# Texas State Soil and Water Conservation Board Clean Water Act §319(h) Nonpoint Source Grant Program FY 2021 Workplan 21-08

	SUM	MARY PAGE					
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Title of Project		d and Lower Cibolo Creek Watershed					
Project Goals		programs and materials to stakeholders					
	<ul> <li>Identify potential funding sources and work to secure BMP Implementation funding</li> <li>Maintain public engagement through meetings, mailings, and newsletters</li> </ul>						
Project Tasks	Implementation	n; (2) Engagement, Support, and Facili	itation of WPP				
Measures of Success		of educational programs					
	Dissemination of mail						
	Implementation of B	MPs in the watershed					
	Stakeholder involven	nent and feedback					
Project Type	Implementation (X); Educ	cation (); Planning (); Assessment ();	; Groundwater ( )				
Status of Waterbody on	Segment ID	Parameter of Impairment or Concern	<u>n</u> <u>Category</u>				
2020 Texas Integrated	1902 01	bacteria	5b				
Report	1902_02	bacteria	5b				
_	1902_03	bacteria, impaired fish community	5b, CN				
	1902_04	nitrate	CS				
	1902_05	nitrate, total phosphorus	CS, CS				
	1902C_01	bacteria, depressed dissolved oxygen	n, 5b, 5c, CS				
	_	total phosphorus					
	1902A_01	bacteria, total phosphorus	CN, CS				
	1902A_03	bacteria, nitrate, total phosphorus	CN, CS, CS				
	1902A 04	bacteria, nitrate, total phosphorus	CN, CS, CS				
	1913_01	nitrate, total phosphorus	CS, CS				
	1913_02	nitrate, total phosphorus	CS, CS				
	1902B_01	ammonia, nitrate, total phosphorus	CS, CS, CS				
Project Location (Statewide or Watershed and County)	Mid and Lower Cibolo Cr counties	reek watershed in Guadalupe, Wilson,	Bexar, Karnes, and Comal				
Key Project Activities	Hire Staff (); Surface Wa	ter Quality Monitoring (); Technical	Assistance ();				
	Education (X); Implement	tation (X); BMP Effectiveness Monito	oring ();				
	Demonstration (); Plannin	ng (); Modeling (); Bacterial Source	Tracking (); Other ()				
2017 Texas NPS	Component 1: L7	FG Objectives 1, 2, 3, 6, 7, 8					
Management Program	STG 2 Objective	s A, B, D; STG 3 Objectives A, B, D,	G				
Reference	Component 2						
	• Component 3						
	Component 4						
	Component 5						
Durit est Consta	Federal \$168,310	Non-Federal \$112,206	Total \$280,516				
Project Costs							
Project Costs Project Management	Texas A&M AgriLife		100m				

# Part I – Applicant Information

Applicant								
Project Lead	Dr. Lucas Gregory							
Title	Assistant Director a	and QA	Specialist					
Organization	Texas Water Resou	irces Ins	stitute					
E-mail Address	LFGregory@ag.tan	nu.edu						
Street Address	579 John Kimbroug	gh, 2260	) TAMU					
City College St	ation C	ounty	Brazos		State	TX	Zip Code	77843
Telephone Number	979-845-7869			Fax	k Number	979-845-	0662	

Project Partners	
Names	Roles & Responsibilities
Texas State Soil and Water Conservation Board (TSSWCB)	Provide state oversight and management of all project activities and ensure coordination of activities with related projects and TCEQ.
Texas A&M AgriLife Research, Texas Water Resources Institute	TWRI will execute implementation of the Mid and Lower Cibolo Creek Watershed Protection Plan through coordination with local stakeholders. TWRI will also facilitate education and outreach activities in the watershed.
San Antonio River Authority (SARA)	SARA will assist in implementation efforts in the Mid and Lower Cibolo Creek Watershed. SARA will help facilitate education and outreach activities and share outreach materials throughout the watershed.

## **Part II – Project Information**

Project Type									
Surface Water	Х	Groundwater							
TMDL; (c) an app developed under (	Does the project implement recommendations made in: (a) a completed WPP; (b) an adopted TMDL; (c) an approved I-Plan; (d) a Comprehensive Conservation and Management Plan developed under CWA §320; (e) the Texas Coastal NPS Pollution Control Program; or (f) the Texas Groundwater Protection Strategy?YesXNo								
If yes, identify the document. Mid and Lower Cibolo Creek Watershed Protection Plan									
If yes, identify the agency/group that developed and/or approved the document.			TWRI	/RI, SARA, TSSWCB Year Deve		eloped	20	17	

Watershed Information				
Watershed or Aquifer Name(s)	Hydrologic Unit	Segment ID	Category on	Size (Acres)
	Code (12 Digit)		2020 IR	()
Mid Cibolo Creek	121003040304			
	121003040301			
	121003040302	1913	CS	27,764.88
	121003040305			
	121003040303			
Lower Cibolo Creek	121003040405			
	121003040403			
	121003040402	1902	5b, 5c	349,379.09
	121003040404			
	121003040401			

#### Water Quality Impairment

Describe all known causes (i.e., pollutants of concern) and sources (e.g., agricultural, silvicultural) of water quality impairments or concerns from any of the following sources: *2020 Texas Integrated Report*, Clean Rivers Program Basin Summary/Highlights Reports, or other documented sources.

2013 San Antonio River Basin Clean Rivers Program Basin Summary Report http://www.sara-tx.org/public\_resources/library/documents/water\_quality\_monitoring/2013BSR-web.pdf

Ammonia, Nitrite, Ortho-phosphorus, and Total phosphorus could be the result of wastewater treatment plant discharge; low flows and natural weathering and leaching of sedimentary rocks, soils, and salt deposits; runoff of inadvertent over-application of fertilizers; and organic matter carried to the stream with stormwater runoff.

Causes of *E. coli* impairment can be attributed to sewer breaks and overflows, poorly maintained septic systems, stormwater runoff from livestock operations, and wildlife.

#### Impairments

SegID 1902: Lower Cibolo Creek: From the confluence with the San Antonio River in Karnes County to a point 100 meters (110 yards) downstream of IH-10 in Bexar/Guadalupe County

Parameter Category Year Bacteria 5b 2004

1902\_01: Lower 5 miles of segment 1902\_02: From 5 miles upstream of confluence with the San Antonio River to FM 541 1902\_03: From FM 541 to confluence with Clifton Branch

SegID 1902C: Clifton Branch: From the confluence of the Lower Cibolo Creek upstream to the headwater 0.6 miles upstream of Wilson CR 424 north of Stockdale.

Parameter Category Year Bacteria 5c 2014

1902C\_01: From the confluence of Lower Cibolo Creek upstream to the headwater 0.6 miles upstream of Wilson CR 424 north of Stockdale

<u>Parameter Category Year</u> Depressed dissolved oxygen 5c 2014

1902C\_01: From confluence of the Lower Cibolo Creek upstream to the headwater 0.6 miles upstream of Wilson CR 424 north of Stockdale

#### Concerns

SegID 1902: Lower Cibolo Creek: From the confluence with the San Antonio River in Karnes County to a point 100 meters (110 yards) downstream of IH-10 in Bexar/Guadalupe County

<u>Parameter</u> <u>Level of Concern</u> Impaired fish community CN

1902\_03: From FM 541 to confluence with Clifton Branch

Parameter Level of Concern Nitrate CS

1902\_04: From confluence with Clifton Branch to the confluence with Elm Creek 1902\_05: Upper end of segment

Parameter Level of Concern Total Phosphorus CS

1902\_05: Upper end of segment

# SegID 1902A: Martinez Creek: Perennial stream from the confluence with Escondido Creek upstream to Binz-Engleman Road

Parameter Level of Concern Bacteria CN 1902A\_01: From confluence with Cibolo Creek to confluence with Salatrillo Creek 1902A\_03: From confluence with Escondido Creek to about 1.9 miles downstream of IH-10 1902A\_04: From approximately 1.1 km downstream of FM 1516 to Binz-Engleman Road

Parameter Level of Concern Nitrate CS

1902A\_03: From confluence with Escondido Creek to about 1.9 miles downstream of IH-10 1902A\_04: From approximately 1.1 km downstream of FM 1516 to Binz-Engleman Road

Parameter Level of Concern Total Phosphorus CS

1902A\_01: From confluence with Cibolo Creek to confluence with Salatrillo Creek 1902A\_03: From confluence with Escondido Creek to about 1.9 miles downstream of IH-10 1902A\_04: From approximately 1.1 km downstream of FM 1516 to Binz-Engleman Road

# SegID 1902C: Clifton Branch: From the confluence of the Lower Cibolo Creek upstream to the headwater 0.6 miles upstream of Wilson CR 424 north of Stockdale

Parameter Level of Concern Depressed dissolved oxygen CS

1902C\_01: From the confluence of Lower Cibolo Creek upstream to the headwater 0.6 miles upstream of Wilson CR 424 north of Stockdale

Parameter Level of Concern Total phosphorus CS

1902C\_01: From the confluence of Lower Cibolo Creek upstream to the headwater 0.6 miles upstream of Wilson CR 424 north of Stockdale

SegID 1913: Mid Cibolo Creek: From a point 100 meters (110 yards) downstream of IH-10 in Bexar/Guadalupe County to the Missouri-Pacific Railroad bridge west of Bracken in Comal County

Parameter Level of Concern Nitrate CS

1913\_01: From 100 M downstream of IH-10 up to unnamed tributary approximately 0.3 miles upstream of Weir Road, Bexar County, Texas

1913\_02: From the confluence with unnamed tributary approximately 0.3 miles upstream of Weir Road, Bexar County, Texas up to 100 meters upstream of the Cibolo Creek Municipal WWTP

Parameter Level of Concern Total phosphorus CS

1913\_01: From 100 M downstream of IH-10 up to unnamed tributary approximately 0.3 miles upstream of Weir Road, Bexar County, Texas

1913\_02: From the confluence with unnamed tributary approximately 0.3 miles upstream of Weir Road, Bexar County, Texas up to 100 meters upstream of the Cibolo Creek Municipal WWTP.

# **Project Narrative**

#### Problem/Need Statement

The 2020 303(d) List identifies the Lower Cibolo Creek (Segment 1902) as exceeding the contact recreation criterion for *E. coli* bacteria. It has been listed as impaired since 2004. To address the high bacteria levels, as well as low levels of depressed dissolved oxygen present in the watershed, a WPP was developed and accepted in August 2020. This plan includes the impaired segments as well as surrounding tributaries that have several water quality concerns. The ultimate water quality goal for this segment is to reduce bacterial concentrations to within acceptable risk levels for the stream to meet the Primary Contact Recreation Standard 1. (<u>https://www.sara-</u>tx.org/public resources/library/documents/water quality monitoring/2013BSR-web.pdf).

The Mid Cibolo and Lower Cibolo Creek have seen increased development in the residential sector as well as increased activity because of hydraulic fracturing activity in the Eagle Ford Shale formation. With this increased development, it is important that the plan being developed to protect the watershed's creeks and streams continue to be supported and implemented to protect the biological and riparian resources in the Mid and Lower Cibolo Creek watershed.

To ensure the overall success of the WPP from development to implementation, education and outreach programs will occur throughout the watershed. Programs such as the Texas Watershed Stewards, Introduction to Septic Systems for homeowners and Texas Riparian and Stream Ecosystem Education have been performed during the WPP development process in the watershed. These education programs allow stakeholders to gain knowledge on water quality issues in the area and what can be done to mitigate water quality impacts. Education and outreach will continue to play a crucial role during implementation of the WPP.

Coordinating the delivery of these programs and tracking the successful implementation of the WPP requires a concerted effort. Continued support for the implementation of the Mid and Lower Cibolo Creek WPP is important because strong connections have been started with locals who live and work in the watershed. We have an engaged stakeholder group, and need to maintain these connections with the community to keep them actively interested in WPP implementation. This will provide greater fluidity from planning to implementation, increasing the likelihood for adoption of BMPs discussed in the WPP.

#### **Project Narrative**

General Project Description (Include Project Location Map)

TWRI will continue working with key stakeholders and partner agencies to facilitate implementation outlined in the watershed-based plan. TWRI will serve as the primary conduit for interaction with landowners, citizens, and entities to facilitate WPP implementation. TWRI will coordinate with the general stakeholder group to seek input and recommendations on needed activities and educational programs in the watershed and continue to support WPP implementation efforts. TWRI will continue to assist stakeholders to implement management measures to improve water quality and acquire resources to enable implementation and work with state and federal agencies, as appropriate, to bring technical and financial assistance to the watershed.

Education and outreach were identified as a key component of WPP success to continue to educate stakeholders on management strategies that can reduce NPS pollution and will be a focus of this project. Outreach and education coordination efforts by TWRI will facilitate and support public participation by private individuals and local officials during implementation. TWRI will develop publications, factsheets, website content, short videos and other materials to



promote and communicate watershed pollution prevention efforts. Additionally, TWRI will coordinate and conduct water resources education and outreach efforts across the watershed, organizing educational programs such as the Riparian and Stream Ecosystem Training, Lone Star Healthy Streams, Texas Watershed Stewards and Texas Well Owner Network and various other programs identified in subtask 3.6.

The Coordinating Implementation of the Watershed Protection Plan for Mid and Lower Cibolo Creek project #19-52 engaged a local stakeholder group to implement portions of the Mid and Lower Cibolo Creek WPP that was accepted by EPA in August 2020. The WPP identifies implementable best management practices that are based on the goals of water quality improvement and watershed protection.

The outcomes of the project will include continuing to work with local stakeholders to identify areas for implementation activities discussed in the WPP. This will be accomplished by targeted meeting with stakeholders in the watershed and continuing to deliver educational programs and distribute outreach materials throughout the watershed with the goal to help improve water quality. An important benefit of the project is the identification of implementation strategies that get ahead

of growth so that it can be directed in an environmentally safe and community-accepted direction.

Tasks, Objec	tives and Schedules							
Task 1	Project Administration							
Costs	Federal \$20,	.97	Non-Federal	\$13,465	Тс	otal	\$33,662	
Objective	To effectively adminis	er, coordin	ate, and monitor a	ll work performed	l under th	is projec	t including	
	technical and financial							
Subtask 1.1	TWRI will prepare ele							
	shall document all acti	-	*			by the 1 <sup>s</sup>	<sup>t</sup> of January,	
	April, July and Octobe	r. QPRs sh						
	Start Date		Month 1	Completion 1			Month 36	
Subtask 1.2	TWRI will perform ac			funds and will su	bmit app	ropriate I	Reimbursement	
	Forms to TSSWCB at	east quarte	2					
-	Start Date		Month 1	Completion 1			Month 36	
Subtask 1.3	TWRI will host coordi		•	· .	•	•		
	discuss project activiti							
	TWRI will develop lis		items needed follo	owing each project	t coordina	ation mee	eting and	
	distribute to project pe	sonnel.				-		
	Start Date	. 15	Month 1	Completion			Month 36	
Subtask 1.4	TWRI will develop a I							
	the project and discuss	es the exter		ř.				
D.1. 11	Start Date		Month 1	Completion	Date		Month 36	
Deliverables	• QPRs in electroni							
			ecessary documen		y format			
	Final Report in el	ectronic and	d hard copy format	ts				

Tasks, Object	tives and Schedules								
Task 2	Engagement, Support,	Engagement, Support, and Facilitation of WPP Implementation							
Costs	Federal \$168	Non-Federal	\$112,207	Total	\$280,517				
Objective	To facilitate continued stakeholder engagement in the watershed planning process to ensure successful implementation of the WPP and track implementation.								
Subtask 2.1	WPP) in the identifica implementation. TWR develop grant proposa	TWRI will assist governmental and non-governmental organizations (i.e. responsible parties in the WPP) in the identification and acquisition of resources (financial and technical) to enable WPP implementation. TWRI will actively seek and pursue funding opportunities and work with partners to develop grant proposals. TWRI will work with state and federal agencies, as appropriate, to bring technical and financial resources to the watershed.							
	Start Date	Month 1	Completion Date		Month 36				
Subtask 2.2	implementation. TWR email, and a project w materials, including, b promotional publication	TWRI will facilitate communication with stakeholders to engage the public and affected entities in implementation. TWRI will use all appropriate communication mechanisms including direct mail, email, and a project website. TWRI will develop and disseminate general project informational materials, including, but not limited to flyers, letters, factsheets, news releases, and other appropriate promotional publications. TWRI will work to produce online materials such as short videos, infographics and other materials that							
		cial media to engage stakeho							
	Start Date	Month 1	Completion Date	]	Month 36				

Subtask 2.3			eting, as appropriate, to cor						
			Such meetings may include						
	city councils, county commissioners' courts, Clean River Program Basin Steering Committee and								
	Coordinated Monitoring, local Soil and Water Conservation Districts (SWCDs), and other appropriate								
	meetings of critical watershed stakeholder groups.								
	Start Date	Start Date Month 1 Completion Date Month 36							
Subtask 2.4	TWRI will 1) evaluate an	d track progress toward ac	hieving milestones establis	hed in the WPP; and 2)					
	assess water quality data of	collected through the Clear	n Rivers Program and other	data collection to track					
	efforts in relation to achie	eving load reductions.	-						
	Start Date	Month 1	Completion Date	Month 36					
Subtask 2.5	TWRI will facilitate publi	ic participation and stakeho	older involvement in the wa	atershed, specifically by					
	<b>1</b>	1 I	ce per year) and work grou						
			the WPP, identify implem						
			ng and improving water qua						
			t. TWRI will coordinate m						
			endas. Meeting summaries						
			interested and responsible						
	implementation updates.	site. I wild will provide all	interested and responsible	parties with					
	Start Date	Month 1							
			Completion Date	Month 36					
Subtask 2.6			Completion Date	Month 36					
Subtask 2.6	TWRI will develop and d	istribute an annual newslet	ter designed to keep landow	wners and entities					
Subtask 2.6	TWRI will develop and d informed regarding ongoi	istribute an annual newslet ng implementation activiti	ter designed to keep landov es including progress toward	wners and entities rd achieving milestones					
Subtask 2.6	TWRI will develop and d informed regarding ongoi in the WPP. The newslett	istribute an annual newslet ng implementation activiti	ter designed to keep landow	wners and entities rd achieving milestones					
Subtask 2.6	TWRI will develop and d informed regarding ongoi in the WPP. The newslett in the watershed.	istribute an annual newslet ng implementation activiti er shall be distributed as m	ter designed to keep landov es including progress towar ost appropriate to individu	wners and entities rd achieving milestones al landowners and entities					
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Subtask 2.7	TWRI will develop and d informed regarding ongoi in the WPP. The newslett in the watershed. <u>Start Date</u> TWRI will maintain a list engaging the public in the development process will watershed landowners, cit federal agencies, and envi <u>Start Date</u> TWRI will coordinate edu will make presentations o promote, and participate i events sponsored by Texa	istribute an annual newslet ng implementation activiti er shall be distributed as m <u>Month 1</u> of watershed stakeholders e implementation process. be added to as needed. Th tizens, local and regional g ironmental and special inte <u>Month 1</u> ucation and outreach activi n general NPS pollutions t n, as appropriate, any field	ter designed to keep landow es including progress towar ost appropriate to individua <u>Completion Date</u> and affected parties for The database created and us e database will represent a overnmental entities and el rest groups. <u>Completion Date</u> ties as identified in the imp o community organizations	wners and entities rd achieving milestones al landowners and entities Month 36 sed during the WPP cross section of ected officials, state and Month 36 lementation plan. TWRI s as well as support, tours, or education					
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Subtask 2.9	<ul> <li>TWRI will coordinate and conduct water resources and related environmental outreach/education efforts across the watershed, as identified in the WPP. TWRI will work to bring educational opportunities, both online and in person to the watershed to increase citizen awareness of NPS pollution and best management strategies to protect Cibolo Creek. Trainings will be offered to increase volunteer and citizen science work in the watershed as desired by local stakeholders. Programs that may be delivered in the watershed include, but are not limited to: <ul> <li>Healthy Lawns and Healthy Waters</li> <li>Introduction to Septic Systems for Homeowners</li> <li>Aerobic system operation and maintenance workshops for homeowners</li> <li>Texas Watershed Stewards Program</li> <li>Texas Well Owner Network training and well screening</li> <li>Feral Hog Management Workshop</li> <li>Citizen Science Virtual Training</li> <li>Texas Stream Team Training</li> <li>San Antonio River Authority's Watershed Wise programs to try to direct delivery of these</li> </ul> </li> </ul>
	programs to the watershed, depending on priorities of those entities and programs.
	Start Date         Month 1         Completion Date         Month 36
Deliverables	<ul> <li>Documentation of resource opportunities identified, applied for, and resources obtained to support plan implementation</li> <li>Communication materials, as developed and disseminated, including flyers, letters, news releases, etc.</li> <li>List of other meetings attended and dates with brief summary of topics discussed and action needed included in QPRs</li> <li>Track implementation progress</li> <li>Notices, agendas, meeting materials, attendance lists, and summaries from public meetings</li> <li>Annual newsletter developed and distributed to stakeholders</li> <li>Stakeholder contact list, updated as needed</li> <li>Notices, agendas, meeting materials, attendance lists, and summaries from workshops, field tours, demonstrations, site tours, or educational events attended</li> <li>Educational and promotional materials, as developed and disseminated</li> </ul>

# **Project Goals (Expand from Summary Page)**

- 1. Facilitate watershed stakeholders and foster coordinated assistance activities between cities, counties, TSSWCB, local SWCDs, and NRCS by providing a presence in the watershed.
- 2. Conduct public meetings to provide updates on progress, seek stakeholder input and recommendations regarding needed activities, and encourage citizen participation.
- 3. Support and facilitate stakeholders in implementing management measures identified in the WPP to improve water quality, developing proposals to acquire funding for implementation, and facilitating education programs to encourage adoption of BMPs.
- 4. Work with state and federal agencies, as appropriate, to bring technical and financial assistance to the watersheds.
- 5. Coordinate and conduct water resources education and outreach across the watershed by developing publications and website content to promote and communicate watershed efforts, and by organizing training programs.

# Measures of Success (Expand from Summary Page)

Measures of success include:

- 1. Technical assistance provided to the watershed stakeholders through identification and acquisition of resources, funding opportunities pursued, and grant proposals developed.
- 2. Increased watershed stewardship among stakeholders.
- 3. Increased knowledge of citizens, landowners, and agricultural producers of management measures identified in the WPP through outreach and education efforts in the watershed.
- 4. Continued operation and maintenance of the project website to announce relevant activities, project updates, and other activities relevant to the WPP implementation process.

2017 Texas NPS Management Program Reference (Expand from Summary Page)

#### Components, Goals, and Objectives

Component 1 – Explicit short- and long-term goals, objectives, and strategies to restore and protect surface and groundwater.

- Long-Term Goal Protect and restore water quality affected by nonpoint source pollution through assessment, implementation, and education.
  - Objective 1 Focus nonpoint source abatement efforts, implementation strategies, and available resources in watersheds and aquifers identified as impacted by nonpoint source pollution.
  - Objective 2 Support the implementation of state, regional, and local programs to prevent nonpoint source pollution through assessment, implementation, and education.
  - Objective 3 Support the implementation of state, regional, and local programs to reduce nonpoint source pollution, such as the implementation of strategies defined in TMDL I-Plans, WPPs, and other water planning efforts in the state.
  - Objective 6 Develop partnerships, relationships, memoranda of agreement, and other instruments to facilitate collective, cooperative approaches to manage nonpoint source pollution.
  - Objective 7 Increase overall public awareness of nonpoint source issues and prevention activities.
  - Objective 8 Enhance public participation and outreach by providing forums for citizens and industry to contribute their ideas and concerns about the water quality management process.
- Short-Term Goal Two Implementation
  - Objective A Work with regional and local entities to determine priority areas and develop and implement strategies to address nonpoint source pollution in those areas
  - Objective D Implement TMDL I-Plans, WPPs, and other state, regional, and local plans developed to restore and maintain water quality in water bodies identified as impacted by nonpoint source pollution.
- Short-Term Goal Three Education
  - Objective B Administer programs to educate citizens about water quality and their potential role in causing nonpoint source pollution.
  - Objective D Conduct outreach through the CRP, AgriLife Extension, SWCDs, and others to enable stakeholders and the public to participate in decision-making and provide a more complete understanding of water quality issues and how they relate to each citizen.
  - Objective G Implement public outreach and education to maintain and restore water quality in water bodies impacted by nonpoint source pollution.

Component 2 – Working partnerships and linkages to appropriate state, interstate, tribal, regional, and local entities, private sector groups, and federal agencies.

Component 3 – Combination of statewide nonpoint source programs and on-the-ground projects achieve water quality benefits; efforts are well-integrated with other relevant state and federal programs.

Component 5 - Identify waters and their watersheds impaired by NPS... Progressively address these identified waters by conducting more detailed watershed assessments and developing watershed plans (e.g., WPPs or TMDLs and Implementation Plans), and then by implementing the plans.

Estimated Load Reductions Expected (Only applicable to Implementation Project Type)

Estimated load reductions will vary depending on implementation activities brought to watershed.

EPA State Categorical Program Grants – Workplan Essential Elements

FY 2018-2022 EPA Strategic Plan Reference

Strategic Plan Goal – Goal 1 Core Mission: Deliver a cleaner, safer, and healthier environment for all Americans and future generations by carrying out the Agency's core mission.

Strategic Plan Objective – Objective 1.2 Provide for Clean and Safe Water to ensure waters are clean through improved water infrastructure and, in partnership with states and tribes, sustainably manage programs to support drinking water, aquatic ecosystems, and recreational, economic, and subsistence activities.

# **Part III – Financial Information**

Budget Summary	7								
Federal	\$	168,	310	0	% of total p	roject	60%		
Non-Federal	\$	112,	206	0	% of total p	roject		40%	
Total	\$	280,	516		Total			100%	
Category			Federal		-	Non-Federal		Total	
Personnel		\$	83,73	52	\$	33,629	\$	117,381	
Fringe Benefits		\$	28,7	02	\$	7,622	\$	36,324	
Travel		\$	1,0	80	\$	0	\$	1,080	
Equipment		\$		0	\$	0	\$	0	
Supplies		\$	1,4	00	\$	0	\$	1,400	
Contractual		\$		0	\$	0	\$	0	
Construction		\$		0	\$	0	\$	0	
Other		\$	31,42	22	\$	0	\$	31,422	
Total Direct Costs		\$ 146,356		56	\$	41,251	\$	187,607	
Indirect Costs ( $\leq 1$	5%)	\$ 21,954		54	\$	21,244	\$	43,198	
Unrecovered IDC		\$		0	\$	49,711	\$	49,711	
Total Project Cost	S	\$	168,3	10	\$	112,206	\$	280,516	

Budget Justificat	ion (Fe	deral)	
Category	Total A	Amount	Justification
Personnel	\$	83,752	TBD Program Manager: \$64,970 annually @ 3 months (8.33% per year) – \$16,728 TBD Research Specialist II: \$55,278 annually @ 14.13 months (40% per year) – \$67,024 *named positions are budgeted with a 3% annual pay increase in all years; TBD positions and graduate students are budgeted with a 3% pay increase in years after year 1 *Salary estimates are based on average monthly percent effort for the entire contract. Actual percent effort may vary more or less than estimated between months; but in aggregate, will not exceed total effort estimates for the entire project. *cell phone allowances for project calls/emails during & after business hours & travel are occasionally factored into salaries & fringe, but again, will not exceed overall dollar amount.
Fringe Benefits	\$	28,702	Fringe for faculty and staff is calculated at 18.5% salary plus \$771 per month. Fringe for students is calculated at 11% salary plus \$558 per month. *named positions are budgeted with a 3% annual pay increase in all years; TBD positions and graduate students are budgeted with a 3% pay increase in years after year 1 *Salary estimates are based on average monthly percent effort for the entire contract. Actual percent effort may vary more or less than estimated between months; but in aggregate, will not exceed total effort estimates for the entire project. *cell phone allowances for project calls/emails during & after business hours & travel are occasionally factored into salaries & fringe, but again, will not exceed overall dollar amount.
Travel	\$	1,080	Trips to educational programs, stakeholder meetings, and other implementation meetings around the watershed: 8 trips per year, 90 miles roundtrip @ 0.50 per mile for state vehicle
Equipment	\$	0	N/A
Supplies	\$	1,400	Office supplies (\$285/yr for pens, paper, toner, etc.) and supplies for meetings and educational programs (\$545, nametags, sandwich board signs, etc.)
Contractual*	\$	0	N/A
Construction	\$	0	N/A
Other	\$	31,422	Communications Team Services (\$16,350) Computer Resources (\$1,872) Postage (\$2,250) Software licenses (\$750) Printing of outreach materials (\$3,000) Facility rental (\$7,200)
Indirect	\$	21,954	15% Total Direct Costs (TDC)

Budget Justificat	ion (Non-Feder	al)
Category	Total Amount	Justification
Personnel	\$ 33,62	\$33,629 *named positions are budgeted with a 3% annual pay increase in all years; TBD positions and graduate students are budgeted with a 3% pay increase in years after year 1 *Salary estimates are based on average monthly percent effort for the entire contract. Actual percent effort may vary more or less than estimated between months; but in aggregate, will not exceed total effort estimates for the entire project.
Fringe Benefits	\$ 7,62	Fringe for faculty and staff is calculated at 18.5% salary plus \$771 per month. Fringe for students is calculated at 11% salary plus \$558 per month. *named positions are budgeted with a 3% annual pay increase in all years; TBD positions and graduate students are budgeted with a 3% pay increase in years after year 1 *Salary estimates are based on average monthly percent effort for the entire contract. Actual percent effort may vary more or less than estimated between months; but in aggregate, will not exceed total effort estimates for the entire project.
Travel	\$	) N/A
Equipment	\$	) N/A
Supplies	\$	) N/A
Contractual*	\$	) N/A
Construction	\$	) N/A
Other	\$	) N/A
Indirect	\$ 21,24	Texas A&M AgriLife Research's federally negotiated indirect cost rate (IDC) is 51.5% of modified total direct costs (MTDC). MTDC includes up to \$25,000 of each subcontract and excludes tuition, facility rental and equipment over \$5,000.
Unrecovered IDC	\$ 49,71	<ul> <li>Unrecovered IDC: 51.5% MTDC - 15% TDC</li> <li>IDC on MTDC: \$139,156 MTDC * 51.5% = \$71,665</li> <li>IDC on TDC: \$146,356 TDC * 15% = \$21,954</li> <li>Total Unrecovered IDC: \$71,665 - \$21,954 = \$49,711</li> </ul>