

Texas State Soil and Water Conservation Board
State Nonpoint Source Grant Program
FY 2023 Workplan 23-52

SUMMARY PAGE			
Title of Project	Petronila and San Fernando Creeks WPP Implementation		
Project Goals	<ul style="list-style-type: none"> • Deliver educational programs and materials to stakeholders • Identify potential funding sources and work to secure WPP implementation funding • Maintain public engagement through meetings, mailings, and newsletters • Collect additional water quality data to support future long-term implementation effectiveness evaluations 		
Project Tasks	(1) Project Administration; (2) Quality Assurance; (3) Engagement, Support, and Facilitation of WPP Implementation; (4) Supplemental Water Quality Monitoring		
Measures of Success	<ul style="list-style-type: none"> • Successful delivery of educational programs • Dissemination of educational mailings • Promotion of BMP implementation in the watershed • Stakeholder involvement and feedback • Water quality data collected and provided to the state 		
Project Type	Implementation (x); Education (x); Planning (); Assessment (); Groundwater ()		
Status of Waterbody on 2022 Texas Integrated Report	<u>Segment ID</u>	<u>Parameter of Impairment or Concern</u>	<u>Category</u>
	Petronila Creek Tidal 2203	bacteria (geomean) pH Chlorophyll-a	5c 5c CN
	Petronila Creek Above Tidal 2204	Bacteria (geomean) TDS Chloride Sulfate Chlorophyll-a	5b 4a 4a 4a CS
	San Fernando Creek 2492A	Bacteria Chlorophyll-a Total Phosphorus Nitrate	5b CS CS CS
Project Location (Statewide or Watershed and County)	Jim Wells, Nueces, Kleberg and Duval counties		
Key Project Activities	Hire Staff (x); Surface Water Quality Monitoring (x); Technical Assistance (); Education (x); Implementation (x); BMP Effectiveness Monitoring (); Demonstration (); Planning (); Modeling (); Bacterial Source Tracking (); Other ()		

<p><i>2022 Texas NPS Management Program Reference</i></p>	<ul style="list-style-type: none"> • Texas NPS Program Components: 1, 2, 3, 5, 6 • Long Term Goals: 1, 2, 3, 5, 6, 7, 8 • Short-Term Goals: <ul style="list-style-type: none"> – 1: Data Collection and Assessment: B, C, E – 2: Implementation: A, B, D – 3: Education: B, D, F, and G • Milestones <ul style="list-style-type: none"> – Priority Watershed Milestones (Ch 2): Stakeholder Participation, Water Quality Monitoring, Implementation • NPS Program Milestones (Appendix E): Milestone/Measurement - Watershed Education; Watershed Coordination, Implement WPPs, Implement Coastal NPS Pollution Control Management Measures
<p>Project Costs</p>	<p>\$431,756</p>
<p>Project Management</p>	<ul style="list-style-type: none"> • Texas A&M AgriLife Research, Texas Water Resources Institute
<p>Project Period</p>	<p>March 1, 2023 – February 28, 2025</p>

Part I – Applicant Information

Applicant							
Project Lead		Lucas Gregory					
Title		Associate Director					
Organization		Texas A&M AgriLife Research, Texas Water Resources Institute					
E-mail Address		LFGregory@ag.tamu.edu					
Street Address		1001 Holleman Dr. E, MS 2118					
City	College Station	County	Brazos	State	Texas	Zip Code	77840-2118
Telephone Number	979-314-2361			Fax Number			

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)	Provide project administration, coordination, quality assurance, stakeholder facilitation support, and WPP implementation support, final report development support.
Nueces River Authority (NRA)	Conduct water quality monitoring; data assimilation and data submission to TCEQ’s Surface Water Quality Monitoring Information System (SWQMIS) database; provide assistance for stakeholder relations and public outreach.
Texas A&M University – Corpus Christi; Harte Research Institute for Gulf of Mexico Studies (HRI)	Hire the watershed coordinator; lead stakeholder engagement activities; facilitate WPP implementation; track WPP implementation progress, lead final report development.
Coastal Bend Bays and Estuaries Program	Project collaborator: Assist with stakeholder engagement and plan implementation discussions

Part II – Project Information

Project Type

Surface Water	X	Groundwater					
Does the project implement recommendations made in: (a) a completed WPP; (b) an accepted WPP; (c) an adopted TMDL; (d) an approved I-Plan; (e) a Comprehensive Conservation and Management Plan developed under CWA §320; (f) the <i>Texas Coastal NPS Pollution Control Program</i> ; or (g) the <i>Texas Groundwater Protection Strategy</i> ?				Yes	X	No	
If yes, identify the document.		Petronila and San Fernando Creek Watershed Protection Plan					
If yes, identify the agency/group that developed and/or approved the document.		Texas Water Resources Institute – Baffin Bay Stakeholder Group		Year Developed	2022		

Watershed Information

Watershed or Aquifer Name(s)	Hydrologic Unit Code (12 Digit)	Segment ID	Category on 2022 IR	Size (Acres)
Petronila Creek Tidal Watershed	121102050808	2203	5c	10,918
Petronila Creek Above Tidal Watershed	121102050501-0506; 0601-0608	2204	5b	357,994
San Fernando Creek	121102040101 - 0109; 0201 - 0206; 0301- 0310; 0401-0409	2492A	5b	814,144

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: *2022 Texas Integrated Report*, Clean Rivers Program Basin Summary/Highlights Reports, or other documented sources.

Impairments (2022 Texas Integrated Report)

Segment 2203: Petronila Creek Tidal: From the confluence of Chiltipin Creek in Kleberg County to a point 1 km (0.6 miles) upstream of private road crossing near Laureles Ranch in Kleberg County

Segment 2204: Petronila Creek Above Tidal: From a point 1 km (0.6 miles) upstream of private road crossing near Laureles Ranch in Kleberg County to the confluence of Agua Dulce and Banquete Creeks in Nueces County

AU ID 2204_01: From downstream end of segment to the confluence with 2204A, unnamed drainage ditch tributary to Petronila Creek at N-97.7, W27.65 approximately 32.5 km (20.2 mi) upstream

AU ID 2204_02: From the confluence with 2204A, unnamed drainage ditch tributary of Petronila Creek at N-97.7, W-27.65 to the upstream end of segment at the confluence with Agua Dulce and Banquete Creeks approximately 31.6 km (19.6 mi) upstream

Segment 2492A: San Fernando Creek: From the Cayo Del Grullo confluence in Kleberg County upstream to the confluence with Chiltipin Creek and San Diego Creek in Jim Wells County

<u>Impairments (2022 Texas Integrated Report)</u>	<u>Parameter</u>	<u>Category</u>	<u>Year Listed</u>
2203 : Petronila Creek Tidal	bacteria	5c	2010
2204 : Petronila Creek Above Tidal	bacteria	5b	2016
2492A: San Fernando Creek	bacteria	5b	2006

Concerns (2022 Texas Integrated Report)

Level of Support

2204_01: Chlorophyll-a CS (Concern screening levels)

2204_02: Chlorophyll-a	CS (Concern screening levels)
2204_02: Dissolved oxygen	CS (Concern screening levels)
2204_02: Total phosphorus	CS (Concern screening levels)
2203_01: Chlorophyll-a	CS (Concern screening levels)
2492A_01: Chlorophyll-a	CS (Concern screening levels)
2492A_01: Nitrate	CS (Concern screening levels)
2492A_01: Total phosphorus	CS (Concern screening levels)

Sources (2022 Texas Integrated Report)

Petronila Creek Tidal: Segment ID 2203

Enterococcus, pH, Chlorophyll-a

Point sources: Unknown

Non-point sources: Unknown

Petronila Creek Above Tidal: Segment ID 2204, AU IDs 2204_01 and 2204_02

Chloride, Sulfate, Total Dissolved Solids

Non-point sources: Petroleum/natural gas production activities (permitted)

E. coli, Chlorophyll-a, Total Phosphorus, Dissolved Oxygen

Point sources: municipal sources; unknown

Non-point sources: Crop production; rural areas; unknown

San Fernando Creek: Segment ID 2492A

Total Phosphorous, Nitrate, Chlorophyll-a

Point sources: municipal point source discharges

Bacteria

Non-point sources: grazing in riparian or shoreline zones; rangeland grazing; unrestricted cattle access; wildlife; unknown

Project Narrative

Problem/Need Statement

The *Texas Integrated Report and 303(d) List* has identified San Fernando Creek (SegID 2492A) and Petronila Creek Tidal (SegID 2203) as impaired since 2006 and 2010, respectively, for not meeting the state's water quality standard for contact recreation. In the 2016 Integrated Report, Petronila Creek Above Tidal (SegID 2204) was listed as impaired for elevated levels of *E. coli* and a pH impairment was added for Petronila Creek Tidal in 2018. San Fernando Creek also has concern for elevated nitrates, chlorophyll-a, and total phosphorus, and Petronila Creek Tidal and Above Tidal has concerns for high pH and chlorophyll-a.

The two watersheds encompass portions of Kleberg, Duval, Jim Wells, and Nueces counties and are predominantly rural, although San Fernando Creek includes the cities of Kingsville, Alice, Benavides and Bishop, and each municipality has one or more wastewater treatment plants that contribute flow to the stream network. These wastewater contributions dominate flows in San Fernando Creek, but not Petronila Creek except in drought conditions. Because of their neighboring locations and overlapping key stakeholders, a joint watershed protection plan (WPP) covering both watersheds was developed.

San Fernando and Petronila creeks flow into Baffin Bay and are two of the three major tributaries in this hypersaline estuary. Baffin Bay is also experiencing water quality concerns with high concentrations of chlorophyll-a, nitrate, total Kjeldahl nitrogen and very high concentrations of organic matter reported. The hydrology of this system undoubtedly impacts estuarine water quality; however, pollutant loadings from the watershed are known contributors to the ongoing water quality issues.

Watershed stakeholders expressed a desire to improve water quality in Baffin Bay and formed an ad-hoc stakeholder group known as the Baffin Bay Stakeholder Group (BBSG) in 2018. The goal of this group is to improve water quality in the bay, and they fully understand the importance that watersheds play in the health and function of the bay. In 2020, efforts to develop a WPP began and resulted in the development of the Petronila and San Fernando Creeks WPP. The plan outlines an approach to improve water quality through voluntary implementation of management practices to address nonpoint source pollution across the watershed. These practices address bacteria from feral hogs, human sources (failing on-site sewage facilities and wastewater treatment facilities), livestock (grazing animals), pets and wildlife and focus on feasible management activities.

With the acceptance of the WPP, efforts to improve water quality in the bay and watershed must now shift toward securing funds to implement WPP components and facilitate stakeholder engagement. Support for a dedicated watershed coordinator is needed to facilitate this transition. This position will continue to engage watershed stakeholders through education and outreach activities and focused discussions with existing entities and groups. Discussion will be held regarding specific implementation projects that can be done now and those that are desired in the future. The watershed coordinator will also facilitate future project ideas and proposal development to secure implementation funding.

Project Narrative

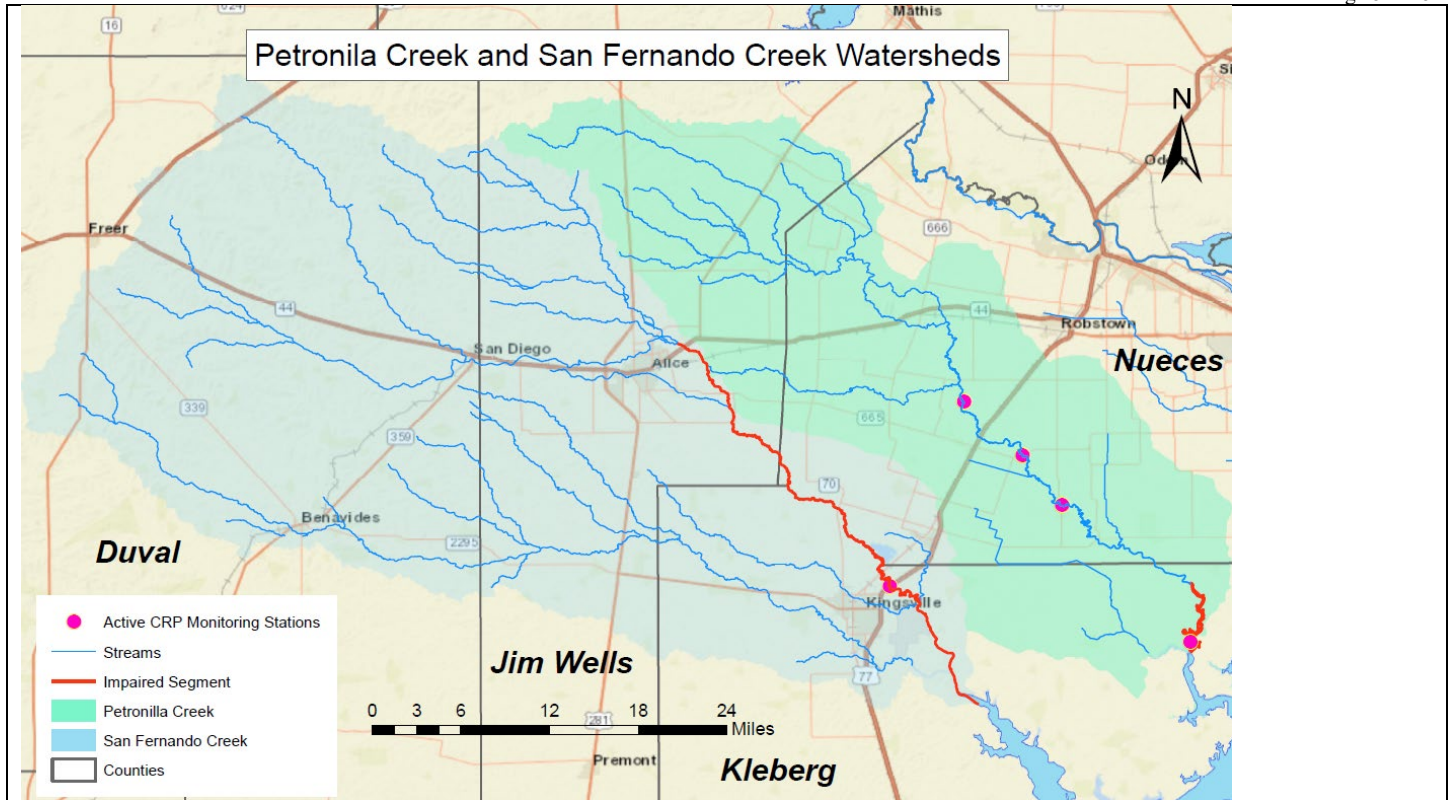
General Project Description (Include Project Location Map)

This project will focus on transitioning BBSG activities from WPP development to implementation. The project team, with leadership from the watershed coordinator, will continue working with key stakeholders and partner agencies to facilitate implementation activities outlined in the WPP. The watershed coordinator (to be hired by TAMUCC HRI) will serve as the primary conduit for interaction with landowners, citizens, and entities to facilitate WPP implementation. HRI will coordinate with the BBSG and other stakeholders to seek input and recommendations on needed activities and educational programs in the watershed and continue to support WPP implementation efforts. HRI will assist stakeholders in securing resources to implement management measures to improve water quality and acquire resources to enable implementation and will work with state and federal agencies, as appropriate, to bring technical and financial assistance to the watershed.

Education and outreach were identified as key components of WPP success. This project will focus strongly on continuing to provide educational opportunities to stakeholders regarding management strategies that can reduce NPS pollution. Outreach and education coordination efforts by the watershed coordinator and project partners will facilitate and support public participation by private individuals and local officials during implementation. Activities may include but are not limited to developing publications, factsheets, website content, and other materials to promote and communicate watershed pollution prevention efforts. Additionally, the watershed coordinator will plan and conduct water resources education and outreach efforts across the watershed in collaboration with existing groups. Delivery of existing educational programs such as the Riparian and Stream Ecosystem Training, Lone Star Healthy Streams, Texas Watershed Stewards and Texas Well Owner Network and others will also occur.

Additional water quality sampling will be conducted to continue building a robust data set that illustrates baseline water quality conditions and future changes in water quality as a result of WPP implementation activity. Data collected will support long-term trend analysis which is a common means for evaluating gradual changes in water quality that are expected from WPP implementation. Monitoring will not commence until an approved monitoring QAPP is secured. Multiple monitoring sites from areas of the watershed where data is lacking will be selected for additional monitoring. Specific site locations will be chosen prior to the QAPP development process. The budget accounts for monthly monitoring at up to 12 sites. Should the number of sites monitored be less than planned, sampling duration at the sampled sites will be increased as funding allows. Planned quarterly CRP monitoring will continue at currently monitored sites and supplemental monitoring will be coordinated such that selected sites will be monitored monthly. This approach will result in monthly data collection at monitored sites and will fill data gaps at CRP sites resulting from the traditional quarterly CRP monitoring regime.

Project outcomes will include continued relationship building with local stakeholders to identify specific implementation activity priorities discussed in the WPP. This will be accomplished through targeted meetings with stakeholders in the watershed, continuing to deliver educational programs, and distributing outreach materials throughout the watershed with the goal to help improve water quality.



Tasks, Objectives and Schedules			
Task 1	Project Administration		
Costs	\$34,540		
Objective	To effectively administer, coordinate, and monitor all work performed under this project including technical and financial supervision, and preparation of status reports.		
Subtask 1.1	TWRI and project partners will prepare electronic quarterly progress reports (QPRs) for submission to the TSSWCB. QPRs shall document all activities performed within a quarter and shall be submitted by the 1 st of December, March, June and September. QPRs shall be distributed to all Project Partners.		
	Start Date	Month 1	Completion Date Month 24
Subtask 1.2	TWRI will perform accounting functions for project funds and will submit appropriate Reimbursement Forms to TSSWCB at least quarterly.		
	Start Date	Month 1	Completion Date Month 24
Subtask 1.3	TWRI with support from the watershed coordinator, will host coordination meetings or conference calls, at least quarterly, with Project Partners to discuss project activities, project schedule, communication needs, deliverables, and other requirements. The watershed coordinator will develop lists of action items needed following each project coordination meeting and distribute to project personnel.		
	Start Date	Month 1	Completion Date Month 24
Subtask 1.4	TWRI and project partners will develop a Final Report that summarizes activities completed and conclusions reached during the project and discusses the extent to which project goals and measures of success have been achieved.		
	Start Date	Month 1	Completion Date Month 24
Deliverables	<ul style="list-style-type: none"> • QPRs in electronic format • Reimbursement Forms and necessary documentation in hard copy format • Final Report in electronic and hard copy formats 		

Tasks, Objectives and Schedules			
Task 2	Quality Assurance		
Costs	\$4,312		
Objective	To develop data quality objectives (DQOs) and quality assurance/control (QA/QC) activities to ensure data of known and acceptable quality are generated through this project.		
Subtask 2.1	TWRI and project partners will develop a QAPP for activities in Task #4 consistent with the most recent versions of <i>EPA Requirements for Quality Assurance Project Plans (QA/R-5)</i> and the <i>TSSWCB Environmental Data Quality Management Plan</i> . All monitoring procedures and methods prescribed in the QAPP shall be consistent with the guidelines detailed in the <i>TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods for Water, Sediment, and Tissue (RG-415)</i> and <i>Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data (RG-416)</i> . [Consistency with Title 30, Chapter 25 of the Texas Administrative Code, <i>Environmental Testing Laboratory Accreditation and Certification</i> , which describes Texas' approach to implementing the National Environmental Laboratory Accreditation Conference (NELAC) standards, shall be required where applicable.]		
	Start Date	Month 1	Completion Date Month 4
Subtask 2.2	TWRI and project partners will implement the approved QAPP. TWRI will submit revisions and necessary amendments to the QAPP as needed.		
	Start Date	Month 4	Completion Date Month 24
Deliverables	<ul style="list-style-type: none"> • QAPP approved by TSSWCB in both electronic and hard copy formats • Approved revisions and amendments to QAPP, as needed • Data of known and acceptable quality as reported through Task #4 		

Tasks, Objectives and Schedules			
Task 3	Engagement, Support, and Facilitation of WPP Implementation		
Costs	\$259,053		
Objective	To facilitate continued stakeholder engagement and transition the watershed planning process into implementation and ensure successful WPP implementation and tracking.		
Subtask 3.1	The watershed coordinator, with support from project partners as appropriate, will assist governmental and non-governmental organizations (i.e., responsible parties in the WPP) in identification and acquisition of resources (financial and technical) to enable WPP implementation. Activities will include actively seeking and pursuing funding opportunities and working with partners to develop grant proposals. Coordination efforts with state and federal agencies, as appropriate, to bring technical and financial resources to the watershed will also occur.		
	Start Date	Month 1	Completion Date
Subtask 3.2	The watershed coordinator, with support from project partners as appropriate, will facilitate communication with stakeholders to engage the public and affected entities in implementation. All appropriate communication mechanisms including direct mail, email, and a project website will be used. General project informational materials will include but are not limited to, flyers, letters, factsheets, newsletters, news releases, and other appropriate promotional publications.		
	Start Date	Month 1	Completion Date
Subtask 3.3	The watershed coordinator, with support from project partners as appropriate, will attend and participate in other public meetings, as suitable, to communicate project goals, activities, and accomplishments to affected parties. Such meetings may include, but are not limited to, city councils, county commissioners' courts, Clean River Program Basin Steering Committee, the Coastal Bend Stormwater Committee, local soil and water conservation districts (SWCDs), and other appropriate meetings of critical watershed stakeholder groups.		
	Start Date	Month 1	Completion Date
Subtask 3.4	The watershed coordinator, with support from project partners as appropriate, will maintain a list of watershed stakeholders and affected parties for use in engaging the public in the implementation process. The list created and used during the WPP development process will be added to as needed. The list will represent a cross section of watershed landowners, citizens, local and regional governmental entities and elected officials, state and federal agencies, and environmental and special interest groups.		
	Start Date	Month 1	Completion Date
Subtask 3.5	<p>The watershed coordinator, with support from project partners as appropriate, will coordinate and conduct water resources and related environmental outreach/education efforts across the watershed, as identified in the WPP. Efforts will include collaborating with entities to organize at least two educational/training programs annually, including, but not limited to:</p> <ul style="list-style-type: none"> • Lone Star Healthy Streams workshop (feral hog and/or grazing components) • Intro to septic systems for homeowners • Aerobic system operation and maintenance workshops for homeowners • Riparian management workshops for landowners and land managers • Urban Riparian and Stream Restoration workshop • Texas Watershed Stewards Program • Texas Well Owner Network training and well screening • Feral hog management workshop <p>The watershed coordinator, with support from project partners as appropriate, will work with entities that administer/fund these programs to coordinate delivery of these programs to the watershed, depending on priorities of those entities and programs.</p>		
	Start Date	Month 1	Completion Date

Deliverables	<ul style="list-style-type: none"> • Documentation of resource opportunities identified, applied for, and resources obtained to support plan implementation • Informational, educational, and promotional materials, as developed and disseminated • Communication materials, as developed and disseminated • Notices, agendas, meeting materials, attendance lists, and summaries from public meetings • List of meetings attended, including dates, brief summary of topics discussed, action needed • Spreadsheet for tracking implementation progress • Stakeholder contact list, updated as needed • Notices, agendas, meeting materials, attendance lists, and summaries from workshops, field tours, demonstrations, site tours, or educational events attended
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Tasks, Objectives and Schedules			
Task 4	Supplemental Water Quality Monitoring		
Costs	\$133,844		
Objective	To collect surface water quality and flow data to supplement existing data for pollutant loading assessments and future use to evaluate long-term trends in water quality as WPP implementation ensues.		
Subtask 4.1	<p>NRA will conduct routine, monthly, ambient water quality monitoring consistent with their current CRP monitoring regime at up to 12 monitoring stations. Some of these are existing CRP sites that will continue to be monitored under the CRP program. During non-CRP sampling months, CRP sites will be sampled under this project. Flow will be measured where feasible.</p> <p>Sampling will include routine field parameters (water temperature, pH, DO, specific conductance, instantaneous stream flow, days since last significant rainfall, flow severity, present weather, transparency, and total water depth). Water samples returned to the lab will be analyzed for conventional parameters including Ammonia-N, Nitrate-N, Nitrite-N, Total Kjeldahl Nitrogen, Total Phosphorus, and <i>E. coli</i> bacteria. Water samples will be delivered to the Corpus Christi Water Utilities Lab as appropriate within the appropriate holding time for analysis.</p>		
	Start Date	Month 6	Completion Date
			Month 24
Subtask 4.2	NRA will manage and maintain collected water quality data and prepare it for inclusion into TCEQ's Surface Water Quality Monitoring Information System (SWQMIS). NRA will upload data into the SWQMIS test environment and submit successful data set(s) to the TSSWCB Project Manager.		
	Start Date	Month 6	Completion Date
			Month 24
Deliverables	<ul style="list-style-type: none"> • Documentation of sampling events in QPRs • Semi-annual data submissions (data summary and checklist, event and result files, and validator report) after successful upload into SWQMIS test environment 		

Project Goals (Expand from Summary Page)

The primary goal of this project is to provide resources and personnel to facilitate the transition of the BBSG to implementing the Petronila and San Fernando Creeks WPP. Hiring a watershed coordinator will facilitate this transition by providing a dedicated position to interface with stakeholders across the entire watershed and keep them engaged in ongoing discussions regarding WPP implementation activities and progress.

Engagement and information transfer to stakeholders will take place via multiple avenues including but not limited to emails, newsletters, news releases, informational publications, invited presentations, solicited presentations, public meetings, field days, and others as appropriate. A concerted effort to engage all stakeholders in the watershed regardless of socio-economic status and respective interests. The goal with these efforts is to raise awareness about local water quality concerns and the connection between watershed management and water quality.

The watershed coordinator will also support current and future WPP implementation efforts by working to identify and seek out funding resources. This will entail coordinating and discussing funding needs of various entities and working with them to apply for appropriate funding resources. The goal is to build a diverse funding portfolio to implement various WPP components over time to reduce pollutant loading, protect human health, and restore water quality in Baffin Bay. Funding resources to answer additional questions regarding specific water quality concerns and pollutant sources will also be sought to complement and refine future WPP implementation efforts.

Collecting additional water quality data will support implementation efforts and the ability to document implementation effectiveness. The goal of data collection through this project is to continue working to fill water quality data gaps across the watershed. Increasing spatial distribution and temporal resolution of sampling across the watershed will support this goal. Additionally, this approach will enable future refinements to implementation approaches and allow for long term assessment of implementation effectiveness.

Measures of Success (Expand from Summary Page)

Successful project completion will be gauged by:

- (1) Coordination and engagement of a local watershed stakeholder group will be measured by the number of stakeholder group meetings held, number of participants, and number of stakeholder groups represented by participants. The distribution volume of printed materials through direct contacts, public events, and other venues will also be tracked and provide a metric for quantifying engagement reach.
- (2) Plan implementation will be gaged by the amount of implementation progress achieved during the project period and amount of additional planned activity that is documented through implementation tracking.
- (3) Data collection success will be gauged through the delivery of additional water quality data as prescribed in the QAPP to TCEQ for inclusion in the SWQMIS database.

2022 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, ..., and available resources in watersheds...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, ..., 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 ... WPPs, ...
 - Objective 5 – Support the implementation of state, regional, and local programs to reduce nonpoint source pollution in the coastal management zone through the Texas Coastal Nonpoint Source Pollution Control Program.
 - 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 One – Data Collection and Assessment
 - Objective B – Ensure that monitoring procedures meet quality assurance requirements and are in compliance with EPA-approved TSSWCB Quality Management Plans.
 - Objective C – Conduct special studies to determine sources of nonpoint source pollution and gain information to target ... BMP implementation.
 - Objective E – Conduct monitoring to determine the effectiveness of ... WPPs, and BMP implementation.
- Short-Term Goal Two – Implementation
 - Objective A – Work with regional and local entities to ... implement strategies to address nonpoint source pollution in those areas.
 - Objective B – ...Implement BMPs to address constituents of concern or waterbodies not meeting water quality standards in watersheds identified as impacted by nonpoint source pollution
 - Objective D – Implement ... WPPs, and other state, regional, 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, 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 F - Implement outreach and education activities identified in the Texas Coastal Nonpoint Source Pollution Control Program to prevent and abate nonpoint source pollution impacts to coastal resources.
 - 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...

Component 5 - ... Progressively address these identified waters by conducting more detailed watershed assessments and developing watershed plans (e.g., WPPs or TMDLs and Implementation Plans)...

Component 6 - Implement all nonpoint source program components required by CWA Section 319(b)...

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

This project will not implement any physical BMPs directly that are expected to generate measurable pollutant load reductions. Some educational programming may result in behavioral change and practice implementation. Estimates from select educational event surveys will allow estimates for anticipated loading reductions after those events. Additional implementation projects facilitated by the watershed coordinator may also result in loading reductions. While not directly a result of this project, they will be reported through implementation tracking efforts.

EPA State Categorical Program Grants – Workplan Essential Elements
FY 2022-2026 EPA Strategic Plan Reference

Strategic Plan Goal – 5.0 Ensure Clean and Safe Water for All Communities

Strategic Plan Objective – 5.2 - Protect and Restore Waterbodies and Watersheds

This workplan supports Goal 5 (Ensure Clean and Safe Water for All Communities) and Objective 5.2 (Protect and Restore Waterbodies and Watersheds) by funding the Texas State and Soil Water Conservation Board's NPS Program for state and local planning, education, assessments, watershed restoration and protection, best management practices, and related water quality activities.

Part III – Financial Information

Budget Summary	
Category	Total
Personnel	\$ 26,284
Fringe Benefits	\$ 9,705
Travel	\$ 2,246
Equipment	\$ -
Supplies	\$ -
Contractual	\$ 334,205
Construction	\$ -
Other	\$ 3,000
Total Direct Costs	\$ 375,440
Indirect Costs (≤ 15%)	\$ 56,316
Unrecovered IDC	
Total Project Costs	\$ 431,756

Budget Justification		
Category	Total Amount	Justification
Personnel	\$ 26,284	TWRI Research Associate TBD: \$48,000 @ 2.4 months: \$9,744 TWRI Program Manager TBD: \$78,614 @ 1.92 months: \$12,767 TWRI QA Officer TBD: \$75,000 @ 0.6 months: \$3,773 *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	\$ 9,705	Fringe benefits are calculated at 18.9% * salary. For part-time and graduate research assistants, the fringe rate is 10.9%. Health insurance rates are at \$963/month for faculty/staff and \$560/month for students. *(Fringe benefits estimates are based on salary the estimates listed. Actual fringe benefits will vary between months coinciding with percent effort variations; but in aggregate, will not exceed the overall estimated total.) *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	\$ 2,246	2 trips to the watershed annually for 1 person for project coordination meetings 1.5 days per diem/trip @ state rate: \$354 1 night lodging/trip @ state rate: \$392 600 miles/trip @ state rate: \$1,500
Equipment	\$ 0	N/A
Supplies	\$ 0	N/A
Contractual*	\$ 334,205	NRA: \$116,995 TAMU CC HRI: \$217,210
Construction	\$ 0	N/A
Other	\$ 3,000	TWRI Communications Services: \$3,000
Indirect	\$ 56,316	Indirect costs are calculated at 15% of total federal direct costs per the RFP limitation. \$375,440 * 0.15 of Total Direct = \$56,316

Budget Justification (Federal) – TAMU CC HRI		
Category	Total Amount	Justification
Personnel	\$ 127,565	HRI PI: \$200,000 @ 0.96 months: \$16,727 HRI Watershed Coordinator TBD: \$75,000 @ 14.4 months: \$91,350 HRI Graduate Student TBD: \$38,400 @ 6 months: \$19,488 *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	\$ 40,702	Fringe benefits are calculated at 18.9% * salary. For part-time and graduate research assistants, the fringe rate is 10.9%. Health insurance rates are at \$963/month for faculty/staff and \$560/month for students. *(Fringe benefits estimates are based on salary the estimates listed. Actual fringe benefits will vary between months coinciding with percent effort variations; but in aggregate, will not exceed the overall estimated total.) *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	\$ 6,296	Mileage to the watershed: 3,200 miles @ state rate: \$2,000 WS Coordinator travel to watershed related meetings and conferences – 6 trips total; 2 days per trip - 12 days per diem @ state rate: \$708 - 6 nights lodging @ state rate: \$588 4,800 miles @ state rate: \$3,000
Equipment	\$ 0	N/A
Supplies	\$ 1,000	Miscellaneous meeting supplies for WS Coordinator
Contractual*	\$ 0	N/A
Construction	\$ 0	N/A
Other	\$ 13,315	Graduate Student Tuition in yrs. 1 & 2: \$9,815 Meeting/conference registration fees: \$1,000 Computer and peripherals for WS Coord: \$2,500
Indirect	\$ 28,332	Indirect costs are calculated at 15% of total federal direct costs per the RFP limitation. \$ 188,878 * 0.15 = \$28,332

Budget Justification (Federal) - NRA		
Category	Total Amount	Justification
Personnel	\$ 51,245	NRA Field Supervisor: \$65,000 @ 3. months: \$16,250 NRA Field Staff: \$50,000 @ 2.543 months: \$10,596 NRA Finance Director: \$75,600 @ 2.07 months: \$12,937 NRA Executive Director: \$91,694 @ 1.5 months: \$11,462 <i>Salaries are based on an estimated average monthly effort for the entire contract. Individual monthly efforts may vary, but will not exceed total effort estimates for the entire project.</i>
Fringe Benefits	\$ 16,911	Benefits for FTE personnel @ 33%
Travel	\$ 4,390	Mileage for sampling trips: Est. @ 2,528 miles @ state mileage rate: \$1,580 Per Diem for field staff: \$810 Mileage for education events: Est @ 3,200 miles @ state mileage rate: \$2,000
Equipment	\$ 0	N/A
Supplies	\$ 1,225	Monitoring calibration standards: \$225 Education and Outreach supplies: paper, ink/toner, flip charts, miscellaneous items for events: \$1,000
Contractual*	\$ 0	N/A
Construction	\$ 0	N/A
Other	\$ 32,588	Water quality analysis costs: 72 samples @ \$224/sample set: \$16,128 Bacteria only: 180 samples (includes lab duplicates) @ \$17 ea.: \$3,060 Outreach Material Printing Costs: \$4,400 Outreach Material Development Service: \$4,500 annually: \$9,000
Indirect	\$ 10,636	10% of TDC