

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-501	Ayden, Town of - WW/ Sewer Rehabilitation, Swift Creek	Pitt	Southern Coastal Plain

Amount requested:	\$420,000	Total Score:	92
Total Project Cost:	\$495,000	HB 1095 CC Score (Max 49):	45
% Match:	15		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Swift Creek
Waterbody Sensitivity: C, Sw, NSW, urban 303(d)

County Rank:	50	# Commercial:	62
Tier:	2	Linear ft Line:	3,100
Ability to Pay:	3.99	\$ / linear ft:	\$160
HUC:	\$33.52	CWMTF \$ / ft:	\$135
W/S Rate:	\$51.36	Volume (gpd) Addressed:	10,000
# Resid Served:	1,933	\$ / Gal:	\$49.50
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	110
Total \$ / Residence:	\$256	CWMTF \$ / lb N:	\$3,818

SCOPE OF WORK

~ The project proposes replacing some of the Town's dilapidated sanitary sewers. Existing piping is cracked/broken, has severe root intrusion at pipe joints, is susceptible to flood waters from the adjacent Swift Creek, and is being impacted by approximately 10,000 gpd of inflow/infiltration. Sewer lines proposed for replacement cross an unnamed tributary to Swift Creek and are located adjacent to Swift Creek. Ayden's wastewater is transported to the CMSD WWTP where it is treated and then discharged to Contentnea Creek. There were no SSO's from the sewer proposed for rehabilitation or from downstream CMSD sewers as a result of I/I flow from Ayden.

~ The project will reduce hydraulic loading at the CMSD WWTP, which discharges into Contentnea Creek (C, Sw, NSW, urban 303(d), rare aquatic species (S3), DCM exceptional wetlands) in the Neuse River basin. The reduction of I/I flow to the WWTP, will reduce effluent quantity and may improve effluent quality during heavy rainfall events and during periods of wet weather.

~ The project would consist of replacing 3100 lf of sewer, in the vicinity of Second Street at the easternmost section of the Town's corporate limits.

~ The application budget requests CWMTF funding for Construction Admin/Observation; Construction Contingency; and a portion of Construction;

~ The Town previously received a CWMTF grant 2004B-501 for \$300,000 for sewer replacement; 2005A-501 for \$178,000 for sewer replacement; 2005B-501 for \$501,000 for sewer replacement and work is in progress; and 2007-502 for \$403,000 for sewer replacement and work is in progress.

~ Matching funds of \$75,000 will be provided by the Town of Ayden using local match.

CONDITIONS

STAFF

~ 10/12/08: Staff does not support funding this project. Staff has concerns about the degree of water quality benefits. There were no SSO's from the sewer proposed for rehabilitation or from downstream CMSD sewers as a result of I/I flow from Ayden.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-501	Ayden, Town of - WW/ Sewer Rehabilitation, Swift Creek	Pitt	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-502	Bath, Town of - WW/ Spray Field Upgrades, Bath Creek	Beaufort	Northern Coastal Plain

Amount requested:	\$1,528,360	Total Score:	92
Total Project Cost:	\$2,028,360	HB 1095 CC Score (Max 49):	29
% Match:	25		

SUMMARY AND WATER QUALITY

River Basin: Tar-Pamlico

Stream Name: Bath Creek

Waterbody Sensitivity: SB, NSW, DCM exceptional wetlands-spotty

County Rank:	34	# Commercial:	26
Tier:	1	Linear ft Line:	
Ability to Pay :	7.26	\$ / linear ft:	
HUC:	\$70.81	CWMTF \$ / ft:	
W/S Rate:	\$51.92	Volume (gpd) Addressed:	40,000
# Resid Served:	161	\$ / Gal:	\$50.71
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	1,828
Total \$ / Residence:	\$12,599	CWMTF \$ / lb N:	\$836

SCOPE OF WORK

~ The Town currently disposes wastewater effluent to 2 fields from a facultative lagoon. The proposed project is a 40,000 gpd package treatment plant that can treat to reuse standards; a high rate infiltration system in one of the two spray fields; and a reclaimed water system for the Town. Plans include a reuse system to irrigate common areas in the Town, residential lawns, and possibly agricultural fields growing food for nonhuman consumption. The Town's existing WWTP was originally permitted for 40,000 gpd. The permit has been reduced to 22,000 gpd due to compliance issues and the Town is currently under a moratorium. DWQ commented in support of this project.

~ The project will improve the WWTP effluent quality, reduce ponding on the effluent disposal fields and reduce pollutant loading in Carter Creek and Back Creek (SB, NSW, DCM exceptional wetlands) in the Tar-Pamlico River basin.

~ The project would consist of a 40,000 gpd package treatment plant with the ability to treat to reclaimed water standard; a new infiltration basin; upset storage; convert existing facultative lagoon to storage; and provide reclaimed water to areas in Town. The Town has reuse disposal commitments from an elementary school, Town's athletic fields, and 2 farms.

~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Land Surveying; Construction; Construction Admin/Observation; Construction Contingency; and Project Admin. Costs.

~ The Town has not previously received a CWMTF grant.

~ Matching funds of \$500,000 will be provided by the Town of Bath using a Rural Center grant, which the Town has requested. The Town's application indicates that Design and Permitting will start after CWMTF award. Design & Permitting and Land Surveying is shown in the Budget Template as \$155,725. If this were funded at the same 75% amount as the proposed overall budget, the CWMTF grant would be approximately \$117,000 and the Town's match would be \$38,725.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-502	Bath, Town of - WW/ Spray Field Upgrades, Bath Creek	Beaufort	Northern Coastal Plain

CONDITIONS

- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.
- ~ Application indicates that the current average water/sewer bill is below the HUC threshold for the Town of Bath. The Town must provide a resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

STAFF

- ~ Staff Recommendation 10/12/08: Staff supports funding up to \$117,000 for Engineering Design & Permitting and Land Surveying. The Town of Bath would provide \$38,725 match.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-503	Beaufort, Town of - WW/ WWTP Construction, Taylor's Creek	Carteret	Southern Coastal Plain

Amount requested:	\$1,500,000	Total Score:	107
Total Project Cost:	\$17,873,000	HB 1095 CC Score (Max 49):	37
% Match:	83 (based on \$3M total CWMTF funding for this project)		

SUMMARY AND WATER QUALITY

River Basin: White Oak
Stream Name: Taylor's Creek
Waterbody Sensitivity: urban 303(d) Back Creek, shellfish waters, SC, SHNA, DCM exceptional wetlands

County Rank:	91	# Commercial:	296
Tier:	3	Linear ft Line:	
Ability to Pay:	6.14	\$ / linear ft:	
HUC:	\$40.45	CWMTF \$ / ft:	
W/S Rate:	\$94.86	Volume (gpd) Addressed:	1,500,000
# Resid Served:	2,646	\$ / Gal:	\$11.92
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	68,500
Total \$ / Residence:	\$6,755	CWMTF \$ / lb N:	\$44

SCOPE OF WORK

~ The project proposes treatment plant improvements that will improve effluent quality to reuse standards. There will be no increase in the Town of Beaufort's WWTP's permitted capacity. The Town also has extensive ongoing sewer system rehabilitation work, which is not a part of the work in this project application.

~ The project will improve the WWTP effluent quality and reduce pollutant loading in Taylor Creek (Urban 303(d), shellfish waters, SC, SHNA, DCM exceptional wetlands).

~ The application budget requests CWMTF funding for a portion of the wastewater treatment facilities construction.

~ The Town previously received CWMTF grant (2007-503) for \$1,500,000 for the same project work as this application; and CWMTF grant (2006A-801) for \$50,000 for stormwater planning.

~ Matching funds of \$14,873,000 will be provided by the Town of Beaufort using \$700,000 local cash and a NCCG&L loan. The Town has been approved for a \$11.1 NCCG&L loan and has applied for the additional amount. The Town has also received a \$500,000 grant from Rural Center.

CONDITIONS

~ Applicant must demonstrate that it has expended 100% of local matching funds and at least 90% of all other matching funds including matching grant and/or loan funds before contingency costs can be reimbursed by CWMTF.

~ Project improvements to the WWTP must provide treatment to reuse quality limits, including tertiary filtration.

STAFF

~ 10/12/08: Staff recommends funding this project up to the requested amount of \$1,500,000. The Town has indicated that the design is complete, permits have been obtained, and construction began this Summer.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-503	Beaufort, Town of - WW/ WWTP Construction, Taylor's Creek	Carteret	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-504	Benson, Town of - WW/ Reuse System Construction, Hannah Creek	Johnston	Eastern Piedmont

Amount requested:	\$1,200,500	Total Score:	106
Total Project Cost:	\$2,803,500	HB 1095 CC Score (Max 49):	37
% Match:	57		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Hannah Creek
Waterbody Sensitivity: C, NSW, 303(d), DWS-higher

County Rank:	83	# Commercial:	1
Tier:	3	Linear ft Line:	42,500
Ability to Pay:	3.87	\$ / linear ft:	\$66
HUC:	\$37.78	CWMTF \$ / ft:	\$28
W/S Rate:	\$42.25	Volume (gpd) Addressed:	325,000
# Resid Served:	1,108	\$ / Gal:	\$8.63
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	2,970
Total \$ / Residence:	\$2,530	CWMTF \$ / lb N:	\$404

SCOPE OF WORK

- ~ The project proposes expanding the existing Town of Benson reclaimed wastewater disposal system by 325,000 gpd. The Town currently supplies approximately 5000 gpd of reuse quality water to athletic fields at South Johnston Co. High School. The project is consistent with DWQ's basinwide goal to reduce nitrogen in effluent that is discharged in the Neuse River basin. DWQ's NPDES Unit commented in support of the project.
- ~ The project consists of constructing 42,500 l.f. of 10" force main from their WWTP, a pump station, and necessary connections to CPC Wholesale Nursery.
- ~ The project will reduce the Town's WWTP discharge and reduce nutrient and pollutant loading in Hannah Creek (C, NSW, 303(d), DWS-higher) in the Neuse River basin.
- ~ The application budget requests CWMTF funding for a portion of Construction.
- ~ The Town previously received CWMTF grant (2007-504) for \$132,000 for only Design and Permitting for the same project work as this application.
- ~ Matching funds of \$1,603,000 will be provided by the Town of Benson. The Town has been awarded a \$886,000 USDA loan and a \$750,000 NC Rural Center grant, and \$33,000 of the USDA and RC funding is being used as match for the CWMTF 2007-504 grant.

CONDITIONS

STAFF

- ~ 10/12/08: Staff recommends funding this project up to the requested amount of \$1,201,000. The Town indicated design 1% complete when application was submitted that they expect design complete June 2008 and permits obtained, by August 2008.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-505	Boonville, Town of - WW/ Lift Station Upgrades, Tanyard Creek	Yadkin	Northern Mountains/Western Piedmont

<i>Amount requested:</i>	\$41,000	<i>Total Score:</i>	52
<i>Total Project Cost:</i>	\$82,000	<i>HB 1095 CC Score (Max 49):</i>	20
<i>% Match:</i>	50		

SUMMARY AND WATER QUALITY

River Basin: Yadkin
 Stream Name: Tanyard Creek
 Waterbody Sensitivity: C

County Rank:	62	# Commercial:	0
Tier:	2	Linear ft Line:	1,000
Ability to Pay:	4.41	\$ / linear ft:	\$82
HUC:	\$44.87	CWMTF \$ / ft:	\$41
W/S Rate:	\$54.28	Volume (gpd) Addressed:	700
# Resid Served:	1,144	\$ / Gal:	\$117.14
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:	\$72	CWMTF \$ / lb N:	

SCOPE OF WORK

- ~ The project proposes installing 1000 lf of gravity sewer and eliminating a pump station that is located on Greenwood Road. The Town was issued an NOV (10/11/07) for the pump station but it does not appear to be related to spill related issues. The pump station only has one pump, which means there is no redundancy and the station does not meet NCDWQ's minimum design requirements.
- ~ The project will eliminate the pump station reliability issue and overflows, which may have occurred during pump failure, that could have impacted Tanyard Creek (C) in the Yadkin River basin.
- ~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Land Surveying; Construction; Construction Admin/Observation; Construction Contingency; and Project Admin. Costs.
- ~ The Town has not previously received a CWMTF grant.
- ~ Matching funds of \$41,000 will be provided by the Town of Boonville using a Rural Center grant, which the Town has requested.

CONDITIONS

STAFF

- ~ 10/12/08: Staff supports funding this project up to the requested amount of \$41,000. The Town indicated design was 25% complete when the application was submitted.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-506	Broadway, Town of - WW/ Dechlorination system, Daniels Creek	Lee	Southern Coastal Plain

<i>Amount requested:</i>	\$60,000	<i>Total Score:</i>	70
<i>Total Project Cost:</i>	\$100,000	<i>HB 1095 CC Score (Max 49):</i>	29
<i>% Match:</i>	40		

SUMMARY AND WATER QUALITY

River Basin:	Cape Fear	# Commercial:	0
Stream Name:	Daniels Creek	Linear ft Line:	
Waterbody Sensitivity:	C, DWS-higher	\$ / linear ft:	
County Rank:	72	CWMTF \$ / ft:	
Tier:	2	Volume (gpd) Addressed:	144,000
Ability to Pay:	7.90	\$ / Gal:	\$0.69
HUC:	\$75.08	Lbs/yr Nitrogen Reduced:	
W/S Rate:	\$69.45	CWMTF \$ / lb N:	
# Resid Served:	481		
% Septic Failing:	NA		
Total \$ / Residence:	\$208		

SCOPE OF WORK

- ~ The project proposes installing a de-chlorination system at the Town's WWTP. The recently issued NPDES permit requires monitoring chlorine residual and imposes a chlorine residual effluent limit. The new NPDES permit gives the Town 24 months to implement improvements to meet chlorine residual permit limits. The Town considered replacing the existing chlorine disinfection system with an ultraviolet system but decided that the de-chlorination system would be more cost effective.
- ~ The project will improve the Town's WWTP effluent by reducing the chlorine residual and improve water quality in Daniels Creek (C,DWS-higher) in the Cape Fear River basin.
- ~ The application budget requests CWMTF funding for Engineering Design & Permitting; Construction Admin/Observation; Construction Contingency; and a portion of Construction.
- ~ The Town previously received a CWMTF grant (2006B-804) for \$40,000 to rehabilitate 9000 lf of sewers. The work is in progress.
- ~ Matching funds of \$10,000 will be provided by the Town of Broadway using available local match.

CONDITIONS

- ~ Application indicates that the current average water/sewer bill is below the HUC threshold. Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

STAFF

- ~ 10/12/08: Staff does not support funding this project because the Town would have to provide the facilities anyway to meet permit limits and they were given a 24 month advance notice of the requirement.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-507	Candor, Town of - WW/ Pump Station Upgrade, Drowning Creek	Montgomery	Northern Mt./ Western Piedmont

Amount requested:	\$53,500	Total Score:	84
Total Project Cost:	\$63,500	HB 1095 CC Score (Max 49):	24
% Match:	16		

SUMMARY AND WATER QUALITY

River Basin: Lumber
 Stream Name: Drowning Creek
 Waterbody Sensitivity: WS II, Sw, State Sign. Aquatic Habitat, SNHA

County Rank:	28	# Commercial:	20
Tier:	1	Linear ft Line:	
Ability to Pay:	3.97	\$ / linear ft:	
HUC:	\$53.37	CWMTF \$ / ft:	
W/S Rate:	\$52.84	Volume (gpd) Addressed:	20,000
# Resid Served:	271	\$ / Gal:	\$3.18
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	7
Total \$ / Residence:	\$234	CWMTF \$ / lb N:	\$7,643

SCOPE OF WORK

- ~ The project proposes replacing the existing Whiskey Road wastewater pump station. The pump station capacity is approximately 55 gpm and the average daily flow is approximately 10,500 gpd. The application indicates that the pump station fails sometimes and has overflowed to nearby surface waters. DWQ commented in support of the project.
- ~ The project will mitigate overflows from the Whiskey Road pump station and reduce pollutant loading in Drowning Creek (WS II, Sw, State Sign. Aquatic Habitat, SNHA) in the Lumber River basin.
- ~ The application budget requests CWMTF funding for Engineering Design & Permitting; Construction; and Construction Admin/Observation.
- ~ The Town has not previously received a CWMTF grant.
- ~ Matching funds of \$10,000 will be provided by the Town of Candor using Local Match.

CONDITIONS

- ~ Application indicates that the current average water/sewer bill is below the HUC threshold for the Town of Candor. Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

STAFF

- ~ 10/12/08: Staff supports funding this project up to the requested amount of \$54,000. The Town indicated design and permitting will be started after the CWMTF grant is awarded. Since it is a pump station replacement design and permitting should be minimal.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-508	Chadbourn, Town of - WW/ Sewer Rehabilitation, Soules Swamp	Columbus	Southern Coastal Plain

Amount requested:	\$1,204,096	Total Score:	71
Total Project Cost:	\$1,397,536	HB 1095 CC Score (Max 49):	39
% Match:	14		

SUMMARY AND WATER QUALITY

River Basin: Lumber
 Stream Name: Soules Swamp
 Waterbody Sensitivity: C, Sw, DCM exceptional wetlands

County Rank:	9	# Commercial:	0
Tier:	1	Linear ft Line:	7,100
Ability to Pay:	2.86	\$ / linear ft:	\$197
HUC:	\$34.26	CWMTF \$ / ft:	\$170
W/S Rate:	\$47.69	Volume (gpd) Addressed:	68,000
# Resid Served:	70	\$ / Gal:	\$20.55
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	394
Total \$ / Residence:	\$19,965	CWMTF \$ / lb N:	\$3,056

SCOPE OF WORK

- ~ The project proposes replacing, rehabilitating, and cleaning some of the Town's sewer mains and performing sewer video inspection of some sewers. The sewer system has experienced overflows and the WWTP has received NOV's for exceeding the NPDES permit limits.
- ~ The project will mitigate overflows and also reduce hydraulic loading at the Town's WWTP. The I/I reduction would reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality in Soules Swamp (C, Sw, DCM exceptional wetlands).
- ~ The project would consist of replacing 4100 lf of 8-inch sewers, 9 manholes, and 50 service taps; performing 5 point repairs; and cleaning/video inspection of 3000 lf of gravity sewers.
- ~ The application budget requests CWMTF funding for Engineering Design & Permitting, Construction Contingency, and Legal Costs; and for a portion of Construction, Construction Admin/Observation, and Grant Recipients Admin. Costs.
- ~ The Town previously received a CWMTF grant (1998A-508) for \$1,312,000 to rehabilitate sewers and remove I/I flow.
- ~ Matching funds of \$193,440 will be provided by the Town of Chadbourn using a NC Rural Center grant.

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$1,204,096. Application indicates Design & Permitting will start after CWMTF grant award. Design & Permitting usually does not take long to complete for sewer rehabilitation projects.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-509	Clarkton, Town of - WW/ WWTP Upgrades, Septic Tanks, Brown Marsh Swamp	Bladen	Southern Coastal Plain

Amount requested:	\$500,000	Total Score:	101
Total Project Cost:	\$1,310,000	HB 1095 CC Score (Max 49):	42
% Match:	62		

SUMMARY AND WATER QUALITY

River Basin: Lumber
 Stream Name: Brown Marsh Swamp
 Waterbody Sensitivity: C, Sw, DCM exceptional wetlands

County Rank:	15	# Commercial:	25
Tier:	1	Linear ft Line:	875
Ability to Pay:	3.61	\$ / linear ft:	\$74
HUC:	\$31.06	CWMTF \$ / ft:	\$0
W/S Rate:	\$50.73	Volume (gpd) Addressed:	243,360
# Resid Served:	408	\$ / Gal:	\$5.38
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	11,449
Total \$ / Residence:	\$3,211	CWMTF \$ / lb N:	\$44

SCOPE OF WORK

- ~ The project proposes treatment plant improvements that will improve effluent quality to reuse standards. There will be no increase in the Town of Clarkton WWTP's permitted capacity. The WWTP is operating under a SOC now. Up to 130,000 gpd of the effluent will be permitted as conjunctive reuse and land disposed. The Town already made some improvements to the WWTP, however, the facility still does not meet permit limits with adequate reliability. The project will also provide gravity sewer that will eliminate 14 failing septic systems.
- ~ The project will eliminate failing septic systems, and the project will improve the WWTP effluent quality and reduce pollutant loading in Brown Marsh Swamp (C, Sw, DCM exceptional wetlands) in the Lumber River basin.
- ~ The project consists of WWTP improvements: filtration units, curtain walls, UV disinfection, irrigation pump, reel gun, and irrigation piping. The project also includes 875 lf of 8-inch sewers to serve 14 homes in 2 residential areas on Roscoe Lennon Dr. and Tina Lane.
- ~ The application budget requests CWMTF funding for a portion of Construction of WWTP improvements; Construction Admin/Observation; Construction Contingency; and Project Admin. Costs.
- ~ The Town previously received CWMTF grant 2003A-503 for \$185,000 for design and permitting for WWTP improvements. The project Preliminary Engineering Report was submitted to review agencies for comments. The project was subsequently revised in response to agency comments to implement the lowest cost alternative.
- ~ Matching funds of \$810,000 will be provided by the Town of Clarkton using \$310,000 Local Match, and a \$500,000 Rural Center grant, which the Town has secured.

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$500,000. The Town indicated design 25% when application submitted and completion expected by July 1. Since no expansion of flow, only an Authorization-to-Construct will be needed and should not take a long to obtain. Permits have been obtained for the sewer project.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-509	Clarkton, Town of - WW/ WWTP Upgrades, Septic Tanks, Brown Marsh Swamp	Bladen	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-510	Columbia, Town of - WW/ Sewer Rehabilitation, Scuppernong River	Tyrrell	Northern Coastal Plain

Amount requested:	\$400,000	Total Score:	87
Total Project Cost:	\$500,000	HB 1095 CC Score (Max 49):	40
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin: Pasquotank
Stream Name: Scuppernong River
Waterbody Sensitivity: SC, ?303(d), rare aquatic species (S3), NHSA

County Rank:	28	# Commercial:	10
Tier:	1	Linear ft Line:	2,650
Ability to Pay:	2.75	\$ / linear ft:	\$189
HUC:	\$28.57	CWMTF \$ / ft:	\$151
W/S Rate:	\$34.35	Volume (gpd) Addressed:	12,000
# Resid Served:	459	\$ / Gal:	\$41.67
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	131
Total \$ / Residence:	\$1,089	CWMTF \$ / lb N:	\$3,053

SCOPE OF WORK

- ~ The project proposes replacing some of the Town's sewer mains to reduce inflow/infiltration, which is negatively impacting the Town's WWTP operation. Also, the WWTP flow sometimes exceeds the NPDES flow limit during wet weather.
- ~ The project will mitigate overflows and also reduce hydraulic loading at the Town's WWTP, which would reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality in the Scuppernong River (SC, 303(d), rare aquatic species (S3), NHSA) in the Pasquotank River basin.
- ~ The project would consist of replacing 2650 lf of 8-inch sewers
- ~ The application budget requests CWMTF funding for Construction and a portion of Construction Contingency.
- ~ The Town has not previously received a CWMTF grant.
- ~ Matching funds of \$100,000 will be provided by the Town of Columbia using Local Match, which is available. If the Town receives a CWMTF grant, they may apply for Rural Center funding to expand the scope of the project.

CONDITIONS

STAFF

- ~ 10/12/08: Staff supports funding this project up to the requested amount of \$400,000. Application indicates Design & Permitting will start after CWMTF grant award. Design and permitting usually does not take long to complete for sewer rehabilitation projects.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-511	Contentnea Metropolitan Sewer District - WW/ Force Main Rehabilitation, Contentnea Creek	Pitt	Southern Coastal Plain

<i>Amount requested:</i>	\$400,000	<i>Total Score:</i>	91
<i>Total Project Cost:</i>	\$500,000	<i>HB 1095 CC Score (Max 49):</i>	43
<i>% Match:</i>	20		

SUMMARY AND WATER QUALITY

River Basin: Neuse
 Stream Name: Contentnea Creek
 Waterbody Sensitivity: C, Sw, NSW, 303(d),rare aquatic species (S3)

County Rank:	50	# Commercial:	162
Tier:	2	Linear ft Line:	
Ability to Pay:	21.28	\$ / linear ft:	
HUC:	\$43.98	CWMTF \$ / ft:	
W/S Rate:	\$45.51	Volume (gpd) Addressed:	584,000
# Resid Served:	5,481	\$ / Gal:	\$0.86
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	195
Total \$ / Residence:	\$91	CWMTF \$ / lb N:	\$2,051

SCOPE OF WORK

- ~ The project proposes replacing air release valve/manhole assemblies; replacing two check valves and vaults. The air release valves leak raw wastewater. The check valves, which are inoperable, will be moved further from Contentnea Creek and out of the road right-of-way.
- ~ The project will mitigate leakage of raw sewage and reduce the risk of overflows at pump stations and improve water quality in Contentnea Creek (C, Sw, NSW, 303(d), rare aquatic species (S3)) in the Neuse River basin.
- ~ The project would consist of replacing 14 air release valve/manhole assemblies; replacing a 10-inch check valve and vault; and replacing a 20-inch check valve and vault.
- ~ The application budget requests CWMTF funding for Construction Admin/Observation; Construction Contingency; and a portion of Engineering Design & Permitting; and Construction.
- ~ CMSD previously received a CWMTF grant 1998A-507 for \$720,000 for relining sewers; 2004B-505 for \$962,000 to rehabilitate sewers; and grant 2007-508 for \$232,000 for design of improvements to CMSD's WWTP.
- ~ Matching funds of \$100,000 will be provided by CMSD using local match, which is available.

CONDITIONS

STAFF

- ~ 10/12/08: Staff supports funding this project up to the requested amount of \$400,000. Application indicates Design & Permitting will start after CWMTF grant award. Design and permitting usually does not take long to complete for sewer rehabilitation projects.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-511	Contentnea Metropolitan Sewer District - WW/ Force Main Rehabilitation, Contentnea Creek	Pitt	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-512	Conway, Town of - WW/ Sewer Rehabilitation, Kirby's Creek	Northampton	Northern Coastal Plain

Amount requested:	\$1,611,850	Total Score:	84
Total Project Cost:	\$2,531,850	HB 1095 CC Score (Max 49):	36
% Match:	36		

SUMMARY AND WATER QUALITY

River Basin: Chowan

Stream Name: Kirby's Creek

Waterbody Sensitivity: C, NSW, State significant aquatic habitat, DCM exceptional wetlands

County Rank:	13	# Commercial:	2
Tier:	1	Linear ft Line:	32,000
Ability to Pay:	3.90	\$ / linear ft:	\$79
HUC:	\$32.11	CWMTF \$ / ft:	\$50
W/S Rate:	\$37.50	Volume (gpd) Addressed:	45,548
# Resid Served:	450	\$ / Gal:	\$55.59
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	499
Total \$ / Residence:	\$5,626	CWMTF \$ / lb N:	\$3,230

SCOPE OF WORK

~ The project proposes rehabilitating sewers to reduce I/I flow to improve WWTP and sprayfields performance. The Town's WWTP is out of compliance with flow limits and runoff of from the sprayfields during wet weather. Town has received NOV's. As separate project, the Town has an ongoing effort to upgrade their pump stations and provide emergency generators to improve the collection system performance. DWQ commented in support of the project.

~ The project will reduce hydraulic loading at the Town's WWTP, which disposes effluent by spray irrigation. The I/I reduction will reduce runoff from the sprayfields, improve treatment at the WWTP, improve effluent quality during periods of high I/I and improve water quality in Indian Creek and Kirby's Creek (C, NSW, State sign aquatic habitat, DCM exceptional wetlands) in the Chowan River basin.

~ The project would consist of rehabilitating approximately 32,000 lf of 8-inch sewers; replacing approximately 600 lf of 8-inch sewer; rehabilitate 1000 vertical feet of manholes and 200 sewer services.

~ The application budget requests CWMTF funding for Construction Contingency and a portion of Construction and Project Administration.

~ The Town has not previously received a CWMTF grant.

~ Matching funds of \$920,000 will be provided by the Town of Conway using \$287,037 local match and a \$632,962 Rural Center grant, which the Town reapplied for in July.

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$1,612,000. The Consultant's 8/17/08 email indicated design is 25% complete.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-513	Dublin, Town of - WW/ Sewer Rehabilitation, Bakers Creek	Bladen	Southern Coastal Plain

Amount requested:	\$208,270	Total Score:	79
Total Project Cost:	\$339,175	HB 1095 CC Score (Max 49):	37
% Match:	39		

SUMMARY AND WATER QUALITY

River Basin: Cape Fear
 Stream Name: Bakers Creek
 Waterbody Sensitivity: C, DWS-moderate

County Rank:	15	# Commercial:	43
Tier:	1	Linear ft Line:	6,400
Ability to Pay:	4.07	\$ / linear ft:	\$53
HUC:	\$38.85	CWMTF \$ / ft:	\$33
W/S Rate:	\$70.81	Volume (gpd) Addressed:	13,000
# Resid Served:	213	\$ / Gal:	\$26.09
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	142
Total \$ / Residence:	\$1,592	CWMTF \$ / lb N:	\$1,467

SCOPE OF WORK

- ~ The project proposes rehabilitating and cleaning some of the Town's sewer mains and service connections. The Town experiences problems due to high flow but does not have documented SSO's. The Town's wastewater is transported to the Elizabethtown WWTP by way of the Elizabethtown sewer system, which has 6 SSO's since 2004. One of these SSO's, which occurred in 2006, may have been partially due to Dublin's flow. Dublin's flow enters the Elizabethtown collection system on the west side of Elizabethtown and then flows all the way through the collection system to the WWTP on the east side of Town. DWQ commented in support of the project.
- ~ The project will reduce the potential for spills that would impact Bomill Creek (C, DWS-moderate) in the Cape Fear River basin. The project will reduce hydraulic loading at the Town of Elizabethtown's WWTP and may mitigate overflows in the Elizabethtown sewer system. The WWTP discharges in the Cape Fear River. The reduction of I/I flow to the WWTP, will reduce effluent quantity and may improve effluent quality during heavy rainfall events and during periods of wet weather.
- ~ The project would consist of rehabilitating 5425 lf of sewers by sliplining; clear roots from 975 lf of sewers; repair manholes; perform 10 sewer line point repairs; and repair 11 sewer service connections.
- ~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; Construction Contingency; and Project Administration costs.
- ~ The Town has not previously received a CWMTF grant.
- ~ Matching funds of \$130,905 will be provided by the Town of Dublin using \$35,000 local match and a \$95,905 NC Rural Center grant, which the Town has received.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-513	Dublin, Town of - WW/ Sewer Rehabilitation, Bakers Creek	Bladen	Southern Coastal Plain

CONDITIONS

STAFF

~ 10/12/08: Staff does not support funding this project. Staff has concerns about the degree of water quality benefits. There were no SSO's from the sewer proposed for rehabilitation and only one SSO downstream in Elizabethtown, which occurred in 2006.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-514	Enfield, Town of - WW/ Sewer Rehabilitation & Septic Tanks, Fishing Creek	Halifax	Northern Coastal Plain

Amount requested:	\$1,717,990	Total Score:	78
Total Project Cost:	\$2,014,955	HB 1095 CC Score (Max 49):	37
% Match:	15		

SUMMARY AND WATER QUALITY

River Basin: Tar-Pamlico

Stream Name: Fishing Creek

Waterbody Sensitivity: C, NSW, rare aquatic species (S1G1), Nationally sign. aq habitat, DWS-higher, DCM exceptional wetlands

County Rank:	2	# Commercial:	0
Tier:	1	Linear ft Line:	11,750
Ability to Pay:	2.76	\$ / linear ft:	\$171
HUC:	\$27.49	CWMTF \$ / ft:	\$146
W/S Rate:	\$76.78	Volume (gpd) Addressed:	41,446
# Resid Served:	206	\$ / Gal:	\$48.62
% Septic Failing:	19%	Lbs/yr Nitrogen Reduced:	1,768
Total \$ / Residence:	\$9,781	CWMTF \$ / lb N:	\$972

SCOPE OF WORK

~ The project proposes replacing some of the Town's sewer mains; rerouting some flow to serve 6 residences, use one pump station more efficiently, and eliminate another pump station; and installing sewers to serve 36 properties, which will eliminate at least 3 failing septic systems, 4 straight pipe discharges, and 29 systems that may not be failing. Excessive I/I causes treatment problems at the Town's WWTP and the Town has been issued NOV's.

~ The project will reduce hydraulic loading at the Town's WWTP, reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality in Fishing Creek (C, NSW, rare aquatic species (S1G1), Nationally sign. aq habitat, DWS-higher, DCM exceptional wetlands) in the Tar Pamlico River basin. The project will eliminate failing septic systems and straight pipe discharges, which will improve water quality in Fishing Creek also.

~ The project would consist of replacing 8090 lf of 8-inch sewers, 45 manholes and 164 sewer taps; and installing 3660 lf of 8-inch sewers to serve 42 homes.

~ The application budget requests CWMTF funding for Engineering Design & Permitting and Construction Contingency; and a portion of Construction, Construction Observation/Administration, Legal Costs, and Project Administration.

~ The Town previously received CWMTF grant 2005A-503 for \$797,000 to rehabilitate sewers; eliminate straight pipes, privies, and failing septic systems; and install a reuse system at the Town's WWTP. The project had a cost overrun and CWMTF has provided an additional \$213,000 funding.

~ Matching funds of \$296,965 will be provided by the Town of Enfield using a Rural Center grant. The Town's application indicates that Design and Permitting will start after CWMTF grant award. CWMTF funding would be \$24,740 for Design & Permitting for the Septic System Elimination portion of the project if it was funded at the same 85% funding as the overall project request.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-514	Enfield, Town of - WW/ Sewer Rehabilitation & Septic Tanks, Fishing Creek	Halifax	Northern Coastal Plain

CONDITIONS

- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

- ~ 10/12/08: The Town's application indicates that Design and Permitting will start after CWMTF award. Staff supports funding up to the requested amount of \$1,368,000 for the I/I design and construction. Staff recommends \$24,740 funding Engineering Design & Permitting for the Septic System Elimination. The total recommended funding amount is \$1,393,000. The Town's match would be \$197,474 for the I/I work and \$4276 for Design & Permitting for the Septic System Elimination for a total match of \$201,750.
- ~ The cost per residence for rerouting some flow to serve 6 residences and installing sewers to serve 36 properties is \$449,708/42 residences = \$10,707/residence.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-515	Environmental Defense - WW/ Swine Waste Processing Facility	Regional	Statewide/Regional

Amount requested:	\$2,997,693	Total Score:	0
Total Project Cost:	\$5,097,693	HB 1095 CC Score (Max 49):	
% Match:	41		

SUMMARY AND WATER QUALITY

River Basin: Regional

Stream Name: na

Waterbody Sensitivity:

County Rank:

Tier:

Ability to Pay :

HUC:

W/S Rate:

Resid Served:

% Septic Failing:

Total \$ / Residence:

Commercial:

Linear ft Line:

\$ / linear ft:

CWMTF \$ / ft:

Volume (gpd) Addressed:

\$ / Gal:

Lbs/yr Nitrogen Reduced:

CWMTF \$ / lb N:

SCOPE OF WORK

CONDITIONS

STAFF

~ Staff does not support funding this project. The proposed project is not within the scope of the activities that CWMTF funds. Direct WQ benefits are not readily apparent.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-516	Fremont, Town of - WW/ Sprayfield Rehabilitation, Aycock Creek	Wayne	Southern Coastal Plain

Amount requested:	\$504,111	Total Score:	66
Total Project Cost:	\$1,462,111	HB 1095 CC Score (Max 49):	32
% Match:	66		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Aycock Creek
Waterbody Sensitivity: C, Sw, NSW

County Rank:	35	# Commercial:	9
Tier:	1	Linear ft Line:	
Ability to Pay:	4.75	\$ / linear ft:	
HUC:	\$35.96	CWMTF \$ / ft:	
W/S Rate:	\$73.37	Volume (gpd) Addressed:	120,000
# Resid Served:	663	\$ / Gal:	\$12.18
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	1,314
Total \$ / Residence:	\$2,205	CWMTF \$ / lb N:	\$384

SCOPE OF WORK

- ~ The project proposes rehabilitating an existing 43 acre sprayfield. The Town previously had problems with the sprayfield and in 2003 Fremont became part of a regional system, along with Eureka, and abandoned their sprayfield. The main reason for resuming disposing effluent at the Town's sprayfield is that the Town believes it will be more economical than sending wastewater to Goldsboro for disposal. The project is not proposed to resolve compliance issues.
- ~ The project would reduce the current flow to the Goldsboro WWTP and may reduce pollutant loading in the Neuse River. Fremont intends to maintain their capacity at the Goldsboro WWTP for emergencies and future flows. The Town of Fremont sprayfield is adjacent to Aycock Creek (C, Sw, NSW) and reactivating the sprayfield would create some liability for the Creek if there are problems with the Town's WWTP or disposal site.
- ~ The project consists of rehabilitating an existing 43 acre sprayfield. The work would include 2 new vertical turbine pumps; gas chlorine disinfection; 26,000 lf of sprayfield pipes; 399 sprinkler heads; lagoon improvements; monitoring wells; and controls, valves, etc.
- ~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; and Construction Contingency.
- ~ The Town previously received CWMTF grant 2005B-507 for \$1,552,000 to rehabilitate sewers. In June 2008 CWMTF approved an additional \$116,000 for this work. The work is in progress and the grant expiration date is 10/31/08.
- ~ The Town's application indicates that Design and Permitting will start after CWMTF grant award.
- ~ Matching funds of \$958,000 will be provided by the Town of Fremont using a \$500,000 Rural Center grant, a USDA \$158,000 loan and a USDA \$300,000 grant. The Rural Center and USDA funding has been secured.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-516	Fremont, Town of - WW/ Sprayfield Rehabilitation, Aycock Creek	Wayne	Southern Coastal Plain

CONDITIONS

STAFF

~ 10/12/08: Staff does not support funding this project because the water quality benefits are not clear. The planned economic benefit to the Town is the reduction in cost to users. It appears that this project would undo the regionalization water quality benefit of the previous project.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-517	Grifton, Town of - WW/ Sewer Rehabilitation, Contentnea Creek	Pitt	Northern Coastal Plain

<i>Amount requested:</i>	\$1,000,000	<i>Total Score:</i>	83
<i>Total Project Cost:</i>	\$1,510,000	<i>HB 1095 CC Score (Max 49):</i>	38
<i>% Match:</i>	34		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Contentnea Creek
Waterbody Sensitivity: C, Sw, NSW, urban 303(d), rare aquatic species (S3),DCM exceptional wetlands

County Rank:	50	# Commercial:	58
Tier:	2	Linear ft Line:	15,000
Ability to Pay:	4.63	\$ / linear ft:	\$101
HUC:	\$48.66	CWMTF \$ / ft:	\$67
W/S Rate:	\$56.75	Volume (gpd) Addressed:	30,000
# Resid Served:	981	\$ / Gal:	\$50.33
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	329
Total \$ / Residence:	\$1,539	CWMTF \$ / lb N:	\$3,040

SCOPE OF WORK

GRIFTON

~ The project proposes replacing and rehabilitating some of the Town's sewer mains. The Town of Grifton's wastewater is transported to the Contentnea Metropolitan Sewerage District (CMSD) WWTP. There has been only one recent SSO in the Town's collection system, which occurred during a hurricane. The CMSD WWTP has received NOV's but they do not appear to be due to excessive I/I. The CMSD was recently released from operating under a SOC that included requirements for sewer rehabilitation activities.

~ The project will reduce hydraulic loading at the CMSD WWTP, which discharges into Contentnea Creek (C, Sw, NSW, urban 303(d), rare aquatic species (S3), DCM exceptional wetlands) in the Neuse River basin. The reduction of I/I flow to the WWTP, will reduce effluent quantity and may improve effluent quality during heavy rainfall events and during periods of wet weather.

~ The project would consist of removing 3000 lf of 6-inch sewers and replacing with 8-inch; slip lining 12,000 lf of 8-inch sewers; replacing 200 sewer services; replacing 65 manholes; and necessary point repairs as discovered during video inspection.

~ The application budget requests CWMTF funding for Engineering Design & Permitting; Construction Contingency; and a portion of Construction;

~ The Town previously received CWMTF grant 2004B-804 to develop a storm water plan. The project has been closed out.

~ Matching funds of \$500,100 will be provided by the Town of Grifton using a Rural Center grant, which the Town has applied for.

CONDITIONS

STAFF

~ 10/12/08: Staff does not support funding this project. Staff has concerns about the degree of water quality benefits. There has been only one recent SSO in the Town's collection system, which occurred during a hurricane. The CMSD WWTP has received NOV's but they do not appear to be due to excessive I/I.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-517	Grifton, Town of - WW/ Sewer Rehabilitation, Contentnea Creek	Pitt	Northern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-518	Henderson, City of - WW/ UV Disinfection System, Nutbush Creek	Vance	Eastern Piedmont

Amount requested:	\$1,580,800	Total Score:	78
Total Project Cost:	\$1,976,000	HB 1095 CC Score (Max 49):	44
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin: Roanoke
Stream Name: Nutbush Creek
Waterbody Sensitivity: C, 303(d)

County Rank:	7	# Commercial:	104
Tier:	1	Linear ft Line:	
Ability to Pay:	5.14	\$ / linear ft:	
HUC:	\$33.27	CWMTF \$ / ft:	
W/S Rate:	\$47.73	Volume (gpd) Addressed:	4,140,000
# Resid Served:	8,283	\$ / Gal:	\$0.48
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	0
Total \$ / Residence:	\$239	CWMTF \$ / lb N:	

SCOPE OF WORK

- ~ The project consists of design and installation of a new UV system to replace the outdated and worn out UV system. The new system will meet the current NCDWQ standards for UV systems.
- ~ The project will improve reliability of the WWTP disinfection process and help preserve water quality in Nutbush Creek (C, 303(d)).
- ~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; Construction Contingency; Legal Costs; and Grant Recipients Admin. Costs.
- ~ The City previously received a CWMTF grant (2007-515) for \$429,000 to rehabilitate sewers.
- ~ Matching funds of \$395,200 will be provided by the City of Henderson. The City will use \$82,615 local funds or USDA Rural development funding; the City has requested a \$312,585 grant from NC Rural Center: and the City expects to receive a \$75,000 rebate from the supplier of the new UV system.

CONDITIONS

STAFF

- ~ 10/12/08: Staff recommends funding this project up to the requested amount of \$1,580,800. Because there is no expansion of the plant flow, only an Authorization-to-Construct will be needed and review time should not take long.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-519	Hillsborough, Town of - WW/ WWTP Upgrade, Eno River	Orange	Eastern Piedmont

Amount requested:	\$589,000	Total Score:	108
Total Project Cost:	\$1,258,000	HB 1095 CC Score (Max 49):	30
% Match:	53		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Eno River
Waterbody Sensitivity: C, NSW, rare aquatic species (S1G2, S1G3G4, S2G3,S2G5), DWS-higher

County Rank:	92	# Commercial:	11
Tier:	3	Linear ft Line:	
Ability to Pay:	7.31	\$ / linear ft:	
HUC:	\$56.66	CWMTF \$ / ft:	
W/S Rate:	\$66.21	Volume (gpd) Addressed:	3,000,000
# Resid Served:	3,027	\$ / Gal:	\$10.20
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	20,226
Total \$ / Residence:	\$10,109	CWMTF \$ / lb N:	\$1,513

SCOPE OF WORK

- ~ The application requests funding only for Design & Permitting, preparation of a Preliminary Engineering Report, and a Value Engineering analysis. The construction project, which may follow the design effort, proposes treatment plant improvements that will improve effluent quality to reuse standards. There will be no increase in the Town of Hillsborough WWTP's permitted capacity.
- ~ The WWTP upgrade, which may follow the design project, will improve the WWTP effluent quality and reduce pollutant loading in the Eno River (C, NSW, rare aquatic species (S1G2, S1G3G4, S2G3,S2G5), DWS-higher) in the Neuse River basin.
- ~ The project design will include replace/upgrade the existing WWTP without expanding capacity; biological nutrient removal and reuse quality effluent; Class A sludge; and UV disinfection.
- ~ The application budget requests CWMTF funding for a portion of Design & Permitting, preparation of a Preliminary Engineering Report, and a Value Engineering analysis.
- ~ The Town previously received a CWMTF grant (1997A-074) to acquire buffers along the Eno River.
- ~ Matching funds of \$669,000 will be provided by the Town of Hillsborough using available Local Match.

CONDITIONS

- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

- ~ Staff Recommendation 10/12/08: Staff supports funding this project up to the requested amount of \$589,000.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-519	Hillsborough, Town of - WW/ WWTP Upgrade, Eno River	Orange	Eastern Piedmont

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-520	Kenly, Town of - WW/ WWTP Upgrades, Little River	Johnston	Eastern Piedmont

Amount requested:	\$479,000	Total Score:	99
Total Project Cost:	\$689,275	HB 1095 CC Score (Max 49):	36
% Match:	31		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Little River
Waterbody Sensitivity: WS V, NSW, 303(d), DWS-moderate

County Rank:	88	# Commercial:	21
Tier:	3	Linear ft Line:	
Ability to Pay:	3.66	\$ / linear ft:	
HUC:	\$29.65	CWMTF \$ / ft:	
W/S Rate:	\$58.12	Volume (gpd) Addressed:	630,000
# Resid Served:	759	\$ / Gal:	\$1.09
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	1,864
Total \$ / Residence:	\$908	CWMTF \$ / lb N:	\$257

SCOPE OF WORK

~ The project proposes to make improvements to the biological nutrient removal system to improve efficiency and decrease the amount of total nitrogen discharged. A new dissolved oxygen control system and chemical feed equipment, for pH adjustment, are proposed to improve TN removal. The Town is out of compliance with their membership requirement with the Neuse River Compliance Association, which holds the annual allowance for total nitrogen that the Town can discharge in their effluent. If the Town were not a member of the NRCA they would not be complying with their NPDES permit limit for TN. The DWQ NPDES Unit commented in support of the project.

~ The project will improve reliability and biological nutrient removal at the Town's WWTP and reduce nutrient pollutant loading in Little River (WS V, NSW, 303(d), DWS-moderate) in the Neuse River basin.

~ The application budget requests CWMTF funding for a portion of Construction; and Construction Admin/Observation.

~ The Town previously received CWMTF grant (2007-519) for \$14,000 for only Design and Permitting for the same project work as this application.

~ Matching funds of \$210,275 are proposed to be provided by the Town of Kenly. The Town is prepared to secure a loan for the funds.

CONDITIONS

STAFF

~ 10/12/08: Staff recommends funding this project up to the requested amount of \$479,000. The Town indicated in their application that they expect plans complete & permits obtained, by August 2008.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-521	Kinston, City of - WW/ Sewer Rehabilitation, Briery Run	Lenoir	Southern Coastal Plain

Amount requested:	\$2,097,920	Total Score:	74
Total Project Cost:	\$2,517,500	HB 1095 CC Score (Max 49):	38
% Match:	17		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Briery Run
Waterbody Sensitivity: C, Sw, NSW

County Rank:	12	# Commercial:	2000
Tier:	1	Linear ft Line:	12,693
Ability to Pay:	6.82	\$ / linear ft:	\$198
HUC:	\$37.15	CWMTF \$ / ft:	\$165
W/S Rate:	\$61.54	Volume (gpd) Addressed:	496,000
# Resid Served:	8,867	\$ / Gal:	\$5.08
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	5,431
Total \$ / Residence:	\$284	CWMTF \$ / lb N:	\$386

SCOPE OF WORK

~ The project proposes rehabilitating part of the City's Briery Run 30-inch sewer main, which has been damaged by hydrogen sulfide corrosion and is subject to flooding because manhole tops are below flood elevation. This project is part of the City's continuing effort to reduce I/I. There were no SSO's from the sewer proposed for rehabilitation or downstream sewers. The Kinston WWTP has not received NOV's due to excessive I/I.

~ The project proposes to reduce loading at the City's WWTP and reduce the discharge to the Neuse River (C, Sw, NSW) by approximately 496,000 gpd during high flow events associated with heavy rainfall. The I/I reduction would also improve effluent quality during periods of high I/I.

~ The project would consist of rehabilitating approximately 13,000 lf of 30-inch pipe and 48 manholes. Pipe will be rehabilitated using cured-in-place-pipe method. Most of the manhole rims will need to be raised above the 100 year flood elevation.

~ The application budget requests CWMTF funding for Engineering Design & Permitting; Construction Administration/Observation; and a portion of Construction and Construction Contingency.

~ The City has received CWMTF grants for wastewater projects consisting of Neuse River Sewer Rehabilitation 1998B-510 for \$920,000 (completed); Sludge Dewatering Facility 1999B-503 for \$2,429,000 (completed); Adkin Branch Sewer Rehabilitation 2001A-503 for \$3,000,000 (completed); and Land Application Enhancement 2004B-508 for \$1,290,000 (scheduled for completion November 2008); and College Street Sewer Rehabilitation 2007-520 for \$903,000 (awarded November 2007). Previous Kinston projects total \$9,872,000, which includes \$8,542,000 wastewater projects.

~ Match funding of \$419,580 will be provided by the City of Kinston and will consist of \$356,640 local match and \$62,940 in-kind service.

CONDITIONS

STAFF

~ 10/12/08: Staff does not support funding this project. Staff has concerns about the degree of water quality benefits. There were no SSO's from the sewer proposed for rehabilitation or downstream sewers. The Kinston WWTP has not received NOV's due to excessive I/I.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-521	Kinston, City of - WW/ Sewer Rehabilitation, Briery Run	Lenoir	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-522	LaGrange, Town of - WW/ WWTP Headworks, Mosely Creek	Lenoir	Southern Coastal Plain

Amount requested:	\$400,638	Total Score:	90
Total Project Cost:	\$474,388	HB 1095 CC Score (Max 49):	34
% Match:	16		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Mosely Creek
Waterbody Sensitivity: C, Sw, NSW

County Rank:	12	# Commercial:	0
Tier:	1	Linear ft Line:	
Ability to Pay :	3.82	\$ / linear ft:	
HUC:	\$39.48	CWMTF \$ / ft:	
W/S Rate:	\$54.70	Volume (gpd) Addressed:	830,000
# Resid Served:	1,328	\$ / Gal:	\$0.57
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	913
Total \$ / Residence:	\$357	CWMTF \$ / lb N:	\$439

SCOPE OF WORK

- ~ This project work is related to the scope of 2004B-509, which was for facilities to allow the Town to land dispose reuse quality effluent.
- ~ The project scope consists of construction of WWTP improvements including new fine bar screen; new grit chamber; new influent pump station control system.
- ~ The project will allow the WWTP to more consistently meet effluent discharge limits and reuse effluent limits and reduce pollutants discharged to Mosely Creek (C, Sw, NSW). Spills to Mosely Creek are estimated to be 80,000 gallons per year.
- ~ The application budget requests CWMTF funding for Construction Contingency and for a portion of Construction.
- ~ The Town previously received a CWMTF grant (2002B-604) for \$400,000 to rehabilitate sewers; a CWMTF grant (2004B-509) for \$1,139,000 for a reuse effluent disposal project; and a CWMTF grant (2007-522) for \$22,000 for only Design and Permitting for this project work.
- ~ Match funding of \$73,750 will be provided by the Town of LaGrange.

CONDITIONS

STAFF

- ~ Staff Recommendation 10/12/08: Staff recommends funding this project up to the requested amount of \$401,000. The Town has indicated that design and permitting is complete and the project is ready to be advertised for bids.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-523	Kinston, City of (Lenoir Co.) - WW/ Reuse Facility, Neuse River	Lenoir	Southern Coastal Plain

Amount requested:	\$2,900,000	Total Score:	87
Total Project Cost:	\$3,056,000	HB 1095 CC Score (Max 49):	25
% Match:	5		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Neuse River
Waterbody Sensitivity: C, NSW

County Rank:	12	# Commercial:	
Tier:	1	Linear ft Line:	17,500
Ability to Pay:	6.82	\$ / linear ft:	\$175
HUC:	\$37.15	CWMTF \$ / ft:	\$166
W/S Rate:	\$61.54	Volume (gpd) Addressed:	100,000
# Resid Served:		\$ / Gal:	\$30.56
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	1,095
Total \$ / Residence:		CWMTF \$ / lb N:	\$2,648

SCOPE OF WORK

~ The project was originally submitted for the 2008 funding cycle by Lenoir County. The County and the City of Kinston have agreed for the City to take the lead and become the applicant. The project proposes installing 17,500 lf of 8-inch diameter pipe, a booster station, and reuse tank to transfer effluent reuse water from Kinston's Regional Water Reclamation Facility to the County's proposed 126 acre Civil War Battlefield Parkway and Soccer Complex Project.

~ The project proposes to reduce the discharge from the City's WWTP to the Neuse River (C, Sw, NSW) by approximately 100,000 to 500,000 gpd. The amount of flow to be disposed had not been accurately estimated when the application was submitted.

~ The application budget requests CWMTF funding for Engineering Design & Permitting; Construction; Construction Admin/Observation; and Project Admin. Costs.

~ The County has not previously received a CWMTF grant.

~ The application indicates that Design and Permitting will start after CWMTF award. Design & Permitting is shown in the Budget Template as \$150,000. If this were funded at the same 95% amount as the proposed overall budget, the CWMTF grant would be approximately \$143,000 and the City's match would be \$7,000.

CONDITIONS

~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.

~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

~ 10/12/08: Staff supports funding up to \$139,000 for Engineering Design & Permitting. The City would provide \$11,000 match.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-523	Kinston, City of (Lenoir Co.) - WW/ Reuse Facility, Neuse River	Lenoir	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-524	Lilesville, Town of - WW/ Sewer Rehabilitation, Smith Creek	Anson	Northern Mt./ Western Piedmont

Amount requested:	\$1,087,677	Total Score:	73
Total Project Cost:	\$1,317,822	HB 1095 CC Score (Max 49):	44
% Match:	17		

SUMMARY AND WATER QUALITY

River Basin: Yadkin
 Stream Name: Smith Creek
 Waterbody Sensitivity: WS IV, C, DWS-moderate

County Rank:	6	# Commercial:	0
Tier:	1	Linear ft Line:	3,100
Ability to Pay :	3.50	\$ / linear ft:	\$425
HUC:	\$40.58	CWMTF \$ / ft:	\$351
W/S Rate:	\$56.00	Volume (gpd) Addressed:	10,940
# Resid Served:	24	\$ / Gal:	\$120.46
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	120
Total \$ / Residence:		CWMTF \$ / lb N:	\$9,064

SCOPE OF WORK

~ The project proposes to replace/rehabilitate sewers to reduce I/I; relocate the US 74 pump station out of a flood prone area; and replace another pump station. The Town's wastewater is transported to the Anson County sewer system and treated at the Anson County 3.5 MGD WWTP. The County received 6 NOV's between June 2004 and November 2006. Because of system bypasses, in the late 1990's DENR made a requirement for Anson County to reduce I/I flow. In 2005 the Town completed a sewer project to rehabilitate about 62% of the Town's system. The Town has performed smoke testing and video inspection to identify additional sources of I/I and this investigation is the basis of the proposed project. The US 74 pump station has been flooded by Hale Creek, which is within 50 yds. of the pump station. DWQ commented in support of the project.

~ The project will reduce the potential for overflows and mitigate flooding of pump stations, which will preserve/improve water quality in Smith Creek (WS IV, C, DWS-moderate) and Hale Creek. The project will also reduce hydraulic loading at the County's WWTP. The I/I reduction would reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality in the Pee Dee River

~ The project would consist of replacing 3100 lf of 8-inch sewer, 20 manholes, and 24 service laterals; repairing 15 vertical feet of manholes; raising lids and repairing 18 manholes in flood prone areas; and replacing the Town's 2 pump stations.

~ The application budget requests CWMTF funding for Engineering Design & Permitting, Construction Contingency, and Legal Costs; and a portion of Construction Construction Admin/Observation; and Project Admin. Costs.

~ The Town has not previously received a CWMTF grant.

~ Matching funds of \$230,145 will be provided by the Town of Lilesville using a Rural Center grant, which has been applied for.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-524	Lilesville, Town of - WW/ Sewer Rehabilitation, Smith Creek	Anson	Northern Mt./ Western Piedmont

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$1,088,000. Application indicates Design & Permitting will start after CWMTF grant award. Design and permitting usually does not take long to complete for sewer rehabilitation projects.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-525	Manteo, Town of - WW/ WWTP Upgrades, Shallowbag Bay	Dare	Northern Coastal Plain

Amount requested:	\$686,000	Total Score:	89
Total Project Cost:	\$857,500	HB 1095 CC Score (Max 49):	
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin: Pasquotank
Stream Name: Shallowbag Bay
Waterbody Sensitivity: Shellfish, SC, 303(d), PNA, DCM exceptional wetland

County Rank:	79	# Commercial:	
Tier:	2	Linear ft Line:	
Ability to Pay :	6.44	\$ / linear ft:	
HUC:	\$42.32	CWMTF \$ / ft:	
W/S Rate:	\$49.40	Volume (gpd) Addressed:	
# Resid Served:		\$ / Gal:	
% Septic Failing:		Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:		CWMTF \$ / lb N:	

SCOPE OF WORK

CONDITIONS

STAFF

~ 10/12/08: Staff does not recommend funding this project. The Town is having legal issues related to their wastewater system and may not be able to implement the project effectively.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-526	Maysville, Town of - WW/ WWTP Upgrades, Septic Tanks, White Oak River	Jones	Southern Coastal Plain

<i>Amount requested:</i>	\$240,500	<i>Total Score:</i>	84
<i>Total Project Cost:</i>	\$823,000	<i>HB 1095 CC Score (Max 49):</i>	37
<i>% Match:</i>	71		

SUMMARY AND WATER QUALITY

River Basin: White Oak
Stream Name: White Oak River

Waterbody Sensitivity: C, State Sig. Aq Hab, rare aquatic species (S3)

County Rank:	26	# Commercial:	0
Tier:	1	Linear ft Line:	9,299
Ability to Pay :	2.29	\$ / linear ft:	\$89
HUC:	\$39.13	CWMTF \$ / ft:	\$26
W/S Rate:	\$40.50	Volume (gpd) Addressed:	260,000
# Resid Served:	415	\$ / Gal:	\$3.17
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	8,670
Total \$ / Residence:	\$1,983	CWMTF \$ / lb N:	\$28

SCOPE OF WORK

~ The project proposes rehabilitating 9299 lf of sewers by sliplining; improving the Town's WWTP from secondary to tertiary treatment without expanding capacity. The WWTP will be capable of producing reuse quality effluent. The Town has previously replaced 25,000 lf and rehabilitated 11,000 lf of sewers to reduce I/I flows. Maysville's WWTP was recently released from a moratorium. The small plant volume relative to peak flows makes I/I an even worse problem for upsets and washouts. The Town has had three SSO's in the last 5 years. The DWQ NPDES unit commented in support of the WWTP work.

~ The project will reduce sewer overflows, which will preserve water quality. The project will reduce hydraulic loading at the Town's WWTP, which would reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality in the White Oak River (C, State Sig. Aq Hab, rare aquatic species (S3)).

~ The project would consist of rehabilitating 8494 lf of 8-inch, 456 lf of 10-inch, and 349 lf of 12-inch by sliplining; and improving the WWTP from secondary to tertiary treatment without expanding capacity. The WWTP work consists of replacing the bar screen/grit removal equipment; replacing blowers and improving aeration diffusers; replacing sludge return system; installing mixers, pumps, and adding filters; ultraviolet disinfection; and improving chemical feed to improve solids and total phosphorous removal.

~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; Construction Contingency; and Project Admin. Costs.

~ The Town previously received CWMTF grant 1999B-514 for \$71,280 for an emergency power generator; CWMTF grant 2000B-510 for \$60,000 for I/I survey and design for repairs; and CWMTF grant 2001B-504 for \$655,045 for sewer rehabilitation work.

~ Matching funds of \$582,500 will be provided by the Town of Maysville using \$82,500 Local Match and a \$500,000 Rural Center grant, which has been received.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-526	Maysville, Town of - WW/ WWTP Upgrades, Septic Tanks, White Oak River	Jones	Southern Coastal Plain

CONDITIONS

~ Application indicates that the current average water/sewer bill is below the 2008 HUC threshold. Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

STAFF

10/12/08: Staff supports funding this project up to the requested amount of \$241,000. The Town estimates that project design will be complete by the end of October 2008.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-527	Morven, Town of - WW/ Sewer Rehabilitation, South Fork Jones Creek	Anson	Northern Mt./ Western Piedmont

<i>Amount requested:</i>	\$1,247,094	<i>Total Score:</i>	70
<i>Total Project Cost:</i>	\$1,461,695	<i>HB 1095 CC Score (Max 49):</i>	39
<i>% Match:</i>	15		

SUMMARY AND WATER QUALITY

River Basin: Yadkin
Stream Name: South Fork Jones Creek
Waterbody Sensitivity: C, rare aquatic species (S1G1, S1G3,), State sign. aquatic habitat

County Rank:	6	# Commercial:	0
Tier:	1	Linear ft Line:	2,250
Ability to Pay:	1.75	\$ / linear ft:	\$650
HUC:	\$32.46	CWMTF \$ / ft:	\$554
W/S Rate:	\$72.03	Volume (gpd) Addressed:	28,245
# Resid Served:	53	\$ / Gal:	\$51.75
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	309
Total \$ / Residence:		CWMTF \$ / lb N:	\$4,036

SCOPE OF WORK

~ The project proposes to replace sewers to reduce I/I and replace all 3 of the Town's pump stations. The Town's wastewater is transported to the Anson County sewer system and treated at the Anson County 3.5 MGD WWTP. The County received 6 NOV's between June 2004 and November 2006. Because of system bypasses, in the late 1990's DENR made a requirement for Anson County to reduce I/I flow. The Town previously received a CWMTF grant for a Phase I sewer rehabilitation project, which included replacing 6,000 lf of sewers; and a CWMTF grant for a Phase 2 I/I Study. The Town's three pump stations are worn out partly because of the extra run time required to pump I/I flow. DWQ commented in support of the project.

~ The project will reduce the potential for overflows stations, which will preserve water quality in South Fork Jones Creek (C, rare aquatic species (S1G1, S1G3), State Sig. Aq. Hab.). The project will also reduce hydraulic loading at the County's WWTP. The I/I reduction would reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality in the Pee Dee River

~ The project would consist of replacing 8 manholes and 23 4-inch service connections; replacing 2250 lf of 8-inch sewer, 8 manholes, and 30 4-inch service connections; and replacing all 3 of the Town's pump stations.

~ The application budget requests CWMTF funding for Engineering Design & Permitting, Construction Contingency, and Legal Costs; and a portion of Construction; Construction Admin/Observation; and Project Admin. Costs.

~ The Town previously received a CWMTF grant 2002A-505 for \$63,000 for a Phase I sewer rehabilitation project, which included replacing 6,000 lf of sewers; and CWMTF grant 2005B-807 for \$40,000 for a Phase 2 I/I Study.

~ Matching funds of \$214,601 will be provided by the Town of Morven using a Rural Center grant, which has been applied for.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-527	Morven, Town of - WW/ Sewer Rehabilitation, South Fork Jones Creek	Anson	Northern Mt./ Western Piedmont

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding the requested project up to the request amount of \$1,247,000. The application indicates Design & Permitting will start after CWMTF grant award. Design and permitting usually does not take long to complete for sewer rehabilitation projects.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-528	Mount Olive - WW/ Sewer Rehabilitation, NE Cape Fear River	Wayne	Southern Coastal Plain

Amount requested:	\$1,613,368	Total Score:	82
Total Project Cost:	\$2,016,768	HB 1095 CC Score (Max 49):	39
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin: Cape Fear
Stream Name: Northeast Cape Fear River
Waterbody Sensitivity: C, NSW, DWS-higher, WS IV

County Rank:	35	# Commercial:	0
Tier:	1	Linear ft Line:	14,395
Ability to Pay:	3.00	\$ / linear ft:	\$140
HUC:	\$34.27	CWMTF \$ / ft:	\$112
W/S Rate:	\$45.24	Volume (gpd) Addressed:	1,219,533
# Resid Served:	200	\$ / Gal:	\$1.65
% Septic Failing:		Lbs/yr Nitrogen Reduced:	4,849
Total \$ / Residence:	\$10,084	CWMTF \$ / lb N:	\$333

SCOPE OF WORK

- ~ The project proposes improving, rehabilitating and replacing existing pump stations; installing a new pump station, force main and sewers to handle flow from the Town of Calypso and future growth; and rehabilitating existing sewers to reduce I/I and flows to the Town's WWTP. The Town's WWTP was expanded to accommodate regionalization from Calypso and growth. There have been 38 reported SSO's since March of 2002. The application indicates that 3.4M gallons of raw wastewater overflowed from the sewer system from 2005 thru 2007. DWQ commented in support of the project.
- ~ The project will reduce the probability of the overloading an existing pump station with flow from the Town of Calypso and future growth and protect Thunder Swamp in the Neuse River Basin (C, NSW, DWS-higher, WS IV) from overflows. The project will improve the Town of Mt. Olive's sewer system's capacity to handle flows from Calypso and accommodate growth on the northwest side of town.
- ~ Sewer system rehabilitation would reduce I/I and thereby reduce hydraulic loading at the Town's WWTP. This would reduce upsets at the WWTP and improve effluent quality during periods of high I/I and improve water quality in Barlow Branch and the Northeast Cape Fear River
- ~ The project consists of installing a new pump station, 10,000 lf of 6" force main, 400 lf of 12-inch and 1300 lf of 15-inch gravity sewer to handle flow from the Town of Calypso and future growth; replacing 2 pump stations; improving 2 pump stations; installing 875 lf of 12" gravity sewer and abandoning a pump station; and rehabilitating existing sewers to reduce I/I and flows to the Town's WWTP by replacing 2695 lf of 8-inch sewers.
- ~ The application budget requests CWMTF funding for Land/Easement Acquisition; Construction; Construction Admin/Observation; Construction Contingency; and Legal Costs.
- ~ The Town previously received CWMTF grant (2007-528) for \$115,000 for only Design and Permitting for the same project work as this application.
- ~ Matching funds of \$403,400 are proposed to be provided by the Town of Mt. Olive using a USDA loan, which the Town has received a commitment for.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-528	Mount Olive - WW/ Sewer Rehabilitation, NE Cape Fear River	Wayne	Southern Coastal Plain

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding the I/I rehabilitation portion of this project up to \$717,000. The Town's match for this portion of the project would be approximately \$179,000. Staff has concerns about the rest of the project because it appears to be needed mainly to accommodate growth.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-529	Onslow Water and Sewer Authority - WW/ Discharge Elimination and Sewer Rehabilitation, New River	Onslow	Southern Coastal Plain

<i>Amount requested:</i>	\$1,586,000	<i>Total Score:</i>	117
<i>Total Project Cost:</i>	\$2,115,360	<i>HB 1095 CC Score (Max 49):</i>	45
<i>% Match:</i>	25		

SUMMARY AND WATER QUALITY

River Basin: White Oak

Stream Name: New River

Waterbody Sensitivity: C, NSW, SC, DCM exceptional wetlands

County Rank:	45	# Commercial:	48
Tier:	2	Linear ft Line:	10,200
Ability to Pay:	24.05	\$ / linear ft:	\$207
HUC:	\$52.79	CWMTF \$ / ft:	\$155
W/S Rate:	\$61.16	Volume (gpd) Addressed:	104,000
# Resid Served:	425	\$ / Gal:	\$20.34
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	1,139
Total \$ / Residence:	\$4,977	CWMTF \$ / lb N:	\$1,392

SCOPE OF WORK

~ The project proposes installing 2 pump stations and force mains to eliminate wastewater treatment plants at 2 subdivisions and transport the flow to the City of Jacksonville's system for secondary wastewater treatment and land disposal. The Kenwood Estates 37,000 gpd WWTP and the Springdale Acres 67,000 gpd WWTP would be eliminated. Also, some sewer rehabilitation would be performed on the Springdale Acres sewers. The Springdale Acres WWTP, which is owned by Centerline Utilities, is out of compliance and operating under an SOC. ONWASA is in the process of purchasing the Springdale wastewater facilities. The Kenwood Estates WWTP, which is owned by ONWASA, is in compliance with its NPDES permit. DWQ's Section Chief, Paul Rawls, wrote a 2/4/08 letter in support of the project.

~ The project will eliminate discharge from the Kenwood Estates WWTP reducing pollutant loading in Southwest Creek; and eliminate discharge from the Springdale Estates WWTP reducing pollutant loading in Brinson Creek. These creeks are tributary to the New River (C, NSW, SC, 303(d), DCM exceptional wetlands) in the White Oak River basin. The sewer rehabilitation work would reduce I/I flow.

~ The project consists of taking 2 WWTP's out of service and transporting their wastewater to Jacksonville's land treatment system. Kenwood Estates: Install a pump station & 4500 lf of force main. Springdale Acres: Install a pump station & 3700 lf of force main; and rehabilitate 2000 lf of sewers.

~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Land and/or Easement Acquisition; Construction; Construction Contingency; and Legal Costs.

~ ONWASA has not previously received a CWMTF grant.

~ Matching funds of \$528,839 will be provided by the ONWASA using local match. Design & Permitting and Land and/or Easement Acquisition is shown in the Budget Template as \$249,730. If Design & Permitting were funded at the same 75% amount as the proposed overall budget, the CWMTF grant would be approximately \$188,000 and ONWASA's match would be \$61,730.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-529	Onslow Water and Sewer Authority - WW/ Discharge Elimination and Sewer Rehabilitation, New River	Onslow	Southern Coastal Plain

CONDITIONS

- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

~10/12/08: Staff supports funding up to \$188,000 for Engineering Design & Permitting and Land and/or Easement Acquisition. ONWASA would provide \$61,730 match. ONWASA has indicated that design for this project will begin after grant award.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-530	Parkton, Town of - WW/ Red Springs Regionalization, Dunn's Marsh	Robeson	Southern Coastal Plain

Amount requested:	\$3,000,000	Total Score:	101
Total Project Cost:	\$3,600,000	HB 1095 CC Score (Max 49):	37
% Match:	17		

SUMMARY AND WATER QUALITY

River Basin: Lumber
Stream Name: Dunn's Marsh
Waterbody Sensitivity: C, Sw, rare aquatic species (S3)

County Rank:	11	# Commercial:	30
Tier:	1	Linear ft Line:	75,000
Ability to Pay :	3.94	\$ / linear ft:	\$48
HUC:	\$45.21	CWMTF \$ / ft:	\$40
W/S Rate:	\$43.60	Volume (gpd) Addressed:	200,000
# Resid Served:	180	\$ / Gal:	\$18.00
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	2,409
Total \$ / Residence:	\$20,000	CWMTF \$ / lb N:	\$1,245

SCOPE OF WORK

~ The project proposes to decommission the Town of Parkton WWTP and provide potential for eliminating septic system problems in Lumber Bridge. The project includes a regional pump station and force main to transport the Town of Parkton and Lumber Bridge's wastewater to Red Springs where it will be treated at the Red Springs WWTP. In the last 5 years (2002-2007) the Town has had numerous NOV's of their WWTP permit. NCDWQ supports this effort to eliminate the Town's WWTP discharge.

~ The project will eliminate the discharge from the Town of Parkton WWTP reducing pollutant loading in Dunn's Marsh (C, Sw, rare aquatic species (S3)) in the Lumber River basin.

~ The project consists of repairing the Town's existing Pump Station No. 1; converting Pump Station No. 2 to a regional pump station; installing a pump station in Lumber Bridge; and installing 75,000 lf of 8-inch force main thru Lumber Bridge to the Town of Red Springs sewer system.

~ The application budget requests CWMTF funding for Land and/or Easement Acquisition; Construction Contingency; and Project Admin. Costs; and for a portion of Engineering Design and Permitting, and Construction.

~ The Town previously received CWMTF grant 1999B-510 for \$670,000 for rehabilitation of sewers.

~ Matching funds of \$600,000 will be provided by the Town of Parkton using \$100,000 local match and a \$500,000 grant from the NC Rural Center, which the Town has applied for. Design & Permitting and Land and/or Easement Acquisition are shown in the Budget Template as \$174,400. If this were funded at the same 83% amount as the proposed overall budget, the CWMTF grant would be approximately \$145,000 and the Town's match would be \$29,400.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-530	Parkton, Town of - WW/ Red Springs Regionalization, Dunn's Marsh	Robeson	Southern Coastal Plain

CONDITIONS

- ~ Application indicates that the current average water/sewer bill is below the HUC threshold for the Town of Parkton. Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.
- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

~ 10/12/08: Staff supports funding up to \$145,000 for Engineering Design & Permitting and Land and/or Easement Acquisition. The Town of Parkton would provide \$29,400 match. The Town's application indicates that Design and Permitting will start after CWMTF award.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-531	Princeville, Town of - WW/ Pump Station Rehabilitation, Tar River	Edgecombe	Southern Coastal Plain

Amount requested:	\$80,000	Total Score:	90
Total Project Cost:	\$100,000	HB 1095 CC Score (Max 49):	35
% Match:	17		

SUMMARY AND WATER QUALITY

River Basin: Tar-Pamlico

Stream Name: Tar River

Waterbody Sensitivity: C, NSW, rare aquatic species (S1G1, S1G3), Nationally significant aquatic habitat, DWS-higher, local watershed plan

County Rank:	2	# Commercial:	0
Tier:	1	Linear ft Line:	
Ability to Pay:	2.96	\$ / linear ft:	
HUC:	\$42.00	CWMTF \$ / ft:	
W/S Rate:	\$49.36	Volume (gpd) Addressed:	10,000
# Resid Served:	768	\$ / Gal:	\$10.00
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	110
Total \$ / Residence:	\$130	CWMTF \$ / lb N:	\$727

SCOPE OF WORK

~ The project proposes renovating 4 pump stations to improve reliability. The Town pumps wastewater to the Town of Tarboro's WWTP. The goal of the project is to mitigate the potential for sewer overflows that would impact the Tar River. In 2008, three (3) pumps have had to be replaced/rebuilt. One pump station had both pumps out of service at the same time, requiring more than two weeks of temporary pump rental. Original sewer pumps are experiencing seal failures followed by motor failure and repair. In 2002 a new pump station was installed, which uses submersible pumps with carbon seals and all facilities, including electrical controls/panel, were new. This new pump station has never had a motor failure. Installing new pumps and new electrical controls for the project sites should eliminate the current problems and prevent overflows.

~ The project will mitigate overflows and improve water quality in the Tar River (C, NSW, rare aquatic species (S1G1, S1G3), Nationally Sig. Aq habitat, DWS-higher, local watershed plan).

~ The project would consist of renovating the Mutual Blvd. PS; the Church St. PS, the Greenwood Blvd PS, and the Newton Avenue PS to improve reliability.

~ The application budget requests CWMTF funding for Engineering Design & Permitting; Construction Admin/Observation; Construction Contingency; Legal Costs; and a portion of Construction.

~ The Town has not previously received a CWMTF grant.

~ Matching funds of \$20,000 will be provided by the Town of Princeville using Local funding.

CONDITIONS

STAFF

10/12/08: Staff supports funding this project up to the requested amount of \$80,000. Application indicates Design & Permitting will start after CWMTF grant award. Design and permitting usually does not take long to complete for sewer rehabilitation projects.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-531	Princeville, Town of - WW/ Pump Station Rehabilitation, Tar River	Edgecombe	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-532	Rich Square, Town of - WW/ Sewer Rehabilitation, Bridgers Creek	Northampton	Northern Coastal Plain

Amount requested:	\$1,618,555	Total Score:	78
Total Project Cost:	\$2,191,355	HB 1095 CC Score (Max 49):	44
% Match:	26		

SUMMARY AND WATER QUALITY

River Basin: Roanoke
Stream Name: Bridgers Creek
Waterbody Sensitivity: C, DCM exceptional wetlands, NHSA

County Rank:	13	# Commercial:	0
Tier:	1	Linear ft Line:	15,105
Ability to Pay:	3.12	\$ / linear ft:	\$145
HUC:	\$31.29	CWMTF \$ / ft:	\$107
W/S Rate:	\$46.87	Volume (gpd) Addressed:	37,120
# Resid Served:	87	\$ / Gal:	\$59.03
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	406
Total \$ / Residence:	\$25,188	CWMTF \$ / lb N:	\$3,987

SCOPE OF WORK

~ The project proposes replacing, rehabilitating, cleaning and performing sewer video inspection of some sewers to reduce I/I flow. As a result of continuing problems, the Town was placed under a sewer moratorium in 2004 and entered into a Special Order by Consent (SOC) agreement in 2007. There have been some sewer line overflows but most of the water quality issues are due to WWTP permit violations caused by excessive flows during wet weather. The Town has completed has completed sewer system rehabilitation for approximately 45% of their system. The Town also completed an I/I Study, which was funded with CWMTF grant 2006B-812 and the work proposed for this project is based on the study findings.

~ The project will mitigate overflows and reduce hydraulic loading at the Town's WWTP. The I/I reduction would reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality in Bridgers Creek (C, DCM exceptional wetlands, NHSA) in the Roanoke River basin.

~ The project consists of rehabilitating 2155 lf of 8-inch, 2750 lf of 12-inch, 14 manholes, 24 service laterals; 10 point repairs; and replacing 7850 lf of 8-inch, 2350 lf of 12-inch, 40 manholes, and 63 service laterals.

~ The application budget requests CWMTF funding for all of Construction Contingency; and a portion of Engineering Design & Permitting, Construction, Construction Admin/Observation, and Project Admin. Costs.

~ The Town previously received CWMTF grant 2006B-812 for \$40,000 for the Town's Phase 2 I/I Study; and CWMTF grant 2006A-525 for \$403,000 for WWTP improvements.

~ Matching funds of \$572,800 will be provided by the Town of Rich Square using \$25,000 Local Match and a \$547,800 Rural Center grant, which the Town has applied for.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-532	Rich Square, Town of - WW/ Sewer Rehabilitation, Bridgers Creek	Northampton	Northern Coastal Plain

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$1,619,000. Application indicates Design & Permitting will start after CWMTF grant award. Design and permitting usually does not take long to complete for sewer rehabilitation projects.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-533	Scotland Neck, Town of - WW/ Sewer Rehabilitation, Canal Creek	Halifax	Northern Coastal Plain

Amount requested:	\$1,590,875	Total Score:	88.6
Total Project Cost:	\$1,861,526	HB 1095 CC Score (Max 49):	42
% Match:	15		

SUMMARY AND WATER QUALITY

River Basin: Tar-Pamlico

Stream Name: Canal Creek

Waterbody Sensitivity: C, NSW, DWS-higher, DCM exceptional wetlands

County Rank:	2	# Commercial:	0
Tier:	1	Linear ft Line:	13,498
Ability to Pay:	3.16	\$ / linear ft:	\$138
HUC:	\$29.35	CWMTF \$ / ft:	\$118
W/S Rate:	\$54.68	Volume (gpd) Addressed:	27,225
# Resid Served:	261	\$ / Gal:	\$68.38
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	243
Total \$ / Residence:	\$7,132	CWMTF \$ / lb N:	\$6,547

SCOPE OF WORK

~ CWMTF funded a Phase 2 Inflow/Infiltration Study in the 2007 cycle (2007-818). The Phase 2 study area is adjacent to the completed Phase 1 study area. The project proposed in the 2008 application consists of sewer rehabilitation work and improvements to the Town WWTP disinfection system. The Town has received 12 NOV's since December 2005 and 11 of them are related to impacts of I/I on the WWTP performance.

~ The sewer rehabilitation would reduce I/I and thereby reduce hydraulic loading at the Town's WWTP. This would reduce upsets at the WWTP and improve effluent quality during periods of high I/I and improve water quality in Canal Creek (C, NSW, DWS-higher, DCM exceptional wetlands).

~ The project consists of two components. The first component consists of sewer rehabilitation along 8th, 12th, Greenwood St, and Roanoke St. including; rehabilitation of 12,957 lf of 8-inch, 10-inch and 12-inch gravity sewer; replacement of 541 lf o 8-inch, 16 point repairs, 14 protruding tap removals, rehabilitation of 336 vf of manholes and 216 service taps. The second component will consist of WWTP improvements chlorination/dechlorination contact chamber will be constructed to aid in wastewater treatment. This system will provide supplemental disinfection of the exiting UV system during high flow periods.

~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; Construction Contingency; Legal Costs; and Project Admin. Costs.

~ The Town previously received a CWMTF grant (2000A-016) for \$430,000 to rehabilitate 8100 lf of sewers, which has been completed; CWMTF grant (2001A-507) for \$100,000 for WWTP improvements, which have been completed; and CWMTF grant (2007-818) for \$40,000 for an I&I study, which is on going.

~ Matching funds of \$270,651 will be provided by the Town of Scotland Neck using a Rural Center grant, which was applied for in December 2007.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-533	Scotland Neck, Town of - WW/ Sewer Rehabilitation, Canal Creek	Halifax	Northern Coastal Plain

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$1,591,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-534	St. Pauls, Town of - WW/ Sewer Rehabilitation, Big Marsh Swamp	Robeson	Southern Coastal Plain

Amount requested:	\$3,000,000	Total Score:	45
Total Project Cost:	\$3,157,895	HB 1095 CC Score (Max 49):	34
% Match:	5		

SUMMARY AND WATER QUALITY

River Basin: Lumber
Stream Name: Big Marsh Swamp
Waterbody Sensitivity: C, Sw

County Rank:	11	# Commercial:	153
Tier:	1	Linear ft Line:	23,152
Ability to Pay:	2.98	\$ / linear ft:	\$136
HUC:	\$31.26	CWMTF \$ / ft:	\$130
W/S Rate:	\$49.00	Volume (gpd) Addressed:	137,500
# Resid Served:	1,111	\$ / Gal:	\$22.97
% Septic Failing:	70%	Lbs/yr Nitrogen Reduced:	1,379
Total \$ / Residence:	\$2,842	CWMTF \$ / lb N:	\$2,175

SCOPE OF WORK

~ The project proposes WWTP improvements; rehabilitating and replacing sewers; and installing sewers to eliminate 50 septic systems. The work would improve the WWTP's effectiveness and consistency and improve the effluent quality. The Town has sewer overflows and has received NOV's at the WWTP for violations that are the result of excessive I/I. Approximately 35 of the 50 septic systems (70%), which would be eliminated, are failing. DWQ commented in support of this project.

~ The WWTP improvements will provide better and more consistent wastewater treatment and improve effluent quality. The I/I portion of the project will mitigate overflows and also reduce hydraulic loading at the Town's WWTP, which would reduce upsets at the WWTP, improve effluent quality during periods of high I/I and improve water quality. The project will also eliminate failing septic systems, which will improve water quality. This work would improve water quality in Big Marsh Swamp (C, Sw) in the Lumber River basin.

~ The project consists of WWTP improvements including adding a dewatering system, adding telemetry and SCADA, and repairing the effluent discharge pipe discharge; I/I reduction by rehabilitating 16,537 lf of 8-inch and 98 manholes; replace 6615 lf of 8-inch and 6 manholes; and installing 1750 lf of 8-inch sewers and upgrading an existing pump station to eliminate 50 septic systems.

~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; and Construction Contingency.

~ The Town previously received CWMTF grant 1999B-515 for \$95,000 for emergency power generator and CWMTF grant 2001A-509 for \$296,000 for WWTP improvements.

~ Matching funds are proposed to be provided by the Town of St. Pauls using available \$57,895 Local Match and a \$100,000 Rural Center grant, which the Town will apply for. The Town's application indicates that Design and Permitting will start after CWMTF award. If Design & Permitting and the sewer line rehabilitation work to reduce I/I were funded at the same 95% amount as the proposed overall budget, the CWMTF grant would be approximately \$2,173,000 and the Town's match would be \$114,575.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-534	St. Pauls, Town of - WW/ Sewer Rehabilitation, Big Marsh Swamp	Robeson	Southern Coastal Plain

CONDITIONS

~ Applicant must provide a copy of the approved plans & specifications produced and the permits obtained during the design of the WWTP work and sewer lines for septic systems elimination, which will be required for construction of the project.

~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

~ 10/12/08: Staff supports funding up to \$2,173,000 for Engineering Design & Permitting of all the proposed work and construction of the sewer line rehabilitation work to reduce I/I. The Town of St. Pauls would provide \$114,575 match. The Town's application indicates that Design and Permitting will start after CWMTF award.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-535	Stumpy Point Water and Sewer District - WW/ Wastewater System Cost Overrun, Stumpy Point Bay	Dare	Northern Coastal Plain

Amount requested:	\$1,524,011	Total Score:	0
Total Project Cost:	\$4,471,542	HB 1095 CC Score (Max 49):	
% Match:	66		

SUMMARY AND WATER QUALITY

River Basin: Pasquotank
Stream Name: Stumpy Point Bay

Waterbody Sensitivity:

County Rank:	79	# Commercial:	
Tier:	2	Linear ft Line:	
Ability to Pay :		\$ / linear ft:	
HUC:	\$60.22	CWMTF \$ / ft:	
W/S Rate:	\$78.42	Volume (gpd) Addressed:	
# Resid Served:		\$ / Gal:	
% Septic Failing:		Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:		CWMTF \$ / lb N:	

SCOPE OF WORK

CONDITIONS

STAFF

~ This request is for the same overrun that the Board approved additional funding for at its June 9 meeting. The County sent a 9-23-08 email requesting to withdraw their application. Staff recommends approving this request.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project Applicant	County Region		
2008-536	Tuckasegee Water and Sewer Authority - WW/ WWTP no. 1 Upgrades, Tuckasegee River	Jackson	Mountains

Amount requested:	\$3,000,000	Total Score:	86
Total Project Cost:	\$4,882,000	HB 1095 CC Score (Max 49):	29
% Match:	39		

SUMMARY AND WATER QUALITY

River Basin: Little Tennessee
 Stream Name: Tuskasegee River
 Waterbody Sensitivity: WS III, B, Tr, rare aquatic species (S3G3), DWS-moderate

County Rank:	77	# Commercial:	466
Tier:	2	Linear ft Line:	
Ability to Pay :	11.06	\$ / linear ft:	
HUC:	\$45.98	CWMTF \$ / ft:	
W/S Rate:	\$43.01	Volume (gpd) Addressed:	1,500,000
# Resid Served:	1,841	\$ / Gal:	\$3.25
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	415
Total \$ / Residence:	\$2,652	CWMTF \$ / lb N:	\$7,229

SCOPE OF WORK

- ~ The project proposes to upgrade the existing 1.5 MGD WWTP No. 1 for compliance. TWSA WWTP No. 1 is unable to consistently comply with NPDES permit limits and has been operating under a Special Order by Consent since December 2006, which requires TWSA to submit plans and specifications for an upgrade to WWTP No. 1 prior to September 1, 2008, which has been completed and all permits are in-hand except Authorization-to-Construct. The DWQ NPDES Unit's 9/8/08 memo was written in support of the project.
- ~ The project will improve the TWSA WWTP No. 1 performance and improve consistency in complying with the NPDES permit limits, which will reduce pollutant loading in the Tuckasegee River (WS III, B, Tr, rare aquatic species (S3G3), DWS-moderate) in the Little Tennessee River basin.
- ~ The project consists of new mechanical bar screen, grit removal system, influent pumps, a single basin sequencing batch reactor, and modifications to existing basins. The current level of treatment level is secondary will the WWTP will still provide secondary treatment after the upgrade.
- ~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; Construction Contingency; and Legal Costs.
- ~ TWSA previously received a CWMTF grant (2003A-514) for \$353,000 for the Dick's Gap Sewer Line project, which is complete. TWSA also received a CWMTF grant (2005B-515) for \$2,000,000 for the Rhodes Cove Sewer Line project and none of these funds have been spent.
- ~ Matching funds of \$1,882,000 will be provided by the Tuckasegee Water and Sewer Authority. TWSA has applied for a \$500,000 NC Rural Center Grant and is also pursuing a USDA loan.

CONDITIONS

- ~ Application indicates that the current average water/sewer bill is below the HUC threshold for Jackson County. Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

STAFF

- ~ 10/12/08: Staff supports funding this project up to the requested amount of \$3,000,000 but suggests deferring the funding decision until the November 2008 Board Meeting.

<i>Project Applicant</i>	<i>County Region</i>		
2008-536	Tuckaseegee Water and Sewer Authority - WW/ WWTP no. 1 Upgrades, Tuckaseegee River	Jackson	Mountains

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-537	Vass, Town of - WW/ Vass and Crystal Lake Regionalization, Little River	Moore	Eastern Piedmont

Amount requested:	\$3,000,000	Total Score:	94
Total Project Cost:	\$4,225,000	HB 1095 CC Score (Max 49):	33
% Match:	29		

SUMMARY AND WATER QUALITY

River Basin: Cape Fear

Stream Name: Little River

Waterbody Sensitivity: WS III, HQW, 303(d), rare aquatic species (S3G5), DWS-higher

County Rank:	87	# Commercial:	44
Tier:	3	Linear ft Line:	63,000
Ability to Pay :	3.99	\$ / linear ft:	\$67
HUC:	\$54.75	CWMTF \$ / ft:	\$48
W/S Rate:	\$63.63	Volume (gpd) Addressed:	76,260
# Resid Served:	146	\$ / Gal:	\$55.40
% Septic Failing:		Lbs/yr Nitrogen Reduced:	835
Total \$ / Residence:	\$28,938	CWMTF \$ / lb N:	\$3,593

SCOPE OF WORK

~ The regionalization project would eliminate the Vass WWTP (0.062 MGD), Crystal Lake WWTP (0.012 MGD), and Cameron Elementary School septic system and transport their wastewater to an existing gravity sewer in Southern Pines. The wastewater would be treated at the Moore County WWTP. The Crystal Lake WWTP is privately owned and the owner has indicated that he would be willing to decommission the WWTP if it is financially viable for him. The Vass WWTP has several Notice of Violations. The Crystal Lake WWTP is in compliance. The application did not indicate that the Cameron Elementary School septic system is causing water quality problems. The DWQ NPDES Unit's 9/8/08 memo was written in support of the project.

~The regionalization project would eliminate the Vass WWTP (0.062MGD), Crystal Lake WWTP (0.012MGD), and Cameron Elementary School septic system and reduce pollutant loading in the Little River (WS III, HQW, 303(d), rare aquatic species (S3G5), DWS-higher) in the Cape Fear River basin.

~ The project consists of 4 pump stations and approximately 63,000 lf of force main to transport wastewater to an existing gravity sewer in Southern Pines.

~ The application budget requests CWMTF funding for a portion of Construction.

~ The Town has not previously received a CWMTF grant.

~ Matching funds will be provided by the Town of Vass using available Local Match. The Town is also applying for a Rural Center grant. Based on information from the Town, the cost of Design & Permitting and Land and/or Easement Acquisition for all of the work except the line to serve the school is \$270,000. If this were funded at the same 71% amount as the proposed overall budget, the CWMTF grant would be approximately \$192,000 and the Town's match would be \$78,000.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-537	Vass, Town of - WW/ Vass and Crystal Lake Regionalization, Little River	Moore	Eastern Piedmont

CONDITIONS

- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

~ 10/12/08: Staff supports funding up to \$192,000 for Engineering Design & Permitting and Land and/or Easement Acquisition for the entire project except the line to eliminate the Cameron Elementary School septic system. The Town of Vass would provide \$78,000 match. The Town's application indicates that Design and Permitting will start after CWMTF award.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-538	Walnut Island Sanitary District - WW/ WWTP Upgrade, Poplar Branch Bay	Currituck	Northern Coastal Plain

Amount requested:	\$500,000	Total Score:	97
Total Project Cost:	\$1,500,000	HB 1095 CC Score (Max 49):	40
% Match:	67		

SUMMARY AND WATER QUALITY

River Basin: Pasquotank
Stream Name: Poplar Branch Bay
Waterbody Sensitivity: SC, 303(d), DCM exceptional wetlands

County Rank:	80	# Commercial:	0
Tier:	2	Linear ft Line:	15,200
Ability to Pay:	18.34	\$ / linear ft:	\$99
HUC:	\$66.54	CWMTF \$ / ft:	\$33
W/S Rate:	\$70.00	Volume (gpd) Addressed:	30,000
# Resid Served:	237	\$ / Gal:	\$50.00
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	328
Total \$ / Residence:	\$6,329	CWMTF \$ / lb N:	\$1,524

SCOPE OF WORK

~ The project proposes eliminating the Sanitary District's existing low pressure subsurface system & connecting to the Waterside Village privately owned WWTP. The connection to Waterside Village was recommended by Currituck County and NCDWQ. The low pressure (LPP) system is permitted for 30,000 gpd and sometimes exceeds the permit limits during rain events. The District also proposes to rehabilitate the sewer system to reduce I/I. The LPP system also does not comply with nitrite and nitrate removal requirements.

~ The project will eliminate the District's WWTP and reduce pollutant loading in Poplar Branch Bay (SC, 303(d), DCM exceptional wetlands) in the Pasquotank River basin.

~ The project consists of 12,500 lf of 8-inch gravity sewer; 2,700 lf of 4-inch force main; and 3 pump stations.

~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; Legal Costs; and Project Admin. Costs.

~ Walnut Island Sanitary District has not previously received a CWMTF grant.

~ Matching funds of \$1,000,000 will be provided by the District using \$500,000 available Local Match and a \$500,000 grant from the NC Rural Center, which has been awarded.

CONDITIONS

~ Applicant shall provide a letter requesting the permit for the LPP system to be rescinded.

~ District must provide an inter-local agreement with the Waterside Village. The agreement must include the amount of wastewater that Waterside Village has agreed to accept from the District.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-538	Walnut Island Sanitary District - WW/ WWTP Upgrade, Poplar Branch Bay	Currituck	Northern Coastal Plain

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$500,000. The District indicated design was 90% complete when application was submitted.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-539	Warsaw, Town of - WW/ Sewer Rehabilitation, Stewart's Creek	Duplin	Southern Coastal Plain

Amount requested:	\$400,000	Total Score:	60
Total Project Cost:	\$500,000	HB 1095 CC Score (Max 49):	34
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin:	Cape Fear		
Stream Name:	Stewart's Creek		
Waterbody Sensitivity:	C, Sw		
County Rank:	27	# Commercial:	193
Tier:	1	Linear ft Line:	3,538
Ability to Pay:	3.02	\$ / linear ft:	\$141
HUC:	\$32.76	CWMTF \$ / ft:	\$113
W/S Rate:	\$42.60	Volume (gpd) Addressed:	135,600
# Resid Served:	1,172	\$ / Gal:	\$3.69
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	190
Total \$ / Residence:	\$427	CWMTF \$ / lb N:	\$2,105

SCOPE OF WORK

~ The project proposes replacing 8-inch sewers to reduce I/I flow. This work is part of an ongoing effort by the Town to address I/I problems. The Town has replaced approximately 50,000 lf of sewers since 1991 at a cost of approximately \$4.1M. The application lists 31 SSO incidents between January 1999 and December 2006, which resulted in spills to Stewart's Creek. The Town received a NOV from DWQ in March 2008 for a permit violation at the WWTP. DWQ's comments on this project discussed the SSO's and the need for I/I reduction.

~ The project will mitigate overflows and also reduce hydraulic loading at the Town's WWTP. The I/I reduction would reduce upsets at the WWTP, improve effluent quality during periods of high I/I. The project work would improve water quality in Stewart's Creek (C, Sw) in the Cape Fear River basin.

~ The project would consist of replacing approximately 3,600 lf of 8-inch sewers..

~ The application budget requests CWMTF funding for Construction and a portion of Construction Contingency.

~ The Town has not previously received a CWMTF grant.

~ Matching funds of \$100,000 will be provided by the Town of Warsaw using local funding. The Town also plans to apply to the Rural Center for additional funding and may expand the scope of the rehabilitation work if they obtain the funding.

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$400,000. Application indicates Design & Permitting will start after CWMTF grant award. Design & Permitting usually does not take long to complete for sewer rehabilitation projects.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-540	Wilkesboro, Town of - WW/ Sewer Rehabilitation, Cub Creek	Wilkes	Northern Mountains/Western Piedmont

<i>Amount requested:</i>	\$488,000	<i>Total Score:</i>	0
<i>Total Project Cost:</i>	\$610,000	<i>HB 1095 CC Score (Max 49):</i>	
<i>% Match:</i>	20		

SUMMARY AND WATER QUALITY

River Basin: Yadkin
 Stream Name: Cub Creek
 Waterbody Sensitivity: C, WRC Tr, DWS-higher

County Rank:	42	# Commercial:	
Tier:	2	Linear ft Line:	
Ability to Pay :	8.23	\$ / linear ft:	
HUC:	\$56.15	CWMTF \$ / ft:	
W/S Rate:	\$18.92	Volume (gpd) Addressed:	
# Resid Served:		\$ / Gal:	
% Septic Failing:		Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:		CWMTF \$ / lb N:	

SCOPE OF WORK

CONDITIONS

STAFF

~ 10-12-08 Staff recommends not funding this project. Applicant indicated their average monthly residential water/sewer bill is below the HUC threshold and they do not intend to increase their billing rates.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-541	Wilson, City of - WW/ Reuse System Upgrades, Hominy Creek	Wilson	Eastern Piedmont

Amount requested:	\$700,000	Total Score:	111
Total Project Cost:	\$950,000	HB 1095 CC Score (Max 49):	41
% Match:	26		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Hominy Creek
Waterbody Sensitivity: C, Sw, NSW, urban 303(d), EEP local watershed plan

County Rank:	31	# Commercial:	
Tier:	1	Linear ft Line:	24,000
Ability to Pay :	9.05	\$ / linear ft:	\$40
HUC:	\$42.94	CWMTF \$ / ft:	\$29
W/S Rate:	\$64.15	Volume (gpd) Addressed:	143,127
# Resid Served:		\$ / Gal:	\$6.64
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	1,567
Total \$ / Residence:		CWMTF \$ / lb N:	\$447

SCOPE OF WORK

~ The project proposes to expand the City's reclaimed water disposal system by installing two irrigation systems will consist of 15 acres of baseball and soccer fields within the Gillette Athletic Complex and Toisnot Park; and 22 acres adjacent to the Hominy Creek WWTP where turf grass will be grown that will be used by the City on existing recreational areas. The project will also study an area located south of the WWTP to determine feasibility of installing low rate infiltration basins for disposal of treated reuse quality effluent.

~ The project proposes to reduce the discharge from the City's WWTP and reduce nutrient and pollutant loading in Hominy Creek (C, Sw, NSW, urban 303(d), EEP local watershed plan) by approximately 143,000 gpd.

The project would improve water quality in Hominy Creek in the Neuse River basin.

~ The project consists of installing 24,000 lf of 1.5, 3, 6, and 8-inch reclaimed water main and irrigation piping and sprinkler heads for 2 irrigation systems that will discharge onto 37 acres. The disposal areas will consist 15 acres within the Gillette Athletic Complex & Toisnot Park; and 22 acres adjacent to the Hominy Creek WWTP; constructing one booster station with controls at Gillette Athletic Complex, and one at the WWTP. The project will also study an area to determine feasibility of low rate infiltration basins for disposal of effluent.

~ The application budget requests CWMTF funding for a portion of Engineering Design & Permitting; Construction; Construction Admin/Observation; and Construction Contingency.

~ The City previously received CWMTF grant 1997B-304 for \$803,350 to install a reuse irrigation system; 2004A-514 for \$1,196,000 to expand the reuse disposal system; 2005B-810 for \$27,000 for a greenway development study; 2006A-535 for \$1,323,000 to expand the reuse water main system; and 2007S-011 for \$50,000 for a stormwater study. CWMTF grants 1997B-304, 2004A-514, and 2005B-810 are completed.

~ Matching funds of \$250,000 will be provided by the City of Wilson using local funding, which is available.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-541	Wilson, City of - WW/ Reuse System Upgrades, Hominy Creek	Wilson	Eastern Piedmont

CONDITIONS

~ Provide a report and a Final Report that includes a recommendation concerning feasibility of installing low rate infiltration basins for disposal of treated reuse quality effluent. If the low rate infiltration basins are recommended the report should include a scope of work and cost estimate for the work.

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$700,000. The City indicated design and permitting 30% complete when application was submitted. The City's consultant's 7/14/08 letter indicates that design & permitting is expected to be complete in November 2008.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-542	Windsor, Town of - WW/ Sewer Rehabilitation, Cashie River	Bertie	Northern Coastal Plain

<i>Amount requested:</i>	\$1,146,550	<i>Total Score:</i>	61
<i>Total Project Cost:</i>	\$1,646,550	<i>HB 1095 CC Score (Max 49):</i>	35
<i>% Match:</i>	30		

SUMMARY AND WATER QUALITY

River Basin: Roanoke
 Stream Name: Cashie River
 Waterbody Sensitivity: C,Sw, DCM exceptional wetland, NHSA

County Rank:	1	# Commercial:	4
Tier:	1	Linear ft Line:	13,500
Ability to Pay:	5.29	\$ / linear ft:	\$122
HUC:	\$35.36	CWMTF \$ / ft:	\$85
W/S Rate:	\$32.96	Volume (gpd) Addressed:	30,200
# Resid Served:	1,614	\$ / Gal:	\$54.52
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	329
Total \$ / Residence:	\$1,020	CWMTF \$ / lb N:	\$3,485

SCOPE OF WORK

- ~ The project proposes to rehabilitate of 8-inch sewers; replace sewer service connections, and TV & cleaning of sewers. Documentation of overflows was submitted. Windsor has experienced 37 Sanitary Sewer Overflows in the last 5 years and 25 of them occurred in the project area or immediately downstream of the project area. Of the 37 SSO's, 30 were directly attributable to rainfall events.
- ~ The project will mitigate overflows and also reduce hydraulic loading at the Town's WWTP, which discharges into the Cashie River (C, Sw, DCM exceptional wetland, NHSA) in the Roanoke River basin. The reduction of I/I flow to the WWTP, will reduce effluent quantity and may improve effluent quality during heavy rainfall events and during periods of wet weather.
- ~ The project consists of rehabilitating 13,500 lf of 8-inch and 20 point repairs; replacing 280 4-inch sewer service connections, 40 manholes; and TV & cleaning of 13,500 lf of sewers.
- ~ The application budget requests CWMTF funding for Engineering Design & Permitting; Construction Admin/Observation; Construction Contingency; Legal Costs; and a portion of Construction.
- ~ The Town previously received CWMTF grant 2006A-046 for \$210,000 for a conservation easement. The work is in progress.
- ~ Matching funds of \$500,000 will be provided by the Town of Windsor using a \$500,000 NC Rural Center grant, which the Town has applied for.

CONDITIONS

- ~ Application indicates that the current average water/sewer bill is below the HUC threshold for the Town of Windsor. The Town has passed a resolution that they will raise rates as needed if the project is approved for CWMTF funding.
- ~ Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-542	Windsor, Town of - WW/ Sewer Rehabilitation, Cashie River	Bertie	Northern Coastal Plain

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$1,147,000. Application indicates Design & Permitting will start after CWMTF grant award. Design & Permitting usually does not take long to complete for sewer rehabilitation projects.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-543	Youngsville, Town of - WW/ Sewer Rehabilitation, Hattles Branch	Franklin	Eastern Piedmont

Amount requested:	\$734,220	Total Score:	85
Total Project Cost:	\$919,280	HB 1095 CC Score (Max 49):	31
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin: Tar-Pamlico / Neuse
Stream Name: Hattles Branch / Brandy Creek
Waterbody Sensitivity: Hattles Br (Neuse): C, NSW, DWS-moderate Brandy Cr (Tar)
B, NSW, rare aquatic species 10 miles downstream (S1G1, S3G3)

County Rank:	83	# Commercial:	0
Tier:	3	Linear ft Line:	15,500
Ability to Pay:	5.91	\$ / linear ft:	\$59
HUC:	\$59.31	CWMTF \$ / ft:	\$47
W/S Rate:	\$71.88	Volume (gpd) Addressed:	150,000
# Resid Served:	850	\$ / Gal:	\$6.13
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	1,112
Total \$ / Residence:	\$1,082	CWMTF \$ / lb N:	\$660

SCOPE OF WORK

~ 2008 - The project proposes rehabilitating and cleaning the Town's sewer mains. The project would consist of cleaning and relining 15,500 l.f. of 8-inch & 10-inch sewers and rehabilitating 45 manholes. There have been overflows due to I/I. DWQ sent a letter to Youngsville concerning compliance issues at the Franklin County WWTP, because DWQ believes that that Youngsville's I/I may be partly responsible for the problem and for some overflows.

~ The project would mitigate overflows and improve water quality in Hattles Branch (C, NSW, DWS-moderate) in the Neuse River basin and Brandy Creek (B, NSW, rare aquatic species 10 miles downstream (S1G1, S3G3)) in the Tar River basin. It would also reduce hydraulic loading at the Franklin County WWTP, which may improve effluent quality during periods of high I/I and improve water quality in Cedar Creek (C, NSW) in the Tar River basin.

~ The application budget requests CWMTF funding for a portion of Design & Permitting; Construction; Construction Admin/Observation; Construction Contingency; and Project Admin. Costs.

~ The Town has not previously received a CWMTF grant.

~ Matching funds of \$185,060 would be provided by the Town of Youngsville using a loan, which the Town is pursuing.

CONDITIONS

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$734,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-601	Hoke County - Septic/ McDougal Downs, Puppy Creek	Hoke	Eastern Piedmont

Amount requested:	\$2,834,170	Total Score:	82
Total Project Cost:	\$3,535,170	HB 1095 CC Score (Max 49):	27
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin: Cape Fear
Stream Name: Puppy Creek
Waterbody Sensitivity: Puppy Cr: C. Rockfish Cr, 4 miles away is 303(d) and has SNHA at mouth of Puppy Creek; Puppy Crk = 0 pts. Rockfish Crk = 20 pts

County Rank:	46	# Commercial:	0
Tier:	2	Linear ft Line:	23,760
Ability to Pay:	2.13	\$ / linear ft:	\$149
HUC:	\$48.18	CWMTF \$ / ft:	\$119
W/S Rate:	\$69.11	Volume (gpd) Addressed:	73,080
# Resid Served:	203	\$ / Gal:	\$48.37
% Septic Failing:	6%	Lbs/yr Nitrogen Reduced:	426
Total \$ / Residence:	\$17,415	CWMTF \$ / lb N:	\$6,653

SCOPE OF WORK

~ The project proposes installing gravity sewers, a pump station and force main to serve 203 residences. A County Health Dept survey of a 32 residence sample indicates that approximately 6% of the septic systems are failing now. Sewers will transport wastewater to collection system that is tributary to the Fayetteville PWC Rockfish Creek WWTP. The DWQ NPDES unit's 9/8/08 memo supports the project as improving water quality in Puppy Creek.

~ The project will eliminate failing septic systems and systems that may fail in the future, which will improve water quality in Puppy Creek (C) and Rockfish Creek (303(d) and has SNHA at mouth of Puppy Creek) in the Cape Fear River basin.

~ The project consists of 10,560 lf of gravity sewers; a pump station; and 13,200 lf of force main to eliminate 203 septic systems. .

~ The application budget requests CWMTF funding for Land Surveying; Easement Preparation; Land and/or Easement Acquisition; Construction Admin/Observation; Construction Contingency; and Project Admin. Costs; and a portion of Engineering Design & Permitting; Construction; Legal Costs; and an Educational Program.

~ The County has not previously received a CWMTF grant.

~ Matching funds of \$701,000 will be provided by Hoke County using local funding. Design & Permitting, Land Surveying, Easement Preparation, and Land and/or Easement Acquisition is shown in the Budget Template as \$682,970. If this work was funded at the same 80% amount as the proposed overall budget, the CWMTF grant would be approximately \$547,000 and the Town's match would be \$135,970.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-601	Hoke County - Septic/ McDougal Downs, Puppy Creek	Hoke	Eastern Piedmont

CONDITIONS

- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

STAFF

~ 10/12/08: Staff recommends not funding this project. There are very few failing systems and the cost benefit is very low. Also, it appears that this may be a "growth" project.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-602	Maple Hill Sewer District - Septic/ WW Collection and Treatment, Holly Shelter Creek	Pender	Southern Coastal Plain

Amount requested:	\$1,462,636	Total Score:	86
Total Project Cost:	\$4,282,000	HB 1095 CC Score (Max 49):	30
% Match:	66		

SUMMARY AND WATER QUALITY

River Basin: Cape Fear
Stream Name: Holly Shelter Creek
Waterbody Sensitivity: C, Sw, NHP rare wetland, DCM exceptional wetland

County Rank:	76	# Commercial:	0
Tier:	2	Linear ft Line:	56,400
Ability to Pay:	8.60	\$ / linear ft:	\$76
HUC:	\$25.22	CWMTF \$ / ft:	\$26
W/S Rate:	\$28.00	Volume (gpd) Addressed:	61,560
# Resid Served:	171	\$ / Gal:	\$69.56
% Septic Failing:	71%	Lbs/yr Nitrogen Reduced:	4,235
Total \$ / Residence:	\$25,041	CWMTF \$ / lb N:	\$345

SCOPE OF WORK

~ The project proposes replacing 171 existing septic tanks with STEP systems and installing low pressure collection lines to transport the wastewater to a wastewater treatment system. The effluent will be land disposed. Based on a survey of 93 out of the 171 homes and extrapolating, it is estimated that the project will eliminate 87 failing septic systems, 4 straight pipe blackwater, 32 gray water, and 48 systems that are not failing.

~ The project will eliminate failing septic systems and straight pipe discharges, which will improve water quality in Holly Shelter Creek (C, Sw, NHP rare wetland, DCM exceptional wetland) in the Cape Fear River basin.

~ The project consists of replacing 171 existing septic tanks with STEP systems; 56,400 lf of 1.25-inch to 6-inch low pressure collection sewers; a wastewater treatment system; and land disposal of effluent on 60 acres.

~ The application budget requests CWMTF funding for a portion of Construction; Construction Admin/Observation; Construction Contingency; Legal Costs; and Project Admin. Costs.

~ The District has not previously received a CWMTF grant.

~ Matching funds of \$2,819,364 will be provided by the Maple Hill Sewer District using available \$42,750 Local Match, a \$2,774,614 NC Rural Center Grant, and \$2,000 Cape Fear RC&D funds.

CONDITIONS

STAFF

~ Staff Recommendation 10/12/08: Staff supports funding this project up to the requested amount of \$1,463,000. The District has indicated an estimated Design completion date of November 2008.

~ Funding limit cost/residence (using the February 2008 criteria) = \$19,200/residence x 171 residences = \$3,288,200, which is greater than the \$1,463,000 request. Therefore, the funding limit is not an issue.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-602	Maple Hill Sewer District - Septic/ WW Collection and Treatment, Holly Shelter Creek	Pender	Southern Coastal Plain

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-603	Nags Head, Town of - Septic/ Septic Tank Replacement, Roanoke Sound	Dare	Northern Coastal Plain

Amount requested:	\$200,000	Total Score:	101
Total Project Cost:	\$504,000	HB 1095 CC Score (Max 49):	27
% Match:	60		

SUMMARY AND WATER QUALITY

River Basin: Pasquotank
Stream Name: Roanoke Sound

Waterbody Sensitivity: SA open, rare aquatic species (S3), DCM exceptional wetland

County Rank:	79	# Commercial:	0
Tier:	2	Linear ft Line:	
Ability to Pay:	11.88	\$ / linear ft:	
HUC:	\$75.39	CWMTF \$ / ft:	
W/S Rate:	\$65.21	Volume (gpd) Addressed:	129,100
# Resid Served:	269	\$ / Gal:	\$3.90
% Septic Failing:	100%	Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:	\$1,874	CWMTF \$ / lb N:	

SCOPE OF WORK

- ~ The project proposes establishing a revolving grant/loan program to voluntarily replace failing non-compliant sand bottom septic tanks. Sand bottom tanks are classified as failing based on State rules. The Town estimates 900 residences in the town have septic tanks without a bottom. The project funding would be enough to repair 269 septic systems.
- ~ The project will repair failing septic systems and reduce pollutant loading to groundwater and the Roanoke Sound (SA open, rare aquatic species (S3), DCM exceptional wetland) in the Pasquotank River basin.
- ~ The project will consist of establishing a revolving grant/loan program to voluntarily replace sand bottom septic tanks. The details of the funding have not been finalized. The scenario offered in the applicant assumes the cost of a repair is \$3000, the Town will offer funding as a 35% grant and the remainder as a 5-year loan at 4% interest.
- ~ The application budget requests CWMTF funding for a portion of Construction.
- ~ The Town previously received a CWMTF grant (2002A-014) for \$400,000 for property acquisition.
- ~ Matching funds of \$304,000 will be provided by the Town of Nags Head using available Local Match and a NCCG&L loan, which the Town has applied for.

CONDITIONS

- ~ Provide a report that includes a detailed plan for the funding, which would provide financial assistance to residents as a revolving loan/grant program.
- ~ Program will focus on qualifying lower income homeowners.
- ~ Application indicates that the current average water/sewer bill is below the HUC threshold for Nags Head. Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-603	Nags Head, Town of - Septic/ Septic Tank Replacement, Roanoke Sound	Dare	Northern Coastal Plain

STAFF

~ Staff Recommendation 10/12/08: Staff supports funding this project up to the requested amount of \$200,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-604	North Wilkesboro, Town of - Septic/Damascus Church Road, Little Cub Creek	Wilkes	Northern Mountains/Western Piedmont

<i>Amount requested:</i>	\$1,166,640	<i>Total Score:</i>	89
<i>Total Project Cost:</i>	\$1,766,640	<i>HB 1095 CC Score (Max 49):</i>	33
<i>% Match:</i>	34		

SUMMARY AND WATER QUALITY

River Basin: Yadkin
Stream Name: Little Cub Creek
Waterbody Sensitivity: C, Tr, DWS-higher

County Rank:	42	# Commercial:	0
Tier:	2	Linear ft Line:	13,000
Ability to Pay:	4.10	\$ / linear ft:	\$136
HUC:	\$31.25	CWMTF \$ / ft:	\$90
W/S Rate:	\$34.00	Volume (gpd) Addressed:	11,040
# Resid Served:	58	\$ / Gal:	\$160.02
% Septic Failing:	79	Lbs/yr Nitrogen Reduced:	2,030
Total \$ / Residence:	\$30,459	CWMTF \$ / lb N:	\$575

SCOPE OF WORK

~ The project proposes installing 8-inch diameter gravity sewers to serve 58 properties. The work will consist of approximately 13,000 lf of 8" gravity sewer on the north and south sides of Damascus Church Road to the existing Lincoln Heights sewer pump station and then to the Town of N. Wilkesboro's WWTP. The project will eliminate 34 failing septic systems, 12 straight pipe discharges, and 12 systems that are not failing.

~ The project will eliminate failing septic systems and straight pipe discharges, which will improve water quality in Little Cub Creek (C, Tr, DWS-higher).

~ The application budget requests CWMTF funding for all of Land and/or Easement Acquisition, Construction Admin/Observation, Legal Costs, and Construction Contingency; and for a portion of Construction.

~ The Town previously received a CWMTF grant (2001A-510) for Mulberry Creek Outfall, which is completed. The Town received a CWMTF grant (2007-614) for \$100,000 for Engineering Design & Permitting, and the work is on going.

~ Matching funds will consist of local cash match of \$100,000 from the Wilkes County and a \$500,000 NC Rural Center grant, which has been awarded.

CONDITIONS

~ Application indicates that the current average water/sewer bill is below the 2008 HUC threshold.

Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

~ Town must provide a brief report concerning the proposed public education outreach effort that is discussed in the application.

~ The Town must provide a brief report concerning their efforts to implement greenways as discussed in the project application. The application mentions connectivity to North Wilkesboro's greenway network via the Wade Island Bridge and the adjacent Highland Park neighborhood.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-604	North Wilkesboro, Town of - Septic/ Damascus Church Road, Little Cub Creek	Wilkes	Northern Mountains/Western Piedmont

STAFF

~ 10/12/08: Staff supports funding this project up to a reduced amount of \$1,071,000. This funding amount is based on a funding limit of \$18,464 cost/residence for 58 residences. Design work is underway and plans are expected to be submitted to review agencies in November 2008.

~ Funding limit cost/residence (using the February 2008 criteria) = \$18,464/residence x 58 residences = \$1,071,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-605	Red Oak, Town of - Septic/ Collection System Construction, Stony Creek	Nash	Northern Coastal Plain

Amount requested:	\$925,000	Total Score:	98
Total Project Cost:	\$1,999,000	HB 1095 CC Score (Max 49):	35
% Match:	54		

SUMMARY AND WATER QUALITY

River Basin:	Tar-Pamlico		
Stream Name:	Stony Creek		
Waterbody Sensitivity:	C, NSW, urban 303(d), DWS-higher		
County Rank:	51	# Commercial:	2
Tier:	2	Linear ft Line:	26,800
Ability to Pay:	7.21	\$ / linear ft:	\$75
HUC:	\$36.44	CWMTF \$ / ft:	\$35
W/S Rate:	\$39.78	Volume (gpd) Addressed:	48,000
# Resid Served:	50	\$ / Gal:	\$41.65
% Septic Failing:	50%	Lbs/yr Nitrogen Reduced:	2,079
Total \$ / Residence:	\$39,980	CWMTF \$ / lb N:	\$445

SCOPE OF WORK

- ~ The proposed project is for construction of a pump station and force main to eliminate the septic system at Red Oak Elementary School and Red Oak Middle School. Red Oak Elementary School has provided documentation of septic system failures and the requirement for pump & haul. The Middle School system is not failing.
- ~ The project consists of a collection system to serve 2 schools that are on septic systems now. System would consist of 9200 lf of 12-inch gravity sewer, 50 sewer connections, a pump station, and 17,600 lf of 6-inch force main.
- ~ The project would reduce pollutant loadings to Stony Creek (C, NSW, urban 303(d), DWS-higher) in the Tar-Pamlico River basin.
- ~ The application budget requests CWMTF funding for a portion of Construction.
- ~ The Town previously received a CWMTF grant (2007-617) for \$74,000 for only Design and Permitting for this project work.
- ~ The application proposes matching funds will be provided by the Town of Red Oak using \$500,000 available local cash and a \$500,000 NC Rural Center grant, which has been applied for.

CONDITIONS

- ~ Application indicates that the current average water/sewer bill is below the 2008 HUC threshold. Applicant must provide resolution to establish water/sewer rates high enough to increase the average water/sewer bill to be above the High Unit Cost threshold.

STAFF

- ~ 10/12/08: Staff suggests not funding this project in the 2008 cycle. The application indicates that project design will begin when negotiations with Rocky Mount (for wastewater treatment) and Nash County (for system operation) are finalized.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-821	Candlewick Sanitary District - Plan/WW/ Feasibility Study, Little Contentnea Creek	Pitt	Southern Coastal Plain

Amount requested:	\$40,000	Total Score:	79
Total Project Cost:	\$50,000	HB 1095 CC Score (Max 49):	33
% Match:	20		

SUMMARY AND WATER QUALITY

River Basin: Neuse
Stream Name: Contentnea Creek
Waterbody Sensitivity: C, Sw, NSW, 303(d),

County Rank:	50	# Commercial:
Tier:	2	Linear ft Line:
Ability to Pay:	21.28	\$ / linear ft:
HUC:	\$22.94	CWMTF \$ / ft:
W/S Rate:	\$46.70	Volume (gpd) Addressed:
# Resid Served:		\$ / Gal:
% Septic Failing:		Lbs/yr Nitrogen Reduced:
Total \$ / Residence:		CWMTF \$ / lb N:

SCOPE OF WORK

- ~ The project consists of a study to determine the scope of Candlewick Subdivision's septic system problem and determine the recommended method to resolve problem.
- ~ A septic tank elimination project, which may follow this study, improve water quality in Little Contentnea Creek (C, Sw, NSW, 303(d)) in the Neuse River basin.
- ~ The application indicates that the subdivision, which consists of 75 homes, has a current septic system problem. The County Health Dept. provided a letter in support of the project that included a list of systems repaired and repair permits issued. Alternatives that may be considered include innovative on-site systems; central sewer with a new WWTP; and provide a central sewer and pump to the nearest municipal system.
- ~ The application budget requests CWMTF funding for a portion of Outside Consultant costs.
- ~ The Candlewick Sanitary District has not previously received a CWMTF grant.
- ~ Matching funds of \$10,000 will be provided by Candlewick Sanitary District.

CONDITIONS

- ~ Provide a report and a Final Report that includes a Scope of Work for eliminating the failing septic systems.

STAFF

- ~ Staff Recommendation 10/12/08: Staff supports funding this project up to the requested amount of \$40,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-822	Environmental Defense - Plan/WW/ SWINE Waste Management System and Technical Assistance Planning	Regional	Statewide/Regional

Amount requested:	\$1,296,517	Total Score:	0
Total Project Cost:	\$1,296,517	HB 1095 CC Score (Max 49):	
% Match:	0		

SUMMARY AND WATER QUALITY

River Basin: Regional

Stream Name: na

Waterbody Sensitivity:

County Rank:

Tier:

Ability to Pay :

HUC:

W/S Rate:

Resid Served:

% Septic Failing:

Total \$ / Residence:

Commercial:

Linear ft Line:

\$ / linear ft:

CWMTF \$ / ft:

Volume (gpd) Addressed:

\$ / Gal:

Lbs/yr Nitrogen Reduced:

CWMTF \$ / lb N:

SCOPE OF WORK

ENVIRONMENTAL DEFENSE

CONDITIONS

STAFF

~ Staff does not support funding this project. The proposed project is not within the scope of the activities that CWMTF funds. Direct WQ benefits are not readily apparent.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-823	Farmville, Town of - Plan/WW/ Preliminary Engineering Report, Middle Swamp Outfall	Pitt	Southern Coastal Plain

Amount requested:	\$100,000	Total Score:	66
Total Project Cost:	\$126,000	HB 1095 CC Score (Max 49):	35
% Match:	21		

SUMMARY AND WATER QUALITY

River Basin: Neuse
 Stream Name: Middle Swamp Outfall
 Waterbody Sensitivity: C, Sw, NSW

County Rank:	50	# Commercial:	
Tier:	2	Linear ft Line:	
Ability to Pay :	6.59	\$ / linear ft:	
HUC:	\$40.81	CWMTF \$ / ft:	
W/S Rate:	\$49.52	Volume (gpd) Addressed:	
# Resid Served:		\$ / Gal:	
% Septic Failing:	NA	Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:		CWMTF \$ / lb N:	

SCOPE OF WORK

- ~ The project proposes to develop construction drawings to complete point repairs to the Middle Swamp sewer line. Also, an Engineering Report will be prepared that evaluates alternatives to allow sewer infrastructure to be accessed and maintained while providing optimal protection to surface water. Documentation of overflows was submitted.
- ~ Sewer system rehabilitation, which may follow this study, would mitigate overflows and reduce hydraulic loading at the Town's WWTP, which discharges into Little Contentnea Creek in the Neuse River basin. The reduction of I/I flow to the WWTP, will reduce effluent quantity and may improve effluent quality during heavy rainfall events and during periods of wet weather Middle Swamp (C, Sw, NSW) is in the Neuse River basin.
- ~ The project work would consist of video inspection survey, construction drawings for I/I repairs, a Preliminary Engineering Report, and an update to the Town's Capital Improvement Plan.
- ~ The application budget requests CWMTF funding for a portion of Engineering Design; and all of Sewer Video Inspection by Outside Consultant costs.
- ~ The Town of Farmville was previously awarded CWMTF Grant 2003A-506 for \$119,000 for WWTP sludge disposal improvements, which is complete; 2005B-009 property acquisition for \$213,000 and 2005B-402 Bee Branch restoration for \$633,000, which were not done and the funds have been deobligated; and 2005B-506 sewer rehabilitation, which is ongoing.
- ~ Matching funds of \$26,000 will be provided by the Town of Farmville using available cash.

CONDITIONS

- ~ Provide a report and a Final Report that includes a Scope of Work for a sewer rehabilitation project.
- ~ Applicant must provide a copy of the approved plans & specifications and the permits required for construction of the project.
- ~ Providing CWMTF funding for Engineering Design & Permitting does not obligate CWMTF to provide funding for construction of facilities that are included in the scope of the design project and this design funding is not intended as an endorsement of the construction project for future CWMTF funding.

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-823	Farmville, Town of - Plan/WW/ Preliminary Engineering Report, Middle Swamp Outfall	Pitt	Southern Coastal Plain

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$100,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-824	Lake Lure, Town of - Plan/WW/ Sewer Evaluation, Broad River/Lake Lure	Rutherford	Mountains

<i>Amount requested:</i>	\$50,000	<i>Total Score:</i>	95
<i>Total Project Cost:</i>	\$60,000	<i>HB 1095 CC Score (Max 49):</i>	41
<i>% Match:</i>	17		

SUMMARY AND WATER QUALITY

River Basin:	Broad		
Stream Name:	Broad River/Lake Lure		
Waterbody Sensitivity:	C, B, Tr, Excellent bioclass ab Lake Lure, DWS-moderate, SNHA		
County Rank:	18	# Commercial:	
Tier:	1	Linear ft Line:	
Ability to Pay :	7.73	\$ / linear ft:	
HUC:	\$53.11	CWMTF \$ / ft:	
W/S Rate:		Volume (gpd) Addressed:	
# Resid Served:		\$ / Gal:	
% Septic Failing:		Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:		CWMTF \$ / lb N:	

SCOPE OF WORK

- ~ The project proposes an evaluation of alternatives to replace the sewers that are located in the lake and an evaluation of wastewater treatment alternatives.
- ~ Sewer system rehabilitation, which may follow this study, would reduce I/I and thereby reduce hydraulic loading at the Town's WWTP. This would reduce upsets at the WWTP and improve effluent quality during periods of high I/I and improve water quality in Lake Lure and Broad River (C, B, Tr, Excellent bioclass above Lake Lure, DWS-moderate, SNHA).
- ~ The study would evaluate alternatives to replace the sewers that are under the lake; evaluate upgrading the existing WWTP and a new location for the facility; cost analysis for the selected sewer and WWTP alternative; prepare a long range sewer infrastructure map that identifies proposed routes for existing and unserved customers; funding planning and analysis; and recommendation concerning user fees needed to meet expenditures.
- ~ The application budget requests CWMTF funding for a portion of Outside Consultant expenses.
- ~ The Town previously received a CWMTF grant (2005B-804) for \$77,000 to perform an I/I study. The work has been completed. The study recommended additional planning work that is requested in the current application.
- ~ Matching funds of \$10,000 will be provided by the Town of Lake Lure using available cash.

CONDITIONS

- ~ Provide a report and a Final Report that includes a Scope of Work for a sewer rehabilitation project.

STAFF

- ~ 10/12/08: Staff supports funding this project up to the requested amount of \$50,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-825	Red Springs, Town of - Plan/WW/ Collection System Survey, Little Raft Swamp	Robeson	Southern Coastal Plain

<i>Amount requested:</i>	\$25,000	<i>Total Score:</i>	85
<i>Total Project Cost:</i>	\$30,000	<i>HB 1095 CC Score (Max 49):</i>	37
<i>% Match:</i>	17		

SUMMARY AND WATER QUALITY

River Basin: Lumber
 Stream Name: Little Raft Swamp
 Waterbody Sensitivity: C, Sw, urban 303(d), DWS-higher

County Rank:	11	# Commercial:
Tier:	1	Linear ft Line:
Ability to Pay:	4.27	\$ / linear ft:
HUC:	\$33.84	CWMTF \$ / ft:
W/S Rate:	\$44.08	Volume (gpd) Addressed:
# Resid Served:		\$ / Gal:
% Septic Failing:		Lbs/yr Nitrogen Reduced:
Total \$ / Residence:		CWMTF \$ / lb N:

SCOPE OF WORK

~ The project proposes Surveying and GIS mapping of the Town's existing wastewater system. This will be an update to the Town's current mapping information. The work would be used by the Town as part of an ongoing effort to reduce I/I flow. There have been three documented SSO's in 2008 for a total of approximately 6,163,000 gallons. Town indicated that DWQ has advised them that an SOC requirement is forthcoming.

~ Sewer system rehabilitation, which may follow this study, would reduce I/I and mitigate overflows. Reducing I/I would also reduce hydraulic loading at the Town's WWTP and thereby reduce upsets at the WWTP and improve effluent quality during periods of high I/I. This would improve water quality in Little Raft Swamp (C, Sw, urban 303(d), DWS-higher) in the Lumber River basin.

~ The application budget requests CWMTF funding for a portion of Mapping/GIS expenses.

~ The Town previously received a CWMTF grant (2001A-506) for \$351,000 for collection system rehabilitation and the work has been completed. The Town also received a CWMTF grant (2006A-524) for \$1,850,000 for sewer rehabilitation and WWTP upgrades and the work is ongoing.

~ Matching funds of \$5,000 will be provided by the Town of Red Spring using available local cash match.

CONDITIONS

~ Provide a report and a Final Report that includes a Scope of Work for a sewer rehabilitation project.

STAFF

~ 10/12/08: Staff supports funding this project up to the requested amount of \$25,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

<i>Project</i>	<i>Applicant</i>	<i>County</i>	<i>Region</i>
2008-826	Spring Lake, Town of - Plan/WW/ Preliminary Engineering Report, Reuse, Little River	Cumberland	Eastern Piedmont

<i>Amount requested:</i>	\$36,750	<i>Total Score:</i>	93
<i>Total Project Cost:</i>	\$73,500	<i>HB 1095 CC Score (Max 49):</i>	40
<i>% Match:</i>	50		

SUMMARY AND WATER QUALITY

River Basin:	Cape Fear		
Stream Name:	Little River		
Waterbody Sensitivity:	C, 303(d), rare aquatic species (S2G3, S1?G1), DWS-higher		
County Rank:	23	# Commercial:	
Tier:	1	Linear ft Line:	
Ability to Pay:		\$ / linear ft:	
HUC:	\$39.62	CWMTF \$ / ft:	
W/S Rate:		Volume (gpd) Addressed:	
# Resid Served:		\$ / Gal:	
% Septic Failing:		Lbs/yr Nitrogen Reduced:	
Total \$ / Residence:		CWMTF \$ / lb N:	

SCOPE OF WORK

- ~ The Town proposes a planning project to upgrade the their WWTP to reuse quality effluent standards. Once upgraded, the WWTP will be used to supply the Town and other users with reclaimed water. Part of the study work will be to identify potential uses and customers for the reclaimed water.
- ~ The WWTP upgrade, which may follow this study, would improve effluent quality and improve water quality in Little River (C, 303(d), rare aquatic species (S2G3, S1?G1), DWS-higher) in the Cape Fear River basin.
- ~ The project will evaluate the benefits of installing a reclaimed water system in the Town, identify potential users of reclaimed water, and prepare budget costs. Specific outputs will be a preliminary engineering report, which may be used for obtaining funds for implementing the project.
- ~ The application budget requests CWMTF funding for a portion of the cost to prepare the Preliminary Engineering Report.
- ~ The Town previously received a CWMTF grant (2004B-516) for \$822,000 to rehabilitate sewers in the downtown area. The work is scheduled to be completed in August 2008.
- ~ Matching funds of \$36,750 will be provided by the Town of Spring Lake using available local cash match.

CONDITIONS

- ~ Provide a report and a Final Report that includes a Scope of Work for a wastewater treatment plant upgrade project.

STAFF

- ~ Staff Recommendation 10/12/08: Staff supports funding this project up to the requested amount of \$37,000.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08

Project	Applicant	County	Region
2008-827	Weldon, Town of - Plan/WW/ Sewer Evaluation Survey, Roanoke River	Halifax	Northern Coastal Plain

Amount requested:	\$73,500	Total Score:	75
Total Project Cost:	\$175,000	HB 1095 CC Score (Max 49):	29
% Match:	58		

SUMMARY AND WATER QUALITY

River Basin: Roanoke

Stream Name:

Waterbody Sensitivity: C, rare aquatic species (S2G4), DCM exceptional wetland, SNHA

County Rank:	2	# Commercial:
Tier:	1	Linear ft Line:
Ability to Pay :	4.51	\$ / linear ft:
HUC:	\$45.45	CWMTF \$ / ft:
W/S Rate:	\$45.49	Volume (gpd) Addressed:
# Resid Served:		\$ / Gal:
% Septic Failing:		Lbs/yr Nitrogen Reduced:
Total \$ / Residence:		CWMTF \$ / lb N:

SCOPE OF WORK

- ~ The project proposes a Sanitary Sewer Evaluation Survey targeting I/I. The Town has done some preliminary smoke tests. The comprehensive SSES will prioritize and itemize all of the collection system deficiencies. Cost estimates will be prepared and used to update the Town's CIP. There were no SSO's or Notices of Violation due to I/I at the WWTP.
- ~ Sewer system rehabilitation, which may follow this study, would reduce I/I and mitigate potential overflows. Reducing I/I would reduce hydraulic loading at the Town's WWTP, which discharges into the Roanoke River (C, rare aquatic species (S2G4), DCM exceptional wetland, SNHA). The reduction of I/I flow to the WWTP, will reduce effluent quantity and may improve effluent quality during heavy rainfall events and during periods of wet weather.
- ~ The application budget requests CWMTF funding for a portion of Project Administration and Outside Consultant (contractor to TV sewer) expenses.
- ~ The Town has not previously received a CWMTF grant.
- ~ Matching funds of \$101,500 will be provided by the Town of Weldon using available local cash match.

CONDITIONS

STAFF

- ~ 10/12/08: Staff does not support funding this project. Staff has concerns about the degree of water quality benefits. There were no SSO's or Notices of Violation due to I/I at the WWTP.

COMMITTEE RECOMMENDATION 10/12/08

BOARD DECISION 10/13/08