestock	Standing Water	Improper Fertilizer Application	Poor Housekeeping	Urban Runoff	Increased Flood Volume	Increased Duration of Channel-Forming Flows	Increased Flow Rates (flooding)	Increased Flow Velocities	Conveyance System Improvements	Illegal Discharges	Accidental Spills	Poor Housekeeping	Urban Runoff	Illegal Discharges	Accidental Spills	Poor Housekeeping	Urban Runoff	Misapplication of Pesticides and Herbicides	Loss of Habitat due to Sediment	Loss of Habitat due to Hydrology	Loss of Habitat due to Buffer Encroachment	Thermal Pollution	Legacy of Sediment in Channels from Decades of Agriculture and Silviculture	Washoff from Stable Developed Areas	Washoff from Construction Areas	Channel Bed and Bank Erosion	Active Agriculture or Grazing	Active Silviculture and Logging	Minor Land-Disturbing Activities	Relative Cost
	Prevention or Source Control BMPs																																						
10.1	Improved Public Education (including "prevent and test standing water" mosquito programs)	1	1	1	5	1	5	3	4	5	5	1	2	0	0	0	0	0	5	3	3	3	5	3	3	3	3	1	1	1	1	0	1	1	1	1	0	3	1
7.4	Disconnect impervious areas	0	0	1	0	0	0	0	0	1	1	1	3	3	3	1	3	0	0	0	1	3	0	0	1	3	0	3	3	0	5	0	3	0	3	0	0	1	1
2.5	Household hazard waste collection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	3	0	5	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2.4	Encourage native vegetation especially in riparian buffers	1	1	1	1	1	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1
1.5	Encourage low-phosphorus fertilizers	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1.0	Improve application instructions for use of household pesticides, herbicides and fertilizers	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
0.7	Encourage vehicle-use reduction	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1
	Nonstructural BMPs																																						
11.0	Reduce total impervious areas such as roadway lengths, widths, footprints of buildings, parking footprint	0	0	0	0	0	1	0	0	1	1	1	3	5	5	5	3	0	0	1	1	3	0	1	1	3	1	5	5	5	5	0	1	0	3	0	0	3	1
10.9	Natural area and greenspace conservation	0	0	0	1	1	1	0	1	0	3	1	3	3	3	3	1	3	0	1	1	3	0	1	1	3	1	3	3	5	3	0	3	3	1	3	3	3	1
7.6	Revegetation of open space and buffers	0	0	0	0	0	0	0	0	0	1	1	1	3	1	3	0	0	0	1	1	3	0	1	1	3	1	3	3	5	3	0	1	3	1	3	0	3	1
4.1	Site grading to reduce runoff and erosion	0	0	0	0	0	0	0	3	0	1	0	1	1	1	1	0	0	0	0	0	1	0	1	0	1	1	3	3	0	0	0	0	1	1	5	0	1	2
3.9	Shoreline revegetation	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	3	0	0	0	5	0	1	0	2
1.8	Vegetation strips adjacent to ponds to block glide paths of waterfowl	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2
1.0	Mitigation of high temperature runoff thourgh vegetative filters	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	2
0.4	Provide park areas where pet waste is controlled	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Regulatory or Policy BMPs																																						
11.1	Require Low Impact Development for new construction	0	0	0	0	0	0	0	0	0	1	0	1	5	5	5	5	5	0	0	1	3	0	0	1	3	1	3	3	5	3	0	3	3	3	0	0	5	1
4.9	Zoning to protect riparian and other sensitive areas, or other regulations to reduce intensity of development	0	0	0	3	0	0	0	0	0	3	0	3	3	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1
4.8	Tighter regulations and inspections for material handling	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	3	5	5	1	3	5	5	1	1	0	0	0	0	0	0	0	0	0	0	0	1
4.3	Compliance with general stormwater permit for industrial activity	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	3	3	5	1	3	3	5	1	3	0	0	0	0	0	0	0	0	0	0	0	1
3.2	Regulation of lawn care services	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	1	1	1	1	3	3	0	5	0	0	0	0	0	1	0	0	0	0	0	1
3.2	Tighter regulations and inspections for construction sites	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	1	1	1	1	5	1	1	0	0	0	5	1	0	0	0	1
2.9	Ordinances for treatment of car wash water	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	3	3	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	1
1.7	Restrict residential car washing	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	3	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1
1.4	Require routine internal inspection and cleaning of septic system	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0.6	Ordinances for animal waste collection	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Operation & Maintenance BMPs																																						
8.5	Complaint hotline and investigation for community to report environmental problems	1	1	0	1	0	3	4	3	3	2	1	3	0	0	0	1	0	3	1	3	1	3	1	3	1	3	1	1	1	1	1	1	3	1	3	3	3	3
8.4	Routine inspection and maintenance of existing BMPs	0	0	0	0	3	3	3	3	0	3	3	3	3	0	3	0	0	1	1	1	3	1	1	1	3	1	3	3	0	0	0	3	0	1	1	1	1	3

Figure 1: BMP Effectiveness for a Given Parameter and Source

Levels of Effectiveness: Estimated, using removal efficiency only. Technical feasibility not incorporated.

0 Not Applicable
1 Low
3 Medium
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	IMPAIRMENT PARAMETERS	Pathogens									Nutrients			Hydrology					Metals (Cu, Zn, Pb, and Hg)				Toxins (pesticides, herbicides, and surfactants)					Biotic Integrity				Sediment							
	SOURCE NUMBER:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		36	
Overall BMP Rating	SOURCE/CAUSE OF IMPAIRMENT>>>>	Sewer Leaks	SSO's	CSO's	Septic Tank and Drainfields	Wildlife	Pets	Illicit Connections	Livestock	Standing Water	Improper Fertilizer Application	Poor Housekeeping	Urban Runoff	Increased Flood Volume	Increased Duration of Channel-Forming Flows	Increased Flow Rates (flooding)	Increased Flow Velocities	Conveyance System Improvements	Illegal Discharges	Accidental Spills	Poor Housekeeping	Urban Runoff	Illegal Discharges	Accidental Spills	Poor Housekeeping	Urban Runoff	Misapplication of Pesticides and Herbicides	Loss of Habitat due to Sediment	Loss of Habitat due to Hydrology	Loss of Habitat due to Buffer Encroachment	Thermal Pollution	Legacy of Sediment in Channels from Decades of Agriculture and Silviculture	Washoff from Stable Developed Areas	Washoff from Construction Areas	Channel Bed and Bank Erosion	Active Agriculture or Grazing	Active Silviculture and Logging	Minor Land-Disturbing Activities	Relative Cost
6.1	Identification and elimination of non-stormwater discharges	3	3	0	1	0	0	5	0	0	2	2	3	0	0	0	0	0	5	1	2	3	5	0	2	3	2	0	0	0	0	0	1	0	1	0	0	1	3
5.4	Trend monitoring, source detection and elimination	3	3	0	4	0	0	4	0	0	0	3	3	0	0	0	0	0	3	1	3	3	3	1	3	3	1	0	0	0	0	0	0	0	0	0	0	0	3
5.1	Catch basin cleaning	0	0	0	0	0	0	0	0	3	1	1	1	0	0	0	3	0	1	1	3	3	1	1	3	3	1	1	0	0	0	0	3	3	0	0	0	3	3
4.5	Storm Drain Flushing	0	0	3	1	0	0	0	0	0	1	1	3	0	0	0	3	1	1	1	3	3	1	1	3	3	1	0	0	0	0	0	0	0	0	0	0	1	3
4.5	Street Cleaning	0	0	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	3	3	4	0	3	3	4	1	1	0	0	0	0	1	1	0	0	0	4	3
2.1	External sewer line inspections and repair	4	1	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1.7	Spill response,control and prevention programs	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1.0	Sewer Lateral Inspection and Repair	3	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
0.9	Routine Internal Inspection and Cleaning of Sewer Lines	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
0.9	I/I Studies and Detection of Repair Needs	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	Structural BMPs																																						
15.5	Extended detention wet pond	1	1	1	3	3	3	1	3	3	5	5	5	4	4	4	3	3	1	1	3	4	1	1	3	4	3	4	3	0	0	0	5	5	2	0	0	5	5
14.1	Stormwater pond (wet)	1	1	1	3	3	3	1	3	3	4	4	4	3	4	4	3	3	1	1	3	4	1	1	3	4	3	4	3	0	0	0	4	4	2	0	0	4	5
14.0	Constructed Treatment Wetlands	2	3	3	3	3	2	2	3	1	3	1	5	5	5	5	3	3	1	1	2	3	1	1	2	3	3	3	3	0	0	1	3	1	4	4	1	1	5
11.8	Bioretention	1	3	3	3	1	2	0	1	3	3	2	5	2	2	2	1	3	3	1	3	5	3	3	3	5	3	1	1	0	0	0	3	3	1	1	0	5	5
11.6	Extended dry detention	1	0	0	1	0	0	0	0	0	3	3	3	5	5	5	3	3	0	0	1	2	0	0	1	2	2	4	4	0	0	0	5	5	3	0	0	5	5
10.2	Riparian Buffers	0	0	0	0	0	0	0	3	0	3	1	3	3	1	3	0	3	0	1	1	3	0	1	1	3	1	3	3	5	3	0	3	3	1	3	3	3	3
9.3	Natural Wetland Systems	0	0	1	0	1	3	0	3	1	1	1	1	5	5	5	1	4	1	1	1	1	1	1	1	1	1	3	3	3	0	0	0	0	5	0	1	0	3
8.4	Retrofit and enhance existing BMPs	0	0	0	0	1	1	1	1	1	3	1	5	1	0	3	0	0	1	1	1	5	1	1	1	5	3	3	3	0	0	0	5	0	1	1	1	3	3
8.4	Enhanced Swales (wet and dry)	1	1	0	1	1	1	0	1	0	3	0	3	1	1	1	1	3	1	1	1	5	1	1	1	3	5	1	1	0	1	0	3	3	3	1	0	5	3
8.0	Vegetative filter strips	1	1	0	3	1	1	0	3	0	3	1	0	3	3	3	1	0	0	0	0	0	0	0	0	0	0	1	3	4	3	0	3	1	3	3	3	0	3
7.8	Specialized Agricultural BMPs	0	0	0	0	4	0	0	4	3	3	3	0	1	1	0	0	0	1	1	1	0	0	3	3	0	0	3	1	3	3	3	0	0	5	5	0	0	5
7.5	Filtering Practices (sand filters, …)	1	0	0	3	0	0	0	0	3	3	3	1	3	3	3	0	0	1	1	1	3	1	1	1	3	0	3	1	0	1	0	3	1	0	1	0	1	5
7.5	Check dams, runoff diversions	0	1	1	0	1	0	0	0	1	0	0	0	3	3	3	0	3	0	0	0	3	0	0	0	3	1	3	3	0	0	1	5	3	5	1	1	3	3
7.3	Construction site BMPs	0	0	0	0	0	0	0	0	1	0	0	0	5	4	3	3	3	0	0	0	0	0	0	0	0	0	5	2	0	0	4	4	5	3	0	0	0	3
6.9	Capture 'clean' stormwater for reuse	0	0	3	0	0	0	0	0	1	1	1	2	3	3	1	0	1	1	1	3	3	1	1	3	3	1	0	3	0	0	0	3	1	3	0	0	3	5
6.9	Rooftop runoff management	0	0	0	0	0	0	0	0	1	0	0	3	5	5	2	3	1	0	0	0	3	0	0	0	3	0	0	1	0	5	0	3	0	1	0	0	3	5
6.6	Hydrodynamic controls and devices	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	0	0	3	3	3	3	0	3	3	3	3	2	0	0	0	0	3	3	0	0	0	3	5
5.6	Stream bank restoration	0	0	0	0	3	0	0	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	5	3	5	0	5	0	0	5	3	1	0	5
5.5	Chemical Treatment to enhance existing BMPs	0	0	0	3	0	0	0	0	1	3	3	3	0	0	0	0	0	2	2	2	2	2	2	2	3	2	0	0	0	0	0	5	0	0	0	0	0	5
5.5	Infiltration trench and dry well	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	3	3	3	3	0	0	3	3	3	3	0	0	0	0	3	0	3	3	0	0	5
5.0	Dry detention	1	0	0	1	0	0	0	0	0	1	1	1	0	0	5	3	3	0	0	1	1	0	0	1	1	1	1	3	0	0	0	1	1	1	0	0	1	5
2.4	Pervious pavement	0	0	0	0	0	0	0	0	2	0	0	1	3	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5
1.3	Connection of septic systems to sanitary sewers	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
1.3	Atlanta's program for CSO's	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

TABLE 1

Ranking of BMPs Related to District Policy Goals[1]
Metropolitan North Georgia Water Planning District Watershed Management Plan

Policy Goal	Pollution Prevention	Nonstructural	Regulatory	O&M	Structural
Support Economic Development	7/5[2]	8/2	5/5	5/8	9/9
Improve Water Quality	10/10	10/10	9/9	8/8	8/8
Equitable Distribution of Benefits/Costs	10/10	8/2	5/5	10/2	10/2
Implementability	10/8	8/0	8/2	10/10	10/7
Promote Public Education	10/10	8/5	8/8	8/8	5/2

[1] Scale of 0-10, the higher the score the greater the benefit
[2]Applicability for new development/existing development

Overall, pollution prevention and nonstructural BMPs were ranked highest for new development based on feedback from the TCC. Pollution prevention and O&M BMPs scored highest for existing development. Scores for all new development BMP categories were higher than existing development scores in almost every category. Similar trends are evident in overall BAC rankings.

Appendix E – DeKalb County Stormwater Utility Ordinance

AN ORDINANCE

AN ORDINANCE TO AMEND THE CODE OF DEKALB COUNTY, GEORGIA, CHAPTER 25, ARTICLE V PERTAINING TO A STORMWATER UTILITY, AND FOR OTHER PURPOSES.

WHEREAS, DeKalb County is responsible for the protection and preservation of the public health, safety, and welfare of the community;

WHEREAS, The Board of Commissioners of DeKalb County is authorized by Article IX, Section II, Paragraph III(a)(6) of the Georgia Constitution to provide a stormwater collection and disposal system throughout the unincorporated area of DeKalb County;

WHEREAS, the federal Clean Water Act as amended by the Water Quality Act of 1987 (33 U.S.C. 1251 et seq.) and rules promulgated by the United States Environmental Protection Agency pursuant to the Act emphasizes the role of local governments in developing, implementing, conducting and funding stormwater programs which address water quality impacts of storm water runoff;

WHEREAS, DeKalb County has identified an ongoing need to fund water quality improvements in streams, creeks, and ditches within the County as well as the need to fund improvements for maintaining and improving water quality and to mitigate and prevent flooding from stormwater runoff into storm sewers and open channels;

WHEREAS, the County has undertaken a comprehensive review by staff and professional consultants of the need for, management of and funding for a Stormwater Utility; and

WHEREAS, the Board of Commissioners finds that it is in the best interest of the health, safety, and welfare of the citizens of the County and the community at large to proceed with the development, implementation, and operation of a utility for stormwater management accounted for in the County budget as a separate enterprise fund dedicated solely to stormwater management and to institute funding methods associated therewith;

Be it ordained by the Board of Commissioners of DeKalb County, Georgia, and it is hereby ordained by the authority of same, that Chapter 25, Article V, Sections 25-307 through 25-390 of the Code of DeKalb County, Georgia, is amended to read as follows:

Part I. Enactment

Sections 307 through 390, Article V, of Chapter 25 of the DeKalb County Code is hereby enacted to read as follows:

Sections 25-307 – 25-359. Reserved.

Article V. Stormwater Utility.

Section 25-360. Findings.

The Board of Commissioners of DeKalb County, Georgia makes the following findings:

(a) Stormwater management is needed throughout the unincorporated area of DeKalb County. While specific service and facility demands may differ from area to area at any given point in time, a stormwater management service area encompassing all lands and water bodies within the unincorporated area of DeKalb County is consistent with the present and future needs of the community.

(b) Addressing the stormwater management needs in DeKalb County is essential to protecting the public health, safety, and welfare. Provision of stormwater management programs and facilities results in both service and benefit to all properties, property owners, citizens, and residents of DeKalb County in a variety of ways.

(c) DeKalb County presently owns and operates stormwater management systems and facilities which have been developed over many years The future usefulness of the existing stormwater systems owned and operated by the County, and of additions and improvements thereto, rests on the ability of the County to effectively manage, protect, control, regulate, use, and enhance stormwater systems and facilities in DeKalb County in concert with the management of other water resources in the County. In order to do so, the County must have adequate and stable funding for its stormwater management program's operating needs and capital.

(d) County staff reports and the professional engineering and financing feasibility analysis submitted to the County properly assess and define the stormwater management problems, needs, goals, program priorities and funding opportunities of the County.

(e) As a result, the county's governing authority finds that a utility provides the most practical and appropriate means of properly delivering storm water management services and the county's governing authority finds that a utility fee provides the most practical and appropriate means of funding storm water management services in DeKalb County.

Section 25-361. Definitions.

The following definitions shall apply to this Article. Any word or phrase not defined below but otherwise defined in the Code of Ordinances shall be given

that meaning. All other words or phrases shall be given their common ordinary meaning unless the context clearly requires otherwise.

Channel Protection shall have the same meaning as the term is defined in the Georgia Stormwater Manual, Volume 2, as amended hereafter.

Credit shall mean a conditional reduction in the amount of a stormwater service charge to an individual property based upon the terms and conditions of this Article.

Customer shall mean all persons, properties, and entities served by the utility's acquisition, management, maintenance, extension, and improvement of the public storm water management systems and facilities and regulation of public and private stormwater systems, facilities, and activities related thereto, and persons, properties, and entities which will ultimately be served or benefited as a result of the stormwater management program.

Developed land shall mean all property not deemed as Undeveloped Land.

Equivalent residential unit (ERU) shall mean the unit of measure which provides the basis for comparing the runoff generated by one parcel with that generated by another. An ERU shall be the median impervious coverage of a statistical sampling of single detached dwelling lots in DeKalb County, which has been determined to be three thousand (3000) square feet of impervious area.

Impervious Surfaces shall mean those areas, which prevent or impede the infiltration of stormwater into the soil as it entered in natural conditions prior to development. Common impervious surfaces include, but are not limited to, rooftops, sidewalks, walkways, patio areas, driveways, parking lots, storage areas, compacted gravel and soil surfaces, awnings and other fabric or plastic coverings.

Multiple dwelling lot shall mean a developed lot whereon more than one attached or detached residential dwelling units are located.

Other developed land shall mean, but shall not be limited to, commercial and office buildings, industrial and manufacturing buildings, storage buildings and storage areas covered with impervious surfaces, parking lots, parks, recreation properties, public and private schools and universities, research stations, hospitals and convalescent centers, airports, and agricultural uses covered by impervious surfaces.

Overbank Flood Protection shall have the same meaning as the term is defined in the Georgia Stormwater Manual, Volume 2, as amended hereafter.

Service fees shall mean the stormwater management service fees applicable to a parcel of developed land, which charge shall be used to fund the DeKalb County stormwater utility's cost of providing stormwater management services and facilities.

Single dwelling lot shall mean a developed lot containing one dwelling structure with its principal use being a residential dwelling.

Stormwater Management System means any one or more of the various devices used in the collection, treatment, or disposition of storm, flood or surface drainage waters, including all manmade structures or natural watercourse for the conveyance or transportation of runoff, such as: detention areas, berms, swales, improved watercourses, open channels, bridges, gulches, streams, gullies, flumes, culverts, gutters, pumping stations, pipes, ditches, siphons, catch basins and street facilities; all inlets; collection, drainage or disposal lines; intercepting sewers; disposal plants; outfall sewers; all pumping, power, and other equipment and appurtenances; all extension, improvements, remodeling, additions, and alterations thereof; and any and all rights or interests in such stormwater facilities. Stormwater facilities expressly excludes any of the foregoing which exist for, or are used exclusively for the purpose of collection, treating, measuring, supplying, or distributing potable water within or as part of the county water supply and treatment system, or any of the foregoing which exist for or are used exclusively for the purpose of collecting, treating, or measuring effluent within or as part of the county sanitary sewer system.

Undeveloped Land shall mean a lot in its unaltered natural state and which has no pavement, asphalt, or compacted gravel surfaces or structures which create an impervious surface that would prevent infiltration of stormwater or cause stormwater to collect, concentrate, or flow in a manner materially different than that which would occur if the land was in an unaltered natural state.

Water Quality shall have the same meaning as the term is defined in the Georgia Stormwater Manual, Volume 2, as amended hereafter.

Section 25-362. Establishment of a utility.

(a) There is hereby established a stormwater utility within the Public Works Department which shall be responsible for stormwater management throughout the County's jurisdictional limits, and shall provide for the

management, protection, control, regulation, use, and enhancement of stormwater systems and facilities.

(b) The governing authority of DeKalb County hereby transfers to the stormwater utility operational control over the existing stormwater management systems and facilities owned and heretofore operated by the County and other related assets, including but not limited to properties upon which such facilities are located, easements, rights-of-entry and access, and certain equipment.

Section 25-363. Scope of Responsibility for the stormwater utility.

(a) The stormwater utility shall monitor the design, operation, maintenance, inspection, construction, and use of all stormwater systems in the county. The stormwater utility shall be responsible for the design and construction of public stormwater facilities owned by the county and shall inspect, operate, and maintain them as prescribed herein. The stormwater utility shall be responsible for plan approval and construction inspection of both private stormwater facilities and public stormwater facilities not owned by the county. Additionally, the stormwater utility may accept the responsibility for the operation and maintenance of private stormwater facilities only when such services have been agreed to, contracted for, and approved by the governing authority of the county.

(b) The stormwater utility shall provide for inspection of private facilities to ascertain that the stormwater facilities are functioning as designed and approved. The stormwater utility shall provide for remedial maintenance of facilities based upon the severity of stormwater problems and potential hazard to the public health, safety, and welfare.

Section 25-364. Establishment of enterprise fund.

(a) The chief executive officer shall establish a stormwater enterprise fund in the County budget and accounting system for the purpose of dedicating and protecting all funding applicable to the purposes and responsibilities of the utility, including but not limited to rentals, rates, charges, fees, and licenses as may be established by the board of commissioners.

(b) Except as provided pursuant to section 24-364(c), any revenues and receipts of the stormwater utility shall be placed in the stormwater enterprise fund and all expenses of the utility shall be paid from the stormwater enterprise fund, except that other revenues, receipts, and resources not in the stormwater utility enterprise fund may be applied to stormwater management operations and capital investments as deemed appropriate by the board of commissioners, upon recommendation of the chief executive officer.

(c) The County may pledge all or any portion of all income and revenue of any nature derived from the operation of the stormwater management systems and facilities owned by the county, including periodic stormwater service charges and other charges for stormwater service, to the payment of principal of premium, if any, and interest on any revenue bonds or other obligations lawfully issued or otherwise contracted for by the county as may be provided in any resolution authorizing such bonds or obligations or in any trust instrument relating to such bonds or obligations.

Section 25-365. Stormwater Service fees established.

In order to fully recover the cost of providing stormwater services and facilities while fairly and reasonably apportioning the cost among developed properties throughout the unincorporated portion of the County, the following stormwater rates shall apply:

(1) The stormwater service charge per equivalent residential unit shall be four dollars ($4.00) per month or as amended by official action of the governing authority.

(2) All single detached dwelling lots shall be charged the rate applicable to one (1) equivalent residential unit.

(3) All multiple dwelling lots shall be charged the rate applicable to one (1) equivalent residential unit times the number of dwelling units located on the multiple dwelling unit property times an adjustment factor that adjust the ERU to equal the median impervious coverage of a statistical sampling of a single dwelling unit within a multiple dwelling lot in DeKalb County, which has been determined to be 0.7.

(4) All other developed lands shall be billed for one (1) equivalent residential unit for each three thousand (3000) square feet of impervious surface or increment thereof on the property, rounded to the next highest tenth of an equivalent residential unit.

Section 25-366. Effective date of Stormwater service charges and termination of pond fees and other stormwater relates fees in force prior to effective date.

The stormwater service fee shall accrue beginning January 1, 2003 and shall be billed annually thereafter.

Section 25-367. Elimination of pond maintenance fees.

Beginning January 1, 2003, all fees collected for pond maintenance are hereby eliminated.

Section 25-368. Exemptions.

The following properties are exempt from stormwater utility fees:

(1) Undeveloped land;

(2) All public rights of way; and

(3) Railroad rights of way (tracks). However, railroad stations, maintenance buildings, or other developed land used for railroad purposes shall not be exempt from stormwater service charges.

(4) Any property whereby one hundred percent (100%) of the stormwater runoff is contained on the premises and no runoff enters into the Stormwater Management System.

Section 25-369. Credits.

(a) Property owners of developed land may receive a stormwater service charge credit for on-site systems or facilities. Stormwater service charge credits shall be determined based on the technical requirements design and performance standards contained in the Georgia Stormwater Management Manual as may be updated or amended from time to time. Stormwater service charge credits may total up to forty (40) percent of the service charge applicable to a property, and shall be granted in the following increments:

(1) 10% credit for on-site systems or facilities sized and functioning to meet Water Quality in accordance with the DeKalb County Code and the Georgia Stormwater Management Manual as may be updated or amended from time to time.

(2) 10% credit for on-site systems or facilities properly sized and functioning to meet the Channel Protection in accordance with the with the DeKalb County Code and the Georgia Stormwater Management Manual as may be updated or amended from time to time.

(3) 10% credit for on-site systems or facilities sized and functioning to meet the Overbank Flood Protection in accordance with the with the DeKalb County Code and the Georgia Stormwater

Management Manual as may be updated or amended from time to time.

(4) 10% credit for on-site systems or facilities sized and functioning to meet the Extreme Flood Protection properly as defined in the Statewide Stormwater Sizing Criteria for Stormwater Control and Mitigation [Georgia Stormwater Management Manual, Vol 2 (Technical Handbook), Section 1.3] as may be updated or amended from time to time.

(b) Property owners seeking service charge credits must apply for stormwater service charge credits through completion and submittal to the County of a stormwater service charge credit application prior to January 1st of the year in which stormwater service charges are to be billed by the County. (except for 2003, in which applications must be received by March 1, 2003.) Credits will only be granted through applications approved by the County for the remainder of the year in which stormwater service charges are to be billed by the County.

(c) Upon receipt of a timely filed completed application, the chief executive officer or his designee shall review the application and make a determination as to whether the applicable criteria for a credit has been met. All decisions regarding the approval or disapproval of a stormwater credit shall be made within forty-five (45) days of the date the completed application was submitted to the County.

(d) Any credit allowed against the service charge is conditioned on (1) continuing compliance with the County's design and performance standards as stated in the Georgia Stormwater Management Manual as may be updated or amended from time to time; and (2) upon continuing provision of the systems or facilities provided, operated, and maintained by the property owner or owners upon which the credit is based. The County may revoke any credit at any time for non-compliance with this Article.

Section 25-370. Inspection of private facilities.

Continuing compliance with the County's design and performance standards may be verified by County inspection of the systems or facilities upon which the credit is based. No credit shall be given under this Article unless the property owner agrees in writing in its application that the County shall have the right for its designated officers, representatives, agents, and employees to enter upon private and public property, upon reasonable notice to the owner of such property, to inspect the property and conduct surveys and engineering testing, on such property in order to assure compliance with the County's design and performance standards. On-site systems or facilities determined to no longer

comply with the County's design and performance standards shall subject the property owner to revocation of all, or a portion of, stormwater service charge credits based on the County inspectors' estimate of capacity reduction for a period of not less than one (1) year.

Section 25-371. Stormwater service charge, billing, delinquencies and collections.

A stormwater service charge bill may be sent through the United States mail or by alternative means notifying the customer of the amount of the bill, the date the payment is due, and the date when past due. Failure to receive a bill is not justification for non-payment. Regardless of the party to whom the bill is initially directed, the owner of each parcel of developed land shall be ultimately obligated to pay such fee. If a customer is underbilled or if no bill is sent for developed land, the County may backbill for a period of up to one year, but shall not assess penalties for any delinquency due to the failure to send a bill or an under billing. A one and one-half percent (1.5%) per month late charge shall be assessed against the owner for the unpaid balance of any stormwater utility service charge that becomes delinquent.

Section 25-372. Stormwater Utility Service charges inspections and enforcement.

(a) The stormwater utility service charge may be billed separately, or on a customer statement and collected along with other utility services, at the County's sole discretion.

(b) Every owner of real property located in the unincorporated area of the County, and every person who serves as a contractor or developer for the purpose of developing real property located in the unincorporated area of DeKalb County shall provide, manage, maintain, and operate on-site stormwater management systems and facilities sufficient to collect, convey, detain, control and discharge stormwater in a safe manner consistent with all DeKalb County ordinances and development regulations, and the laws of the State of Georgia and the United States of America. Any failure to meet this obligation shall constitute a nuisance and be subject to an abatement action filed by any damaged party or DeKalb County in any Court of competent jurisdiction. In the event a public nuisance is found by the Court to exist, which the owner fails to properly abate within such reasonable time as allowed by the Court, the County may enter upon the property and cause such work as is reasonably necessary to abate the nuisance with the actual cost thereof assessed against the owner or developer, if any, on a joint and several basis. From the date of the filing of such action, the County shall have lien rights, which may be perfected, after judgment, by filing a notice of lien on the General Execution Docket of the Superior Court of DeKalb County.

DeKalb County shall have the right, pursuant to the authority of this Article, for its designated officers and employees to enter upon private and public property owned by entities other than the County, upon reasonable notice to the owner thereof, to inspect the property and conduct surveys and engineering tests thereon in order to assure compliance with this section.

Section 25-373. Appeals

(a) Any customer who believes the provisions of this Article have been applied in error may appeal in the following manner:

(1) An appeal must be filed in writing with the chief executive officer or designee within thirty (30) days of the decision that is appealed. In the case of service charge appeals, the appeal shall include a survey prepared by a registered land surveyor or professional engineer containing information on the total property area, the impervious surface area, and any other features or conditions which influence the hydrologic response of the property to rainfall events.

(2) The chief executive officer or his designee shall conduct a technical review of the conditions on the property and respond to the appeal in writing within thirty (30) days.

(3) In response to an appeal the chief executive officer or his designee may adjust the stormwater service charge applicable to a property in conformance with the general purpose and intent of this Article.

(4) All decisions by the chief executive officer shall be final.

(b) The appeal process contained in this section shall be a condition precedent to an aggrieved customer seeking judicial relief. Any decision of the chief executive officer may be appealed by application for writ of certiorari in the Superior Court of DeKalb County, filed within thirty (30) days of the date of service of the decision of the chief executive officer.

Part II. Severability

Should any section or provision of this ordinance be declared by a court of competent jurisdiction to be invalid or unconstitutional, such decision shall not affect the validity of the ordinance as a whole nor any part thereof other than the part so declared to be invalid or unconstitutional. All ordinances or resolutions, or parts thereof, in conflict with this ordinance are repealed.

Appendix F- Potential Partners for District Education and Public Awareness Program

Potential Partnering Organizations, Agencies and Entities

Water-Related and Environmental Organizations

American Water Resources Association (AWRA)
American Water Works Association (AWWA)
Georgia Water & Pollution Control Association (GW&PCA)
Georgia Association of Stormwater Management Agencies (GASMA)
Georgia Water Wise Council
Georgia Conservancy
The Nature Conservancy
Upper Chattahoochee Riverkeeper
Georgians for Responsible Growth
Southface Energy Institute
Keep Georgia Beautiful
Trout Unlimited
Georgia Sierra Club
RiversAlive
Chattahoochee Cold Water Tailrace Fishery Foundation
Georgia Canoeing Association
Georgia Ground Water Association
Georgia Well Drinkers Association
Georgia Lake Management Society
Georgia Soil and Water Conservation
Georgia Environmental Organization (GEO)
Georgia Rural Water Association
Natural Resources Conservation Society
National Wildlife Federation
Soil Science Society of Georgia
EeinGeorgia.org
ECO-Action
Chattahoochee Nature Center
Outdoor Activity Center
Elachee Nature Science Center
Oakhurst Community Garden Project
Trees Atlanta, Inc.
Trust for Public Land
Lake Lanier Association
Chattowah Open Land Trust
The Wilderness Society
Cochran Mill Nature Center
Environmental Defense
Save Our Communities
Hands on Atlanta
Georgia Environmental Technology Consortium
Georgia Environmental Council

Government Agencies

Georgia Environmental Protection Division (EPD)
Georgia Department of Community Affairs (DCA)
Georgia Pollution Prevention Assistance Division (P2AD)
Georgia Environmental Facilities Authority (GEFA)
Georgia Emergency Management Agency (GEMA)
Georgia Department of Transportation (GDOT)
Georgia Department of Industry, Trade and Tourism
U.S. Environmental Protection Agency (EPA -- Region 4)
U.S. Fish and Wildlife Service
U.S. Army Corps of Engineers
National Weather Service, SE River Forecast Center
Federal Emergency Management Agency (FEMA)

Governmental Associations

Association Of County Commissioners Of Georgia (ACCG)
Georgia Municipal Association (GMA)
Regional Development Centers

Higher Education

Georgia Tech
Georgia State University
University of Georgia
UGA Cooperative Extension Service

Chambers of Commerce

Metro Atlanta Chamber
Cobb County Chamber of Commerce
Dekalb County Chamber of Commerce
Gwinnett County Chamber of Commerce
Fulton County Chamber of Commerce
Greater North Fulton Chamber of Commerce
South Fulton Chamber of Commerce
Clayton County Chamber of Commerce

County/City Parks and Recreation Departments

Clayton County Parks & Recreation
Cobb County Parks & Recreation
Dekalb County Parks & Recreation
Gwinnett County Parks & Recreation
Fulton County Parks & Recreation
City of Atlanta Bureau of Parks

Business Associations

Regional Business Coalition
Georgia Association of Convenience Stores
Georgia Green Industry Association
Greater Atlanta Homebuilders Association
Georgia Retail Association
Georgia Soft Drink Association
Georgia Urban Agriculture Coalition
Georgia Tire Dealers and Retreaders
Georgia SWANA
Atlanta Board of Realtors
National Association of Industrial and Office Parks
Atlanta Women Business Owners
American Subcontractors Association
Metro Atlanta Auto Dealers Association (MAADA)
Georgia Composting Association
Southern Aerosol Technical Association (SATA)

Specific Civic/Neighborhood/Homeowners Associations

Central Atlanta Progress
Midtown Alliance
Atlanta Neighborhood Development Partnership
Midtown Neighbors' Association
North Buckhead Civic Association
Inman Park Neighborhood Association
Edgewood Heights Neighborhood Association
Buckhead Business AssociationClairmont Heights Civic Association
Atlanta Airport/East Point Rotary
South Fulton Rotary
Buckhead Civitan Club
Buckhead Rotary
Buckhead Atlanta Kiwanis
Northwest Atlanta Kiwanis
Young Bucks
Ashford-Perimeter Center Kiwanis
North Dekalb Rotary
Decatur Civitan
Dekalb Civitan Club
Dekalb Lions Club
Druid Hills Civitan
Druid Hills Kiwanis
Northlake Rotary
Metro Dekalb Kiwanis
Optimist Club of Downtown Decatur
Rotary Club of Decatur
South Dekalb Rotary Club
Stone Mountain Rotary
West Dekalb Rotary
Austell/South Cobb Rotary
Galleria Kiwanis
Vinings Rotary
Marietta Rotary
Acworth Optimist
East Cobb Civitan Club
Kennesaw Optimist
Kennesaw Town Center Kiwanis
Marietta Civitan Club
Marietta Kiwanis Club
Marietta Metro Rotary Club
Metro Marietta Kiwanis
North Cobb Rotary
West Cobb Rotary
Powder Springs Kiwanis
Woodstock Optimist
Atlanta Civitan Club

Atlanta Kiwanis
Midtown Rotary
Ansley Atlanta Kiwanis
Peachtree Kiwanis
Rotary Club of Atlanta
West End Rotary
Alpharetta Kiwanis
Roswell Kiwanis
Arborgate Condominium
Arden Area Association
Buckhead Forest Community Association
Chastain Park Civic Association
Garden Hills Civic Association
Friends of Tuxedo Park
Wilmar-Westminster Homeowners Association
Moores Mill Civic Association
Ponce Coalition
Poncey-Highland Neighborhood Association
Beacon Hill Homeowners Association
Briarwood Hills Homeowner Association
Brookcliff Homeowners Association
Cambria Hills Homeowners Association
Northwest Atlanta Kiwanis
Chattahoochee Plantation Community Association
SouthStar Community Development Corporation

Youth Focused Organizations

4-H
Boy Scouts
Girl Scouts
Georgia Public Library Service
Captain Planet Foundation
Boys & Girls Clubs of Metro Atlanta
Project WET

Potential Business & Corporate Partnerships/Sponsorships

Businesses

Georgia Power
Home Depot
Coca-Cola
Lowe's Home Improvement
Kroger
Publix
ACE Hardware
McDonalds
Chick-Fil-A
BP AMOCO
QuicKTrip
Atlanta Gas Light
Georgia Pacific
Scientific Atlanta
Pikes Family Nurseries
Garden Ridge
Ben Carter Properties
Cecil B day Investment Company
CNM Associates
Dallas Medical Investors
CNN Center Ventures
Cobb Galleria Center
First Republic Company
Intersouth Properties, Inc.
Irt Property Company
JDN Structured Finance
MD Hodges Enterprises Inc.
Office Professionals LTd.
Turner Properties
Shaheen & Company LP
Radnor/Smith Partnership
Selig Enterprises Inc.

Tusk Oil
Valacal Company
Ackerman Development
American Land & Energy Corp
Barbara J Alexander Reality
CGR Advisors
Carter & Associates
Compass Management & Leasing
Cornerstone Hospitality Group
Cousins Real Estate Corp
Equitable Real Estate Investment Management
Gables Reality Ltd. Partnership
Intown Properties
Jenny Pruitt & Associates Realtors
Johns Creek Technology Park
Laing Management Company
NPI Property Management Corp
Morris and Raper Realtors
Roberts Properties
Regent Partners Inc.
Realmark Holdings Corp
Roberts Properties Inc
Sterling Group
Success 2000 Reality Group
Sunlink Cooperation
Wilkinson Group, Inc.
Urban Systems Reality
Thomas Enterprises
Taylor & Mathis Inc.
Wilma Inc.
Abrams Properties Inc
Carter & Associates Enterprises
Gables Residential Trust
Hanson Properties East Inc.
Lecraw Julian & Company Inc.
Holder Corporation
Wildwood Associates
Westerra Windward Llc
Sansbury Corporation
American Home Equities
BellSouth Corporation
Roy Ashley & Associates, Inc.
Cingular Wireless
Earthlink
Trec Environmental
Duke-Weeks Realty Corporation
Southern Company
Harold A. Dawson Company, Inc.
Thomas Alan Homes, LLC
Bank of America, Mid-South Banking Group
Northwood Medical Specialists
E. Smith Heating & Air
Environmental and Land Use Group, Alston and Bird
American Plastics Council
AT&T
Cox Media
Beaulieu of America
Dart Container Corporation
Fibres International
Peachtree Residential Properties
Pactiv Corporation
Simon Property Group
Decatur First Bank
First Union
Southtrust
SunTrust
Wachovia
Wal-Mart
Turner Broadcasting System (TBS)
Killearn, Inc.
Post Properties, Inc.
Williams-Russell and Johnson, Inc.
The Draper Group
Cushman & Wakefield
Southwire Company
REMAX
AT&T
Carter & Associates, LLC
Cox Enterprises, Inc.
Ernst & Young
Ford Motor Company
Georgia Natural Gas
Highland Homes, Inc.
Jacoby Development, Inc.
Kimberly Clark Corporation
King & Spalding
Nortel Networks
AGL Resources
Ford Motor Company
General Motors Corporation
MARTA

United Parcel Service (UPS)
Turner Broadcasting
ZEP Manufacturing
FedEx
Target
Children's Healthcare
Emory Health System
Promina

Theme Parks / Commercial Attractions

White Water Theme Park
Six Flags
Stone Mountain
Grand Prix
American Adventures
Lake Lanier Islands

Sports Teams

Atlanta Braves
Atlanta Hawks
Atlanta Thrashers
Atlanta Falcons
Atlanta Beat

Appendix G – Wastewater and Water Supply Solution Withdrawals and Discharges

Chattahoochee Basin

Wastewater and Water Supply Solution

Withdrawal and Discharges

Water Body	HUC	County	Plant	2030 Withdrawals AA (MGD)	2030 Discharge AA (MGD)	TP (lbs/mo)	TSS (lbs/mo)	Fecals (#/mo)	BOD (lbs/mo)	NH3-N (lbs/mo)	DO (mg/L)
Lake Lanier	031300010801	Hall	Riverside and Lakeside WTPs	-42							
Lake Lanier	031300010801	Hall	Gainesville Linwood WRF		8.0	264	10,147	2.12E+11	5,885	1,015	7
Lake Lanier	031300010803	Hall	Gainesville Flat Creek WRF		17.6	580	22,323	4.65E+11	12,948	2,232	7
Lake Lanier	031300010804	Hall	Flowery Branch WPCP		5.6	185	7,103	1.48E+11	4,120	710	7
Lake Lanier	031300010806	Forsyth	New Forsyth/Cumming		14.4	475	18,265	3.81E+11	10,593	1,826	7
Lake Lanier	031300010807	Forsyth	Forsyth and Cumming WTPs	-46							
Lake Lanier	031300010809	Gwinnett	Lanier/Shoal Creek WTPs	-155							
Lake Lanier	031300010809	Gwinnett	Gwinnett F. Wayne Hill WRC		32.0	1,055	40,588	8.46E+11	23,541	4,059	7
Lake Lanier	031300010809	Gwinnett	Gwinnett Yellow River WRF		12.0	396	15,221	3.17E+11	8,828	1,522	7
Upper Chattahoochee River	031300010902	Forsyth	New Forsyth Southeast WRF		16.0	528	20,294	4.23E+11	11,771	2,029	7
Upper Chattahoochee River	031300010905	North Fulton	Atlanta/Fulton Co. WTP	-95							
Upper Chattahoochee River	031300010907	Gwinnett	Gwinnett Crooked Creek WRF		36.0	1,187	45,662	9.52E+11	26,484	4,566	7
Upper Chattahoochee River	031300010907	North Fulton	Fulton Johns Creek WRF		18.4	607	23,338	4.87E+11	13,536	2,334	7
Upper Chattahoochee River	031300010907	DeKalb	WTP	-128							
Upper Chattahoochee River	031300011102	North Fulton	Fulton Big Creek WRF		26.4	871	33,485	6.98E+11	19,421	3,349	7
Upper Chattahoochee River	031300011101	Cobb	CCMWA Quarles WTP	-54							
Upper Chattahoochee River	031300011106	Fulton/ Atlanta	Hemphill/Chattahoochee WTPs	-127							
Chattahoochee River	031300020101	Fulton/ Atlanta	Atlanta RM Clayton WRC		97.6	3,219	123,793	2.58E+12	71,800	12,379	7
Chattahoochee River	031300020101	Cobb	Cobb RL Sutton WRF		48.0	1,583	60,882	1.27E+12	35,312	6,088	7
Chattahoochee River	031300020103	Fulton/ Atlanta	Atlanta South River WRC		43.2	1,425	54,794	1.14E+12	31,780	5,479	7
Chattahoochee River	031300020103	DeKalb	DeKalb Polebridge WPCP		24.0	791	30,441	6.35E+11	17,656	3,044	7
Chattahoochee River	031300020103	Fulton/ Atlanta	Atlanta Utoy Creek WRC		35.2	1,161	44,647	9.31E+11	25,895	4,465	7
Chattahoochee River	031300020104	Cobb	Cobb South Cobb WRF		32.0	1,055	40,588	8.46E+11	23,541	4,059	7
Sweetwater Creek	031300020208	Fulton/ Atlanta	East Point WTP	-8							
Chattahoochee River	031300020301	South Fulton	Fulton Camp Creek WRF		19.2	633	24,353	5.08E+11	14,125	2,435	7
Chattahoochee River	031300020301	Douglas	Douglas Sweetwater Creek WWTP		4.8	158	6,088	1.27E+11	3,531	609	7
Bear Creek	031300020304	Douglas	Bear Creek WTP								
Chattahoochee River	031300020306	Douglas	Douglas South Central UWRF		9.6	317	12,176	2.54E+11	7,062	1,218	7
Dog River	031300020309	Douglas	Bear Creek WTP	-23							
Chattahoochee River	031300020401	Coweta	New West Coweta WWTP		8.0	264	10,147	2.12E+11	5,885	1,015	7
Cedar Creek Reservoir	031300020402	Coweta	Coweta Brown WTP	-6							
- - -	-	Coweta	Send to Meriwether County		1.6						

Etowah Basin

Wastewater and Water Supply Solution

Withdrawal and Discharges

Water Body	HUC	County	Plant	2030 Withdrawals AA (MGD)	2030 Discharge AA (MGD)	TP (lbs/mo)	TSS (lbs/mo)	Fecals (#/mo)	BOD (lbs/mo)	NH3-N (lbs/mo)	DO (mg/L)
Lewis Spring	031501030201	Bartow	Adairsville Lewis Spring WTP	-3							
Oothkalooge Creek	031501030202	Bartow	Adairsville North WPCP		2.4	79	3044	6.35E+10	1766	304	7
Etowah River	031501040601	Cherokee	Etowah River WTP	-17							
Etowah River	031501040601	Cherokee	New Northeast Etowah Facility		7.2	237	9132	1.9E+11	5297	913	7
Etowah River	031501040603	Cherokee	Canton WTP	-34							
Etowah River	031501040605	Cherokee	Canton WPCP		4.8	158	6088	1.27E+11	3531	609	7
Noonday Creek	031501040808	Cobb	Cobb Noonday Creek WWTP		16	528	20294	4.23E+11	11771	2029	7
Lake Allatoona	031501040809	Cherokee	Cherokee Rose Creek WWTP		13.6	448	17250	3.6E+11	10005	1725	7
Etowah River	031501040902	Paulding	Paulding Pumpkinvine Creek Reuse		6.4	211	8118	1.69E+11	4708	812	7
Lake Allatoona	031501040904	Cobb	Regional Wyckoff WTP	-120							
Lake Allatoona	031501040904	Bartow	Cartersville Walker WTP	-40							
Lake Allatoona	031501041004	Cobb	Cobb Northwest Cobb WWTP		9.6	317	12176	2.54E+11	7062	1218	7
Etowah River	031501041303	Bartow	Cartersville WPCP		21.6	712	27397	5.71E+11	15890	2740	7
Etowah River	031501041303	Bartow	Industrial WWTPs		1.6	53	2029	4.23E+10	1177	203	7
Etowah River	031501041506	Bartow	New West Bartow		3.2	106	4059	8.46E+10	2354	406	7
Lewis Spring	031501030201	Bartow	Adairsville Lewis Spring WTP	-3							
Oothkalooge Creek	031501030202	Bartow	Adairsville North WPCP		2.4	609	6088	5.52E+11	6088	1218	6
Etowah River	031501040601	Cherokee	Etowah River WTP	-17							
Etowah River	031501040601	Cherokee	New Northeast Etowah Facility		7.2	1826	18265	1.66E+12	18265	3653	6
Etowah River	031501040603	Cherokee	Canton WTP	-34							
Etowah River	031501040605	Cherokee	Canton WPCP		4.8	1218	12176	1.1E+12	12176	2435	6
Noonday Creek	031501040808	Cobb	Cobb Noonday Creek WWTP		16	4059	40588	3.68E+12	40588	8118	6
Lake Allatoona	031501040809	Cherokee	Cherokee Rose Creek WWTP		13.6	3450	34500	3.13E+12	34500	6900	6
Etowah River	031501040902	Paulding	Paulding Pumpkinvine Creek Reuse		6.4	1624	16235	1.47E+12	16235	3247	6
Lake Allatoona	031501040904	Cobb	Regional Wyckoff WTP	-120							
Lake Allatoona	031501040904	Bartow	Cartersville Walker WTP	-40							
Lake Allatoona	031501041004	Cobb	Cobb Northwest Cobb WWTP		9.6	2435	24353	2.21E+12	24353	4871	6
Etowah River	031501041303	Bartow	Cartersville WPCP		21.6	5479	54794	4.97E+12	54794	10959	6
Etowah River	031501041303	Bartow	Industrial WWTPs		1.6	406	4059	3.68E+11	4059	812	6
Etowah River	031501041506	Bartow	New West Bartow		3.2	812	8118	7.36E+11	8118	1624	6
Lewis Spring	031501030201	Bartow	Adairsville Lewis Spring WTP	-3							
Oothkalooge Creek	031501030202	Bartow	Adairsville North WPCP		2.4	3653	18265	5.52E+11	18265	12176	2
Etowah River	031501040601	Cherokee	Etowah River WTP	-17							
Etowah River	031501040601	Cherokee	New Northeast Etowah Facility		7.2	10959	54794	1.66E+12	54794	36529	2
Etowah River	031501040603	Cherokee	Canton WTP	-34							
Etowah River	031501040605	Cherokee	Canton WPCP		4.8	7306	36529	1.1E+12	36529	24353	2
Noonday Creek	031501040808	Cobb	Cobb Noonday Creek WWTP		16	24353	121764	3.68E+12	121764	81176	2
Lake Allatoona	031501040809	Cherokee	Cherokee Rose Creek WWTP		13.6	20700	103499	3.13E+12	103499	69000	2
Etowah River	031501040902	Paulding	Paulding Pumpkinvine Creek Reuse		6.4	9741	48706	1.47E+12	48706	32470	2
Lake Allatoona	031501040904	Cobb	Regional Wyckoff WTP	-120							
Lake Allatoona	031501040904	Bartow	Cartersville Walker WTP	-40							
Lake Allatoona	031501041004	Cobb	Cobb Northwest Cobb WWTP		9.6	14612	73058	2.21E+12	73058	48706	2
Etowah River	031501041303	Bartow	Cartersville WPCP		21.6	32876	164381	4.97E+12	164381	109588	2
Etowah River	031501041303	Bartow	Industrial WWTPs		1.6	2435	12176	3.68E+11	12176	8118	2
Etowah River	031501041506	Bartow	New West Bartow		3.2	4871	24353	7.36E+11	24353	16235	2

Flint Basin

Wastewater and Water Supply Solution

Withdrawal and Discharges

Water Body	HUC	County	Plant	2030 Withdrawals AA (MGD)	2030 Discharge AA (MGD)	TP (lbs/mo)	TSS (lbs/mo)	Fecals (#/mo)	BOD (lbs/mo)	NH3-N (lbs/mo)	DO (mg/L)
Flint River	031300050104	Clayton	Clayton JW Smith WTP	-12							
Flint River	031300050104	Clayton	Clayton Shoal Creek WRP - LAS (to Land)		3.2						
Flint River	031300050104	Fayette	South Fayette WTP	-8							
Bear Creek	031300050105	Henry	Henry Bear Creek LAS (to Land)		0.8						
Line Creek	031300050201	Coweta	Newnan Norred WTP	-8							
Line Creek	031300050203	Fayette	Fayette Crosstown WTP	-20							
Line Creek	031300050203	Fayette	Peachtree City Rockaway WPCP		8	264	10147	2.11554E+11	5885	1015	7
Whitewater Creek	031300050204	Fayette	Fayetteville Whitewater Creek WPCP		4.8	158	6,088	1.27E+11	3,531	609	7
Line Creek	031300050206	Coweta	New South Fayette WWTP		4.0	132	5,074	1.06E+11	2,943	507	7
White Oak Creek	031300050301	Coweta	Newnan Norred WTP								
White Oak Creek	031300050303	Coweta	New South Coweta WWTP		5.6	185	7,103	1.48E+11	4,120	710	7

Ocumlgee Basin

Wastewater and Water Supply Solution

Withdrawal and Discharges

Water Body	HUC	County	Plant	2030 Withdrawals AA (MGD)	2030 Discharge AA (MGD)	TP (lbs/mo)	TSS (lbs/mo)	Fecals (#/mo)	BOD (lbs/mo)	NH3-N (lbs/mo)	DO (mg/L)
South River	030701030105	DeKalb	DeKalb Polebridge WPCP		42.4	1,398	53,779	1.12E+12	31,192	5,378	7
Cotton Indian Creek	030701030201	Clayton	Clayton Northeast WRP		8.8	290	11,162	2.33E+11	6,474	1,116	7
Blalock Reservoir	030701030203	Clayton	Clayton Freeman Road WTP	-10							
Wetlands treatment	030701030203	Clayton	Clayton W.B. Casey WRP		19.2	633	24,353	5.08E+11	14,125	2,435	7
Little Cotton Indian Creek	030701030204	Clayton	Clayton W.J. Hopper WTP	-20							
Walnut Creek	030701030303	Henry	McDonough WTP	-2							
Walnut Creek	030701030303	Henry	New Henry Walnut Creek WRF		15.2	501	19279	4.0195E+11	11182	1928	7
Yellow River	030701030406	Gwinnett	Gwinnett Yellow River WRF		17.6	580	22,323	4.65E+11	12,948	2,232	7
Yellow River	030701030502	Rockdale	Quigg Branch WRF		12.0	396	15,221	3.17E+11	8,828	1,522	7
Big Haynes Creek	030701030505	Rockdale	Big Haynes WTP	-25							
Alcovy River	030701030704	Walton	Monroe WTP	-5							
Big Flat Creek	030701030706	Walton	Loganville WPCP		1.6	53	2,029	4.23E+10	1,177	203	7
Big Flat Creek	030701030706	Walton	New South Walton		3.2	106	4059	8.4622E+10	2354	406	7
Lake Varner	030701030708	Walton	New Newton/Walton WTP	-5							
Tussahaw Reservoir	030701030902	Henry	New Tussahaw WTP	-16							
Towaliga River	030701031103	Henry	Henry Towaliga WTP	-18							
Towaliga River Trib	030701031103	Henry	Henry Indian Creek LAS (to Land)		5.6						

Oconee Basin

Wastewater and Water Supply Solution

Withdrawal and Discharges

Water Body	HUC	County	Plant	2030 Withdrawals AA (MGD)	2030 Discharge AA (MGD)	TP (lbs/mo)	TSS (lbs/mo)	Fecals (#/mo)	BOD (lbs/mo)	NH3-N (lbs/mo)	DO (mg/L)
Cedar Creek	030701010402	Hall	New Hall Cedar Creek WTP	-7							
Jacks Creek Trib	030701010903	Walton	Monroe Jacks Creek WPCP		4.0	132	5,074	1.06E+11	2,943	507	7
Hard Labor Creek Reservoir	030701011302	Walton	New Hard Labor Creek WTP	-9							