

CWA SECTION 319 PROJECT ABSTRACT
GRANT FISCAL YEAR: ____

Project Title:

Project Lead: Title:	
Mailing Address	
Work Telephone	
E-mail	
DUNS Number	

Discussion of Problem and Background:

Goal:

Objectives:

Methods:

Deliverables/Output:

Water Quality Benefits Expected:

Local Project Contact: Title:			
Mailing Address			
Work Telephone			
E-mail			
DUNS Number			
Project Budget	Federal \$	Nonfederal \$	Total \$

CLEAN WATER ACT SECTION 319(h) WORKPLAN
GRANT FISCAL YEAR: _____

1. PROJECT TITLE:

2. PROJECT LEAD:

Entity Name	
Primary Lead Name: Title:	
Mailing Address	
Telephone	
DUNS Number	
Fax	
E-mail	

2a. PROJECT LEAD ROLES AND RESPONSIBILITIES:

3. LOCAL PROJECT CONTACT:

Entity:	
Local Contact Name: Title:	
Mailing Address	
DUNS Number	
Work Telephone	
Fax	
E-mail	

3a. LOCAL PROJECT CONTACT ROLES AND RESPONSIBILITIES:

4. OTHER PROJECT PARTNERS:

- a) Entity:
- b) Roles and Responsibilities:

5. SCOPE:

6. GOAL:

7. OBJECTIVES:

8. OUTPUTS AND DELIVERABLES:

9. IMPLEMENTATION MILESTONES AND TIMELINE:

No.	Activities to Assure That Project Implementation is Timely and Reasonable	Timeline	Responsible Entity
1	Activity: Interim Measure:		
2	Activity: Interim Measure:		
3	Activity: Interim Measure:		

10. MEASURES AND INDICATORS OF PROJECT IMPLEMENTATION SUCCESS:

A: Core Indicators:

"X"	National Reporting Objectives
	Preserves and enhances public health
	Preserves and enhances ecosystem health
	Supports state water quality standards designations
	Conserves or improves ambient conditions
	Reduces or prevents pollutant loadings and other stressors

B: Approaches to Measure "Core Indicators" (10. A, above):

I. Water Quality Improvements from Nonpoint Source Controls

	Number (or percentage) of river or stream miles, lake acres, or estuarine/coastal square miles that fully support all designated beneficial uses
	Number (or percentage) of river or stream miles, lake acres, or estuarine/coastal square miles that come into compliance with one or more designated uses or with one or more numeric water quality criteria
	Improvement in surface or groundwater
	Improvement in biological, physical, or chemical parameters
	Opening of previously closed shellfish beds
	Lifting of fish consumption advisories
	Prevention of new impairments

II. Nonpoint Source Pollutant Load Reductions

	NPS load reductions (e.g., lbs, tons, %, etc.) in impaired or threatened waterbodies or watersheds
	NPS load reductions (e.g., lbs, tons, %, etc.) in priority watersheds identified by the State [e.g., 303(d)]
	Statewide reduction in NPS pollutant loadings
	Prevention or reduction of new NPS pollutant loadings which may result from activities conducted in the future; and/or, prevention or reduction of NPS pollutant loadings from existing sources
	Reduction or prevention of peak flow frequency or volume in developing or developed areas

III. Implementation of Nonpoint Source Controls

	On-the-ground best management practices to protect surface waters (e.g. numbers, types, etc.)
	Other management measures (e.g. education and outreach, training, technical assistance, technology transfer, TMDL/watershed management plan development/implementation, etc.)
	Plans developed/implemented that address erosion and sedimentation, stormwater runoff, nutrients, or pest management (e.g. number/type developed, implemented, approved, certified, etc.)
	NPS control implementation per watershed management plans that meet 9-key Section 319 grant guideline watershed plan elements
	Monitoring or analyses of best management practice design or implementation effectiveness

Management measures to protect groundwater
--

IV. Education and Outreach, Input, and Partnering

Education and outreach activities directed to solving particular citizen NPS issues, concerns, and problems
Survey conducted to measure changes in stakeholder perceptions, knowledge, attitudes, or behaviors over time
Participation in partnering activities such as volunteer monitoring and natural resource protection and restoration
Participation in local watershed or and large scope and scale multi-media outreach activities

11. EDUCATION AND OUTREACH, TECHNOLOGY TRANSFER, OR TECHNICAL ASSISTANCE TO BE PROVIDED:

12. ALABAMA NPS MANAGEMENT PROGRAM GOAL MILESTONES SUPPORTED:

Goal	“X”	Goal	“X”
1) Collect reliable water quality data and information in order to ascertain the extent, degree, and potential for NPS pollution to surface and groundwaters		7) Plan, sustain or expand statewide NPS education and outreach to target agriculture, silviculture, urban / construction, resource extraction, and hydrologic/habitat modification	
2) Integrate the Alabama NPS Source Management Program and CWA Section 319 grant funding with development and implementation of Total Maximum Daily Loads (TMDLs).		8) Report as applicable, monitored or modeled estimates of nitrogen (lbs), phosphorus (lbs) or sediment (tons) load reductions to help quantify the effectiveness of Section 319 projects in protecting water quality and attaining applicable water quality standards.	
3) Coordinate and leverage federal, state, and local funding and other resources to design, install, or maintain appropriate NPS management practices needed to attain water quality standards		9) Obtain NOAA and EPA Final Approval of the Alabama Coastal Zone NPS Management Program (CZARA)	
4) Develop 10 river basin management plans (8-digit Hydrologic Unit Code Cataloging Unit) that present practical “big-picture” goals, objectives, and milestones to protect impaired or threatened waters		10) Report annual Section 319 grants Program Administrative Efficiency Measures	
5) Develop or implement 10 sub-watershed protection plans (11-14 digit Hydrologic Unit Code subwatershed number) to provide reasonable assurance that load allocations for targeted sources and causes of NPS pollution are being addressed and water use classifications and standards can be restored as expeditiously as possible		11) Utilize a flexible, targeted, iterative, and broad-based approach to support EPAs long-term National Vision that, “ <i>All States Are Implementing Dynamic and Effective Nonpoint Source Programs Designed to Achieve and Maintain Beneficial Uses of Water.</i> ”	
6) Support the efforts of the Alabama Clean Water Partnership (CWP) Program			

13. THIS IS A STATEWIDE PROJECT:

YES	
NO	

13a. COUNTIES IN WHICH THIS PROJECT, IN WHOLE OR IN PART, WILL BE LOCATED:

FY Section 319
 Base / Incremental Project #
 Project Title:
 Date

14. PROJECT AREA IS LISTED AS BEING NPS IMPAIRED IN THE FOLLOWING:

Documentation Source	"X"
ADEMs 5-Year Rotational River Basin Assessment	
ASWCC and District Watershed Assessment	
S. 305(b) Integrated Water Quality Report	
S. 303(d) List of Impaired Waters	
Other:	

15. LAND USES WITHIN THE PROJECT AREA:

NPS Category	Number, percent, acres, miles, etc.,
Agriculture	
Forestry	
Construction	
Urban Runoff	
Mining/Resource Extraction	
Landfills	
Hydrologic/Habitat Modification	
Other	

16. WATERBODY TYPES:

Code	Description	"X"	Code	Description	"X"
CM	Rivers or Streams		CM	Coastal Marine	
RS	Reservoirs		ES	Estuaries	
ST	Streams		OC	Oceans	
LK	Lakes		TW	Tidal Wetlands	
PO	Ponds		WT	Non-Tidal Wetlands	
GW	Groundwater		Z-99	Other	

17. GEOGRAPHICAL EXTENT:

17a. RIVERS:

RIVER BASIN	[8-digit Watershed Boundary Dataset (WBD)] [Hydrologic Unit Code (HUC)]

17b. WATERSHED / SUBWATERSHED:

NAME/ID	[12-14 digit Watershed Boundary Dataset (WBD)] [Hydrologic Unit Code (HUC)]

17c. IMPOUNDMENTS

RIVER BASIN	LAKE/RESERVOIR NAME	[8-12 digit Watershed Boundary Dataset (WBD)] [Hydrologic Unit Code (HUC)]

18. THIS PROJECT WILL IMPLEMENT COMPONENTS OF A TOTAL MAXIMUM DAILY LOAD (TMDL)?

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

18a. TITLE OF TMDL:

18b. TMDL IMPLEMENTATION COMMENTS:

19. REQUESTED FUNDING IS NECESSARY TO COMPLETE AN ONGOING SECTION 319 FUNDED PROJECT, AND/OR OTHER FUNDING INITIATIVE IN THE PROJECT AREA?

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

20. IF THIS IS A MULTI-YEAR PROJECT, SUFFICIENT FUNDS TO COMPLETE THE PROJECT HAVE BEEN REQUESTED, ASSUMING THE REQUESTED S. 319 GRANT FUNDS ARE PROVIDED?

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

21. THIS PROJECT WILL RESULT IN DEVELOPMENT OF GEOGRAPICAL INFORMATION SYSTEM (GIS) DATA LAYERS.

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

22. THE LEAD ENTITY LISTED ON THE FIRST PAGE AGREES TO COMPLY WITH APPLICABLE EPA AND ADEM S. 319 GRANT AND WORKPLAN GUIDELINES.

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

24. PRIMARY SOURCES OF POLLUTION:

Category		Percent
All Sources		
Agriculture		
Aquaculture	Non-Irrigated Crop Production	
Grazing Related Sources	Pasture Grazing	
Irrigated Crop Production	Specialty Crop Production	
Construction		
Highways, Roads, Bridges	Land Development or Re-Development	
Hydromodification		
Channel Erosion/Incision	Other Habitat Modification	
Channelization	Removal of Riparian Vegetation	
Dam Construction	Streambank or Shoreline Modification/Destabilization	
Drainage/Filling of Wetlands	Upstream Impoundment	
Dredging	Other Habitat Modification	
Flow regulations/Modification	Removal of Riparian Vegetation	
Groundwater Withdrawals		
Land Disposal/Storage/Treatment		
Septage Disposal	Waste Storage Tank Leaks (Below Ground)	
Waste Storage Tank Leaks (Above Ground)	Wastewater	
Marinas and Recreational Boating		
Boat Construction	Other On-Vessel Discharges	
Boat Maintenance	Pumpouts	
Dredging	Sanitary On-Vessel Discharges	
Fueling		
Other		
Atmospheric Deposition	Recreational Activities (Non-boating)	
Erosion From Derelict Land	Spills	
Groundwater Loadings	Wildlife	
Natural Sources		
Silviculture		
Forest Management	Reforestation	
Harvesting, Residue Mgmt	Road Construction/Maintenance	
Urban Runoff/Stormwater		
Commercial	Municipal	
Dry Weather Flows	Post-Dev. Erosion and Sedimentation	
Highway/Road/Bridge Runoff	Residential -e.g., car/pet waste/etc.	
Illicit Connections	Municipal	
Turf Management		
Golf Courses	Yard Maintenance	
Other Turf Management		
Historical Pollutants		
Clean Sediments	Other Historical Pollutants	
Contaminated Sediments		
Total		100%

25. FUNCTIONAL CATEGORIES:

X	Activity	X	Activity
	319(h) National Monitoring Project		Ordinance Development
	Acquisition of Riparian Resources		Other Planning
	Acquisition of Wetland Resources		Other Program Management
	Animal Manure/Litter Management Projects		Other Restoration/Protection/Prevention
	Antidegradation Activities and Analyses		Other Technical Assistance Activity
	Assess for Compliance w/ WQ Standards		Other Water Quality Assessment/Monitoring
	Biological Monitoring		Program Development Activities
	BMP Design Implementation		Riparian Assessment/Monitoring
	BMP Effectiveness Monitoring		Riparian Projects
	BMP Performance/Assessment		Sediment Control
	BMP/Corrective Action (Other than BMP Implementation)		Soil Analyses
	Certification Activities		Statewide Education/Information Programs
	Develop/Revise Basin Plans		Stormwater Discharge Design/Control
	Enforcement Activities		Stormwater Management Planning
	Erosion Control Project		Stream Bank Stabilization
	Fencing for Livestock Distribution		Technical Assistance to State/Local
	Fisheries Projects		Technical Transfer to State/Local Gov.
	GIS		TMDL Assessments
	Grade Stabilization		TMDLs
	Groundwater (all groundwater activities)		Vegetation Management/Revegetation
	Inspection Activities		Water Quality Problem Identification
	Instream Flow Assessments		Water Quality Trend Assessment
	Livestock Control Projects		Watershed Assessments
	Livestock Grazing System Planning		Watershed Management Planning
	Local (Specific Target) Education/Information Programs		Watershed Modeling Watershed Specific
	Nonstructural Planning (for new development)		Watershed Modeling General Usage
	NPS Overall Coordination/Mgt.		Wetland Assessment/Monitoring
	NPS Project Staffing		Wetland Restoration/Protection
	Nutrient Management Planning		

26. BEST MANAGEMENT PRACTICES TO BE IMPLEMENTED:

X	BMP
	Access Road
	Agro Forestry Planting
	Agro Tillage
	Alley Cropping
	Alternative Septic Systems
	Alternative Water Sources
	Alum Treatment of Poultry Litter
	AMD - Anoxic Limestone Drain
	AMD - Constructed Wetland, Aerobic
	AMD - Constructed Wetland. Anaerobic
	AMD - Culvert Armoring
	AMD - Limestone Doser
	AMD - Limestone Leach Bed/Pond
	AMD - Limestone Open Channel
	AMD - Limestone Sanding
	AMD - Steel Slag Treatment
	AMD - Sulfate Reducing Bioreactor
	AMD - Vertical Flow Treatment System
	Animal Mortality Facility
	Anionic Polyacrylamide (PAM) Erosion Control
	Aquaculture Ponds
	Baffle Boxes
	Catch Basin – Leaching
	Channelbank Vegetation
	Check Dam
	Cistern
	Clearing and Snagging
	Closure of Waste Impoundment
	Coastal Wetland Vegetation Establishment
	Compost Facility
	Comprehensive Nutrient Mgmt Plan
	Conservation Cover
	Conservation Crop Rotation
	Conservation Easements
	Conservation Tillage
	Contour Buffer Strips
	Contour Farming
	Controlled Drainage
	Controlled Livestock Lounging Area
	Controlled Stream Access for Livestock Watering
	Cover Crop
	Critical Area Planting
	Cut Bank Stabilization
	Deep Tillage
	Ditch Stabilization
	Diversion
	Drainage Water Mgmt
	Dredging
	Fencing
	Field Border
	Filter Strip
	Firebreak
	Fish Stream Improvement
	Fishpond Management
	Forage Harvest Management

X	BMP
	Forest - Direct Seedling
	Forest - Improve Harvest
	Forest - Land Mgmt
	Forest - Trails & Landings
	Forest - Erosion Control
	Forest Land Management
	Forest Site Prep
	Forest Stand Improvement
	Furrow Diking
	Grade Stabilization Structure
	Grassed Waterway
	Grasses/Legumes Rotation
	Grazing – Deferred
	Grazing Land Mech. Treatment
	Grazing Planned System
	Green Roof System
	Green Screens
	Green Wall
	Heavy Use Area Protection
	Hillside Bench
	Hillside Ditch
	Hydroseeder
	Improved Water Application
	Incinerator
	Infiltration Ditches
	In-Lake Alum Treatment
	Invasive Species/Noxious Weed Control
	Irrigation Water Management
	Land Clearing
	Land Grading
	Land Reclamation
	Land Reclamation/ Toxic Discharge Control
	Land Reconstruction - Abandoned Mine
	Land Smoothing
	Land Subsidence Treatment
	Lined Waterway or Outlet
	Livestock Cooling Pad
	Livestock Shade Structure
	Livestock/Use Area Protection
	Long Term No Till
	Manure Transfer
	Mole Drain
	Mulching
	Native Plant Community Restoration & Mgmt
	Natural Channel Restoration
	Nutrient Management
	Oil and Grit Separator
	Onsite Wastewater Treatment Sys.
	Open Channel
	Outreach & Education
	Pasture and Hayland Mgt.
	Pasture/Hayland Planting
	Pathogen Management
	Pesticide Management
	Pipeline
	Planned Grazing Systems

X	BMP
	Planter Boxes
	Pollution Retention Reservoir
	Pond
	Pond Sealing and Lining – Bentonite Sealant
	Precision Land Forming
	Prescribed Burning
	Prescribed Grazing Use
	Pumped Well Drain
	Raingarden/Bioretention Basin
	Recreation Area Improvement
	Recreation/Trail Walkway
	Residue Mgmt - Direct Seed
	Residue Mgmt - Mulch Till
	Residue Mgmt - No-Till & Strip Till
	Residue Mgmt - Ridge Till
	Residue Mgmt - Seasonal
	Restoration & Mgmt of Declining Habitats
	Riparian Buffers – Vegetative
	Riparian Forest Buffer
	Riprap Shoreline
	Road Ditch Creation/Improvement
	Road Landing Removal
	Roof Runoff Management
	Row Arrangement
	Runoff management System
	Sediment Basin
	Sediment Forebay
	Seeding (re-vegetation)
	Silvopasture Establishment
	Sinkhole & Sinkhole Area Treatment
	Slope Roughening
	Slope Stabilization
	Spring Development
	Stock Trails/Walkways
	Storm Water Wet Detention/Chemical Treatment System
	Stream Channel Restoration (Dam Removal)
	Stream Channel Restoration (Stream Bed)
	Stream Channel Stability
	Stream Corridor Improvement
	Stream Crossing
	Streambank & Shoreline Protection
	Strip – Intercropping
	Stripcropping - Contour
	Stripcropping - Field
	Stripcropping - Wind
	Structure for Water Control
	Subsurface Drain
	Surface Drain Field Ditch
	Surface Drain Main or Lateral
	Surface Roughing
	Surface Wetting

X	BMP
	Terrace
	Tree Shrub Establishment
	Tank/Trough
	Two (2) Stage Ditches
	Underground Outlet
	Urban – Onsite Water Treatment System (Pumpout)
	Urban – Onsite Water Treatment System (Centralized)
	Urban – Onsite Water Treatment System (New/Existing)
	Urban Catch Basin
	Urban Catch Basin - Oil
	Urban Catch Basin - Sand
	Urban Concrete Grid
	Urban Extended Detention Pond
	Urban Filtration Basin
	Urban Grassed Swale
	Urban Infiltration Basin
	Urban Infiltration Trench
	Urban Porous Pavement
	Urban Stormwater Wetland
	Urban Vegetated Filter
	Urban Wet Pond
	Use Exclusion
	Variable Applicator Rate Technology
	Vegetated Buffer Strips
	Vegetated Sinkhole Buffer
	Vegetated Swales
	Vegetative Barrier
	Vertical Drain
	Waste Facility Cover
	Waste Management System
	Waste Storage Pond
	Waste Storage Structure
	Waste Treatment Lagoon
	Waste Utilization
	Waste Water Irrigation
	Water Bars
	Water Harvesting Catchment
	Water Quality Monitoring
	Water Well
	Watershed Management Plan
	Water Spreading
	Wetland - Constructed
	Wetland - Creation
	Wetland - Enhancement
	Wetland Acquisition-Protection
	Wetland Restoration
	Wildlife Upland Mgmt.

***Other NPS Best Management Practices That May Be Implemented to Achieve Project Goals and Objectives:**

FY Section 319
 Base / Incremental Project #
 Project Title:
 Date

27. NPS POLLUTANTS:

“X”	Pollutants To Be Addressed	Estimated Pollutant Load Reductions	TMDL (Yes or No)	Comments
	Acid Mine Drainage			
	Alkalinity			
	Algal Growth/Chlorophyll			
	Alteration/Flow			
	Alterations (Habitat –other than flow)			
	Ammonia			
	Biological Oxygen Demand (BOD)			
	Chemical Oxygen Demand (COD)			
	Conductivity			
	Dissolved Oxygen (Low)			
	Exotic Species			
	Herbicides			
	Inorganics (Other)			
	Metals			
	Nutrients			
	Oil and Grease			
	Organics (Other Nonpriority)			
	Organics (Other Priority)			
	Other			
	Pathogens (E. coli)			
	Pesticides			
	pH			
	Phosphorus			
	Plants (Noxious Aquatic)			
	Sedimentation/Siltation			
	Suspended Solids			
	Taste and Odor			
	Temperature/Thermal Modification			
	Toxics (Total)			
	Turbidity			
	Unknown Toxicity			

B. Name of model used to estimate pollutant load reductions:

NPS Pollutant Load Reduction Estimates for Nitrogen, Phosphorous, and Sediments Must Be Reported to the ADEM NPS Unit Within 1-Year of Project Begin Date, and at least Annually thereafter, for the Duration of the Project. Actual Water Quality Monitoring Data or Models (<http://gis-server.tetrattech-ffx.com/step1/>) may be used to Report Load Reductions. Natural variability and difficulty in precisely predicting the performance of management measures over time is recognized.

C. Comments:

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28. PROJECT BUDGET:

(Duration of Project = Years)

Category	Section 319 \$	Non-Federal \$	Non-Federal Source	Totals
1. Personnel (List FTEs below):				
2. Fringe (% of salary):				
3. Travel (Per diem @ \$___)				
4. Equipment:				
5. Supplies:				
6. Management Measures:				
7. Other:				
Total Direct:				
Total Indirect (% of salary):				
Total Budget:				

WATERSHED PROJECTS

1. THIS PROJECT WILL IMPLEMENT COMPONENTS OF A WATERSHED MANAGEMENT PLAN:

Title / Developed By	Date

2-. SECTION 319 GRANT FUNDS WILL BE USED TO COLLECT WATER QUALITY MONITORING OR ASSESSMENT DATA AND INFORMATION DURING THIS PROJECT?

YES	
NO	

Note: If "Yes" - A Quality Assurance Project Plan (QAPP) must be submitted and approved by EPA or ADEM prior to expenditure of Section 319 grant funding.

3a. QAPP COMMENTS:

4. WATER QUALITY MONITORING ELEMENTS:

"X"		"X"		"X"	
	Not Applicable		Chemical/Physical		In-Lake/Reservoir
	Biological		Habitat		Groundwater
	Sediment		Volunteer Citizens		Modeling

5. WETLANDS, STREAMBANKS, AND SHORELINES:

"X"	Activity	Extent (acres, feet, etc.)
	Wetlands Restored	
	Wetlands Created	
	Streambanks Protected	
	Streambanks Stabilized	

6. A MAP OF THE TARGETED WATERSHED AND PROJECT SITE IS ATTACHED?

YES	
NO	

6a. THE APPROXIMATE LOCATION OF CRITICAL AREAS IN WHICH MANAGEMENT MEASURES WILL BE IMPLEMENTED IS DELINEATED?

YES	
NO	

7. ADDITIONAL EDUCATION, TECHNICAL, REGULATORY, AND FINANCIAL (Other than Section 319) ASSISTANCE AND AUTHORITIES THAT WILL BE NEEDED OR RELIED UPON TO IMPLEMENT THIS PROJECT (e.g., EQIP; CRP; AFO/CAFO Rule; TMDLs; Stormwater Phase II; other federal, state, local, and private funds)