



**Texas State Soil and Water Conservation Board  
 State General Revenue Nonpoint Source Grant Program  
 FY 2011 Project 11-52 Workplan**

PROJECT SUMMARY PAGE		
Title of Project	Recreational Use Attainability Analysis for Aransas Creek	
Project Goals/Objectives	<ul style="list-style-type: none"> <li>• To collect the needed data to evaluate factors affecting attainment of recreational use in Segment 2004A</li> <li>• To facilitate public participation and coordinate stakeholder involvement to ensure that decision-making is founded on local input and that watershed action is successful</li> <li>• To assess possible sources of bacteria by developing a comprehensive GIS inventory, evaluating historical water quality data, and conducting a watershed source survey</li> </ul>	
Project Tasks	(1) Project Administration; (2) Quality Assurance; (3) Assess Attainability of Recreation Use; (4) Public Participation and Stakeholder Coordination; (5) Survey and Inventory Possible Bacteria Sources	
Measures of Success	<ul style="list-style-type: none"> <li>• Decision-making for RUAA is founded on local stakeholder input</li> <li>• Obtain access to private lands to conduct RUAA surveys</li> <li>• Complete two RUAA surveys at each selected site</li> <li>• Keep landowners and stakeholders informed regarding the RUAA</li> <li>• Factors affecting attainment of recreation use are assessed</li> </ul>	
Project Type	Implementation ( ); Education ( ); Planning ( ); Assessment (X)	
Status of Waterbody on 2008 Texas Water Quality Inventory and 303(d) List	<u>Segment ID</u> 2004A Aransas Creek	<u>Parameter</u> Bacteria
Project Location (Statewide or Watershed and County)	Aransas Creek in Bee County	
Key Project Activities	Hire Staff ( ); Surface Water Quality Monitoring (X); Technical Assistance ( ); Education (X); Implementation ( ); BMP Effectiveness Monitoring ( ); Demonstration ( ); Planning ( ); Modeling ( ); Bacterial Source Tracking ( ); Other (X)	
Texas NPS Management Program Elements	<ul style="list-style-type: none"> <li>• Element 1 – Long Term Goal Objectives A, G</li> <li>• Element 1 – Short Term Goals 1A, 1B, 1C, 3D, 3F</li> <li>• Elements 2, 5</li> </ul>	
Project Costs	\$125,402	
Project Management	<ul style="list-style-type: none"> <li>• Nueces River Authority</li> </ul>	
Project Period	June 1, 2011 – June 30, 2013	

**Part I – Applicant Information**

Applicant							
Project Lead	Rocky Freund						
Title	Deputy Executive Director						
Organization	Nueces River Authority						
E-mail Address	<a href="mailto:rfreund@nueces-ra.org">rfreund@nueces-ra.org</a>						
Street Address	1201 N. Shoreline Blvd.						
City	Corpus Christi	County	Nueces	State	Texas	Zip Code	78401
Telephone Number	361-653-2110			Fax Number	361-653-2115		

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 the Texas Commission on Environmental Quality (TCEQ).
Nueces River Authority (NRA)	Responsible for all project activities and tasks. Responsible for project administration. Develop and maintain relationships with landowners and stakeholders. Coordinate public meetings and coordinate with local stakeholders to ensure communication and collaboration. Perform surveys for RUAA, inventory of potential bacteria sources, developing and incorporating previously collected information and geographic information system (GIS) data, and completing technical reports.

## Part II – Project Information

### Watershed Information

Watershed Name	Hydrologic Unit Code (12 Digit)	Segment ID	305(b) Category	Size (Acres)
Aransas Creek	121004070104 121004070106	2004A	5c	45,195

### Water Quality Impairment

Describe all known causes of water quality impairments from any of the following sources: 2008 Texas Water Quality Inventory and 303(d) List, Clean Rivers Program Basin Summary/Highlights Reports, or other documented sources.

Aransas Creek (Segment 2004A) is comprised of a single assessment unit (2004A\_01) 20 miles long representing the entire waterbody, which is defined as Aransas Creek beginning west of Beeville to its confluence with the Aransas River in Bee County.

Segment 2004A is not supporting the contact recreation use due to excessive bacteria. There is also a concern for low levels of DO. In 2006 segment 2004A was listed as being impaired for bacteria based on fecal coliform analysis. The impairment is being carried forward since there were not enough data points for the *2010 Integrated Report*. This segment is also listed as having a concern for depressed dissolved oxygen (DO). Currently 24-hour DO measurements are being collected at station 12941 to reassess the concern.

## Project Narrative

### Problem/Need Statement

Aransas Creek reaches 20 miles from the confluence of the Aransas River northeast of Skidmore to the headwaters of the stream west of Beeville. The Aransas Creek watershed is largely rural ranchland with no major communities. Tributaries to Aransas Creek include Dry Creek, Elm Creek, and Olmos Creek. Road crossings include CR 322, US 59, FM 796, CR 314, FM 1349, FM 888, and US 181. Currently there are no active water quality monitoring stations, stream flow gauges, or wastewater treatment facility (WWTF) outfalls on this segment. However, TSSWCB and NRA collected and submitted biased flow data to TCEQ at station 20066 between 2007 and 2010 for TSSWCB project 06-15, *Surface Water Quality Monitoring to Support Development and Implementation of Bacteria TMDLs in the Copano Bay Watershed*. In addition, a 24-hour DO study is being conducted by NRA at station 12941.

The TCEQ and the TSSWCB established a joint, technical Task Force on Bacteria Total Maximum Daily Loads (TMDL)s in September 2006 charged with making recommendations on cost-effective and time-efficient bacteria TMDL development methodologies. The Task Force recommended the use of a three-tier approach that is designed to be scientifically credible and accountable to watershed stakeholders. The tiers move through increasingly aggressive levels of data collection and analysis in order to achieve stakeholder consensus on needed load reductions and strategies to achieve those reductions. In June 2007, the TCEQ and the TSSWCB adopted the principles and general process recommended by the Task Force. Fundamental in the three-tier approach is ensuring that the appropriate water quality standard (i.e., designated use) is applied to the waterbody before initiating any watershed planning activity (e.g., TMDL or watershed protection plan).

Major revisions to the Texas Surface Water Quality Standards (TSWQS) have been adopted by TCEQ, including modifications to contact recreation use and bacteria criteria. As part of this process, TCEQ developed procedures for conducting RUAA's. In order for a new category of recreational use or a different bacteria water quality criterion to be applied to a waterbody, an RUAA will need to be conducted. TCEQ and TSSWCB have collaborated on developing a list of priority waterbodies for collecting information needed for RUAA's; Aransas Creek is on that list.

In 2002 the upper 25 miles of the Aransas River was listed as having a concern for depressed DO. After the assessment, it was discovered that beginning in August 1998, samples at station 17592 were mistakenly being collected on Aransas Creek. Because samples were taken at an incorrect location and a concern was identified, station 12941 was established to replace station 17592 on Aransas Creek. In 2006 Aransas Creek was listed as having a concern for DO with 2 exceedences below the criteria, and being impaired for bacteria based on fecal coliform analysis. Aransas Creek was assessed as having a geometric mean for *E. coli* concentration of 248 cfu/100 mL and a geometric mean for fecal coliform of 311 cfu/100ml. Since it is not known with certainty that recreational use in Aransas Creek occurs, the findings from an RUAA will provide additional information regarding the level of recreational use occurring in Segment 2004A.

In accordance with the *Memorandum of Agreement Between the TCEQ and the TSSWCB Regarding TMDLs, Implementation Plans, and Watershed Protection Plans*, the TSSWCB has agreed to take the lead role in conducting an RUAA in the study area. Through this project, the TSSWCB and NRA will work with local stakeholders to progress through the data collection components of an RUAA and at the end of this project have adequate data that either supports the existing designated use (primary contact recreation) or supports a change in designated use.

## Project Narrative

### General Project Description (Include Project Location Map)

This project consists of performing a Comprehensive RUAA on Aransas Creek (Segment 2004A) for the purpose of ascertaining the level of recreational use occurring in the creek. This project will adhere to the procedures provided in the *TCEQ Procedures for a Comprehensive RUAA and a Basic RUAA Survey*.



This Comprehensive RUAA of Aransas Creek consists of 4 main tasks: a) conducting the required two surveys of Aransas Creek, b) public participation and stakeholder interaction c) evaluation of historical bacterial water quality data and survey of possible bacteria sources and d) compilation of GIS data pertaining to the Aransas Creek watershed.

RUAA survey site selection is predicated on reconnaissance trips, public participation, and stakeholder interaction. An initial reconnaissance trip will be completed prior to meeting with stakeholders, and follow up trips when interaction with local landowners provides opportunities for additional sites.

Two surveys will be conducted at each of the selected sites by NRA. Each survey will be conducted per the most recently applicable TCEQ

RUAA guidance and will include the collection of transect information along a stretch of the creek at each site, a streamflow measurement at each site, numerous physical observations, and collection of survey information from individuals either actively recreating at each site or knowledgeable of the site and Aransas Creek in general. Each survey will be performed at a time of year under weather and hydrologic conditions that are conducive to observing recreational use on Aransas Creek, which means when air temperatures are warm to hot (>70° F). Field surveys will be conducted during the period people would most likely be using the waterbody for contact recreation. A historical information review will be conducted on recreation use that occurred on Aransas Creek on and after November 28, 1975.

NRA will conduct a watershed source survey that better characterizes the possible sources of bacteria loadings based on data incorporated from the pollutant loading model developed for TCEQ for use in the Copano Bay TMDL study by the University of Texas. Local stakeholders and technical experts will also be consulted on possible sources of bacteria loadings. Locations of possible bacteria sources identified during the source survey will be incorporated into the GIS inventory.

The public education and stakeholder interaction task is critical to the success of the project. This task will be performed by NRA to accomplish two complimentary goals – obtaining landowner permission for access to sites along Aransas Creek and ensuring that decision-making regarding the RUAA is founded on local input. A public meeting will be held where the RUAA process is described and solicitation is made for access to the waterbody. Direct interaction with affected city councils, county commissioners courts, and soil and water conservation districts (SWCD)s will occur. Any necessary follow-up meetings will be conducted to further communicate the RUAA process and to obtain landowner permission for access to the creek. A final public meeting will be conducted to present findings of the RUAA surveys.

Tasks, Objectives and Schedules				
Task 1	Project Administration			
Costs	\$6,006			
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	NRA 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 15 <sup>th</sup> of March, June, September and December. QPRs shall be distributed to all project partners.			
	Start Date	Month 1	Completion Date	Month 25
Subtask 1.2	NRA 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 25
Subtask 1.3	NRA will host coordination meetings or conference calls with TSSWCB at least quarterly to discuss project activities, project schedule, communication needs, deliverables, and other requirements. NRA will develop lists of action items needed following each project coordination meeting and distribute to project personnel.			
	Start Date	Month 1	Completion Date	Month 25
Deliverables	<ul style="list-style-type: none"> <li>• Quarterly progress reports in electronic format</li> <li>• Reimbursement Forms and necessary documentation in hard copy format</li> <li>• List of action items needed from project coordination meetings</li> </ul>			

Tasks, Objectives and Schedules				
Task 2	Quality Assurance			
Costs	\$7,035			
Objective	To develop and implement 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	NRA will develop a quality assurance project plan (QAPP) for activities in Task 3 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> . All procedures and methods prescribed in the QAPP shall be consistent with the guidelines detailed in the latest version of the <i>TCEQ Procedures for a Comprehensive RUAA and a Basic RUAA Survey</i> .			
Subtask 2.2	Start Date	Month 1	Completion Date	Month 2
	NRA will implement the approved QAPP. NRA will submit revisions and necessary amendments to the QAPP as needed.			
Deliverables	Start Date	Month 3	Completion Date	Month 25
	<ul style="list-style-type: none"> <li>• QAPP approved by TSSWCB in both electronic and hard copy formats</li> <li>• Approved revisions and amendments to QAPP, as needed</li> <li>• Data of known and acceptable quality as reported through Task 3</li> </ul>			

Tasks, Objectives and Schedules			
Task 3	Assess Attainability of Recreational Use		
Costs	\$39,438		
Objective	To collect information that can be used to evaluate factors affecting attainment of recreational use in Aransas Creek		
Subtask 3.1	NRA will conduct at least one reconnaissance trip to assess potential survey sites. The reconnaissance trip(s) will be a follow-up on the interaction with landowners under Task 4. The goal will be to have approximately 3 sites per 5 miles of river (approximately 12 sites).		
	Start Date	Month 1	Completion Date
Subtask 3.2	Utilizing information from subtask 5.1 (comprehensive GIS inventory), subtask 3.1 (reconnaissance trip), Task 4 (public input), and other relevant information, NRA will identify sites for RUAA data collection. Proposed sites should be located in areas where the waterbody is accessible to the public and has the highest potential for recreational use (primary contact). Because public access is limited along this waterbody, other sites will also be selected for the purpose of characterizing the physical characteristics of the stream to assist in determining the potential level of recreation use that can be supported. The sites should be well-spaced and, in general, distributed such that there are 3 sites for every 5 miles of stream.		
	Start Date	Month 1	Completion Date
Subtask 3.3	NRA shall conduct a thorough historical information review of the recreational uses of the waterbody back to November 28, 1975. Historical resources that should be examined include, but are not limited to, photographic evidence, local newspapers, museum collections, published reports, historical society records, and long-term landowners/residents. Texas Parks and Wildlife Department and commercial providers of outdoor recreation goods and services should be consulted for historical information.		
	Start Date	Month 1	Completion Date
Subtask 3.4	NRA will conduct 2 field surveys at each selected site. Surveys shall be conducted during a normal warm season (air temperature $\geq 70^{\circ}\text{F}$ ) during baseflow conditions. Baseflow conditions are sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather. The surveys should be performed during the period people would most likely be using the waterbody for contact recreation, typically March to October (e.g., spring break, summer, holidays or weekends).		
	To ascertain the suitability of the streams for contact recreation use, field surveys shall document hydrological characteristics of the stream, such as width and depth of channel and substantial pools, flow/discharge, air/stream temperature, bank access, and stream substrate. Information to be collected shall at least satisfy those questions found on the Field Data Sheet from the latest version of the <i>TCEQ Procedures for a Comprehensive Recreational UAA and a Basic UAA Survey</i> .		
Subtask 3.5	NRA shall document and describe antecedent (prior to fieldwork) rainfall conditions (approximately the previous 30 days) at each selected site.		
	Start Date	Month 4	Completion Date
Subtask 3.6	NRA shall collect a digital photographic record of each selected site during the field surveys. Photographs shall include upstream, left and right bank, and downstream views. Any evidence of observed uses or indications of human use shall be photographed. Photographs should clearly depict the entire channel and each transect measured.		
	Start Date	Month 4	Completion Date
Subtask 3.6	In order to obtain information on existing and historical uses and stream characteristics, NRA shall conduct interviews of 1) users present during the field surveys, 2) streamside landowners along the field survey transects, 3) local residents, and 4) commercial providers of outdoor recreation goods and services. Surveys shall include at least those questions found on the Interview Form from the latest version of the <i>TCEQ Procedures for a Comprehensive Recreational UAA and a Basic UAA Survey</i> .		
	Start Date	Month 1	Completion Date

Subtask 3.7	NRA will combine findings from historical information review, field surveys, and user interviews into a Technical Report that shall at least include those contents described for a Comprehensive RUAA in the latest version of the <i>TCEQ Procedures for a Comprehensive Recreational UAA and a Basic UAA Survey</i> .			
	Start Date	Month 14	Completion Date	Month 25
Deliverables	<ul style="list-style-type: none"> <li>• Contact Information Form from the latest version of the <i>TCEQ Procedures for a Comprehensive Recreational UAA and a Basic UAA Survey</i></li> <li>• Field Data Sheets and Data Summary in electronic format</li> <li>• Digital photographic record, cataloged in an appropriate manner</li> <li>• Interview Forms and Data Summary in electronic format</li> <li>• Technical Report summarizing historical information review, field surveys, and user interviews</li> </ul>			

Tasks, Objectives and Schedules				
Task 4	Public Participation and Stakeholder Coordination			
Costs	\$41,723			
Objective	To facilitate public participation and coordinate stakeholder involvement to ensure that decision-making is founded on local input and that watershed action is successful.			
Subtask 4.1	NRA will facilitate public participation activities and coordinate stakeholder involvement in the project. NRA will develop (Months 1-2) and maintain (Months 3-25) a list of stakeholders likely to be affected by this project.			
	Start Date	Month 1	Completion Date	Month 25
Subtask 4.2	NRA will provide logistical support for public meetings, including, but not limited to, securing meeting facilities, preparing/disseminating meeting notices and agendas, and preparing meeting summaries. At a minimum, public stakeholder meetings shall consist of an initial public meeting (~Month 3), a project update meeting (~Month 10), and a meeting presenting final Technical Reports (~Month 16). A primary objective of the public meetings is to solicit landowner permission for private-land access to Aransas Creek for survey sites. NRA will participate in all public stakeholder meetings.			
	Start Date	Month 1	Completion Date	Month 24
Subtask 4.3	NRA, as appropriate, will attend and participate in other public meetings, including, but not limited to, city council meetings, county commissioners' court meetings, SWCD meetings, and NRA Clean Rivers Program (CRP) Steering Committee and Coordinated Monitoring meetings, in order to communicate project goals, activities, and accomplishments to affected parties.			
	Start Date	Month 1	Completion Date	Month 24
Subtask 4.4	NRA will develop and disseminate educational materials to watershed stakeholders, including, but not limited to, flyers, brochures, letters, and news releases. NRA will include project updates in the CRP Basin Summary Report and/or Basin Highlights Report. TSSWCB will host and maintain a webpage to serve as a public clearinghouse for all project-related information; NRA will provide content matter for the webpage. The website will serve as a means to disseminate information to stakeholders and the general public.			
	Start Date	Month 1	Completion Date	Month 24
Deliverables	<ul style="list-style-type: none"> <li>• Stakeholder contact list, updated as appropriate</li> <li>• Public meeting notices, agendas, materials, summaries and lists of attendees</li> <li>• Educational materials, as developed and disseminated</li> <li>• List of other meetings attended and dates with brief summary of topics discussed and action needed included in QPRs</li> <li>• Information developed for inclusion in CRP materials</li> </ul>			

<b>Tasks, Objectives and Schedules</b>			
Task 5	Survey and Inventory Possible Bacteria Sources		
Costs	\$31,200		
Objective	To develop a comprehensive GIS inventory for the study area, evaluate historical water quality data, and to assess the possible sources of bacteria loadings by conducting a watershed source survey.		
Subtask 5.1	<p>NRA will develop a comprehensive GIS inventory for the study area. Data should include the most recent information available on land use/land cover classification, elevation, soils, stream networks, reservoirs, roads, public parklands, municipalities and satellite imagery or aerial photography. Locations of TCEQ surface water quality monitoring stations, United States Geological Survey (USGS) gages, public access points to the waterbodies, floodwater-retarding structures, wetlands, Texas Pollutant Discharge Elimination System (TPDES) permittees (including WWTFs, Concentrated Animal Feeding Operations (CAFO)s and Municipal Separate Storm Sewer Systems (MS4)), and subdivisions should also be included. Sites permitted for land application of sewage sludge and septage should be included. Locations of possible bacteria sources, identified in Subtask 5.3, should be incorporated. The cumulative impact of TSSWCB-certified Water Quality Management Plans (WQMP)s on the management of agricultural and silvicultural lands should be documented.</p>		
	Start Date	Month 1	Completion Date Month 12
Subtask 5.2	<p>NRA will conduct a historical data review for the waterbody in order to assess and characterize trends and variability in water quality, specifically bacteria. Historical data collection activities should concentrate on 1) ambient water quality data; 2) streamflow and water level data; 3) precipitation records; and 4) permitted facilities, discharges, and effluent quality. At a minimum, USGS, National Weather Service, Texas Parks and Wildlife Department (TPWD), Texas Water Development Board (TWDB), NRA, TCEQ, and the U.S. Environmental Protection Agency (EPA) should be queried for data related to the study area.</p>		
	Start Date	Month 1	Completion Date Month 18
Subtask 5.3	<p>NRA will conduct a source survey (also known as a sanitary survey) that better characterizes the possible sources of bacteria loadings. The source survey should evaluate warm and cool seasons and low and high flow conditions. The source survey should evaluate sources like WWTFs, central sewage collection systems, on-site sewage facilities (OSSF), and MS4s. TPDES compliance issues should be examined. Wildlife, livestock and non-domestic animal populations should be examined. The source survey should draw from the pollutant loading model developed for TCEQ for use in the Copano Bay TMDL.</p> <p>Technical experts which should be consulted regarding possible sources of bacteria include, as appropriate to their jurisdiction and interest, TPWD, Texas Department of Agriculture (TDA), TCEQ, Texas AgriLife Extension Service, Texas Water Resources Institute, the University of Texas Center for Research in Water Resources, Houston Engineering Inc., U.S. Geological Survey (USGS), U.S. Fish and Wildlife Service (USFWS), United States Department of Agriculture Natural Resources Conservation Service (USDA-NRCS), USDA Agricultural Research Service (USDA-ARS), and affected municipalities, counties and SWCDs.</p>		
	Start Date	Month 1	Completion Date Month 10
Deliverables	<ul style="list-style-type: none"> <li>• Technical Report describing the comprehensive GIS inventory and results from the source survey, and characterizing trends and variability in historical water quality monitoring data.</li> </ul>		

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

- To collect needed data to evaluate factors affecting attainment of recreational use in Segment 2004A by collecting all necessary data required for a Comprehensive RUAA; specifically, observations and physical measurements will be made of Aransas Creek at several locations, survey information will be obtained from landowners familiar with the watershed and persons observed recreating in or near the creek, and review of historical records in Bee County.
- To facilitate public participation and coordinate stakeholder involvement to ensure that decision-making is founded on local input and that watershed action is successful by hosting and conducting public meetings, disseminating informational materials, and direct interaction with affected local entities.
- To assess possible sources of bacteria by developing a comprehensive GIS inventory, evaluating historical water quality data, and conducting a watershed source survey.

**Measures of Success (Expand from Summary Page)**

- Decision-making for RUAA activities is founded on local stakeholder input garnered at public meetings hosted for project and direct interaction with affected local entities.
- Obtain access to private lands to conduct RUAA surveys by obtaining permission from private landowners to gain access to survey sites on Aransas Creek through their property; approximately 5 sites are needed.
- Complete two RUAA surveys at each selected site as described in TCEQ’s RUAA guidance.
- Keep landowners and stakeholders informed regarding this RUAA through public meetings; a final public meeting where findings of the RUAA are presented constitutes this measure of success.
- Factors affecting attainment of recreation use are assessed and adequate data of known and acceptable quality is provided that either supports the existing use or supports changing the water quality standard.

**2005 Texas Nonpoint Source Management Program Reference (Expand from Summary Page)**

Goals and/or Milestone(s)

Element 1 – Explicit short- and long-term goals, objectives and strategies that protect surface... water

Long Term Goal – Objective A – Focus NPS abatement efforts, implementation strategies, and available resources in watersheds identified as impacted by NPS pollution.

Long-Term Goal – Objective G – Enhance public participation and outreach by providing forums for citizens... to contribute their ideas and concerns about the water quality management process.

Short-Term Goal One – Data Collection and Assessment – Objective A – Identify... waterbodies... from the Texas Water Quality Inventory and 303(d) List... that need additional information to characterize non-attainment of designated uses and quality standards.

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 Plan.

Short-Term Goal One – Data Collection and Assessment – Objective C – Conduct special studies to determine sources of NPS pollution and gain information...

Short-Term Goal Three – Education – Objective D – Conduct outreach through the Clean Rivers Program, SWCDs, and others to facilitate broader participation and partnerships [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.

Short-Term Goal Three – Education – Objective F – Implement public outreach and education to maintain and restore water quality in waterbodies impacted by NPS pollution.

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

Element 5 – The state program identifies water and their watersheds impaired by NPS pollution..., the state establishes a process to progressively address these identified waters by conducting more detailed watershed assessments...

### Part III – Financial Information

<b>Budget Summary</b>	
<b>Category</b>	<b>Costs</b>
Personnel	\$ 76,527
Fringe Benefits	\$ 22,958
Travel	\$ 4,180
Equipment	\$ 0
Supplies	\$ 1,000
Contractual	\$ 0
Construction	\$ 0
Other	\$ 4,380
Total Direct Costs	\$ 109,045
Indirect Costs ( $\leq 15\%$ )	\$ 16,357
<b>Total Project Costs</b>	<b>\$ 125,402</b>

<b>Budget Justification</b>		
Category	Costs	Justification
Personnel	\$ 76,527	<ul style="list-style-type: none"> <li>• Deputy Executive Director – Project Oversight (5%)</li> <li>• Assistant to Deputy Executive Director – project manager (20%) will perform administrative duties, QAO duties, GIS support and oversee the RUAA Surveys including analysis and technical reporting</li> <li>• Water Quality Specialist – will be a key staff member on all project aspects including the RUAA surveys, bacteria source survey and GIS support/analysis (20%)</li> <li>• Aquatic Resource Specialist – will be a key staff member on all project aspects including the RUAA surveys, bacteria source survey and GIS support/analysis (20%)</li> <li>• Information Systems Coordinator – will provide technical assistance as needed (5%)</li> <li>• Resource Protection and Education Director – will assist with outreach and stakeholder involvement (2%)</li> <li>• Director of Finance – budget oversight (5%)</li> </ul>
Fringe Benefits	\$ 22,958	Calculated at 30% of personnel salary
Travel	\$ 4,180	Travel for reconnaissance trip, public and stakeholder meetings, and RUAA surveys – includes lodging, per diem, vehicle rental, and gas expenditures.
Equipment	\$ 0	
Supplies	\$ 1,000	<ul style="list-style-type: none"> <li>• Miscellaneous presentation materials and supplies (\$200)</li> <li>• Printing and binding reports and handouts (\$400)</li> <li>• Advertising for meetings (\$400)</li> </ul>
Contractual	\$ 0	
Construction	\$ 0	
Other	\$ 4,380	<ul style="list-style-type: none"> <li>• GIS training (\$3,000)</li> <li>• Additional ArcGIS license (\$1,180)</li> <li>• Miscellaneous charges, such as postage (\$200)</li> </ul>
Indirect	\$ 16,357	Calculated at 15% of Total Direct Cost
SOURCE	TSSWCB will provide \$125,402 in non-federal funds sourced from state appropriations (FY2010 General Revenue) through the Nonpoint Source Grant Program to NRA.	