

§ 319 Grant Funding Request for Proposals 2009



Nonpoint Source Pollution Control

Proposals due August 31, 2009

Submit proposal (one paper and one electronic copy) to:

Reggie L. Coleman
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Office of Environmental Assessment
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Baton Rouge, LA 70821-4314
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(No Faxes. Electronic Copies must be in MS Word)

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Request for Proposals for Fiscal Year 2009

Louisiana Department of Environmental Quality

Nonpoint Source §319(h) Funding

Introduction

The Louisiana Department of Environmental Quality (DEQ) is seeking proposals to address nonpoint sources of pollution in the state. Federal grant monies will be available under Section 319(h) of the Clean Water Act. Funding and oversight of selected proposals will be administered by the Water Quality Assessment Division of the DEQ.

Who is eligible to apply?

The following agencies and organizations are eligible to apply for and receive 319 funds:

- State and local governments
- Non-government organizations
- Non-profit organizations
- Federally recognized tribal groups within Louisiana

Purpose of This Request for Proposal (RFP)

The Louisiana Department of Environment Quality (LDEQ) is requesting project proposals for fiscal year 2009.

LDEQ is offering grant funds for projects that will provide watershed improvement initiatives and identify and reduce anthropogenic nonpoint source water pollution.

Nonpoint source (NPS) pollution is the leading cause of water quality degradation in the United States and poses a substantial problem for the health of Louisiana's streams and rivers. These grant funds are being made available under §319(h) grants of the Clean Water Act, to state and local governments, non-government organizations, non-profit organizations, and federally recognized tribal groups within Louisiana to address NPS water pollution.

Scope of Work

In the 2009 RFP, the LDEQ 319 Nonpoint Source Water Program is requesting project proposals for the purpose of implementing on-the-ground projects that are aimed at controlling, reducing, and/or managing nonpoint source pollution.

Funding priority will be given to proposals that include a project and/or program designed and intended for addressing waterbody impairments caused by nonpoint source pollution on a stream subsegment(s) currently listed on the Louisiana 2008 303(d) List of Impaired Waterbodies or a subsegment(s) at risk of becoming impaired by nonpoint source pollution. Project proposals addressing source water protection will also be considered. Proposals are requested for projects or programs that can provide nonpoint source pollution awareness/education/outreach, BMP implementation, restoration strategies/solutions, identification of specific sources and the extent of nonpoint source pollution from these sources, monitoring to show the effects of nonpoint source pollution on water quality or aquatic biota, monitoring to show water quality improvement where BMPs have been implemented, or a

combination of these elements. Specifically, LDEQ is seeking projects that will address the pollutants of concern which are commonly listed as causing water quality standards violations: fecal coliform (bacteria), sediment/total suspended solids, BOD, and nutrients. Projects should implement control measures, best management practices, restoration work and/or education and outreach to address the commonly identified sources of these pollutants such as failing septic tanks/home sewage systems, streambank erosion, erosion from construction sites, runoff from silvicultural operations, and urban runoff.

Special consideration will also be given to project proposals addressing waterbody subsegments where a TMDL has been developed. A list of approved TMDLs can be viewed at <http://www.deq.louisiana.gov/portal/tabid/1563/Default.aspx>. Impaired watershed subsegments are listed in Appendix A of the Louisiana Water Quality Integrated Report which can be viewed at <http://www.deq.louisiana.gov/portal/tabid/130/Default.aspx>. In addition, a list of all subsegments can be found in the subsequent documentation on the CD titled 2008 303d List.

Targeted watershed basins for FY '09 are statewide. We encourage you to review the "Louisiana Nonpoint Source Management Plan" by going to our website, <http://nonpoint.deq.louisiana.gov/wqa/NPSManagementPlan.htm> to become familiar with our program's goals, objectives, and timeline. The "Nonpoint Source Management Plan" was developed by LDEQ and outlines the state's watershed management strategies to restore the designated uses to impaired waterbody subsegments. A list of all the impaired waterbody subsegments in Louisiana can be found on the most currently approved 303(d) list (Appendix A of Louisiana Water Quality Integrated Report). The plan includes LDEQ's process for achieving this goal and a timeline for implementing restoration actions.

LDEQ and EPA are placing strong emphasis on achieving measurable results. Highest priority will be given to projects that are designed, implemented, and/or include monitoring to show measurable results, such as, implementing innovative BMP projects or restoration projects to control nonpoint pollution, quantifying in-stream water quality improvements, estimating or modeling pollutant load reductions, or quantifying nonpoint source loading. LDEQ will also give special consideration to proposals for water quality monitoring in targeted watersheds that will provide data needed to determine where nonpoint sources are affecting water quality and/or to quantify water quality improvements where BMPs or restoration projects have been implemented.

Educational projects shall also include a mechanism to measure their effectiveness by documenting knowledge improvements or changes in behaviors resulting from educational project efforts that lead to improved water quality. Proposed educational programs should promote broad awareness and implementation of activities that can help protect waters from degradation by new and expanding land use activities that increase nonpoint source pollution. This is in recognition of the continued need to prevent waters that currently are not impaired by nonpoint pollution from becoming impaired. This is particularly true for those waters whose water quality is threatened by changing land uses. We expect that educational proposals should relate to an entire basin or watershed

Required Format for Project Proposals

Project proposals MUST use the following format. Font size should be 12pt. Page layout for all pages should be on the vertical plane. Feel free to use bullets, where appropriate, instead of

using complete sentences. Proposal work descriptions should be brief. Concise documents are encouraged as long as the following information is adequately addressed.

I. Cover Sheet (Appendix B)

- **Project Title**
- **Name of Grant:** FFY 2009 Section 319(h)
- **Proposed Budget:** Federal amount \$
Match amount \$ (40% of Total amount)
Total amount \$
- **Project Funding Period:** Projects are typically funded for a period of 36 months.
- **Project Area:**
 - Louisiana 8-digit watershed subsegment code(s) (Appendix C)
 - List if a TMDL has been approved or is under development for that watershed (Appendix C). Also include the 303(d) listed impairment for that watershed (Appendix C).
- **Sponsoring Cooperator:**
 - Mailing address
 - Contact person: name, mailing address, phone, fax, and email address
 - Federal taxpayer I.D. number
- **Date Submitted:**

II. Executive Summary (limit one page)

- This should be a brief summary of project suitable for public distribution. Information given should be sufficient to clearly understand the purpose of the proposed work. Be sure to identify where or how the project relates to the NPS management plan such as by indicating the page number(s) or section(s) of the management plan. Include technical language where appropriate.

III. General Description of Watershed

- Location (include 8 ½ x 11 copy of USGS 1:24000 scale topographic quadrangle map with project boundaries). Maps can be created using LDEQ Make-A-Map (Appendix C).
- Size
- Location of priority funding areas
- Major initiatives underway or planned
- Unique characteristics
- Water quality impairment identified under the 303(d) list (Appendix C)
- Summarize any past assessment reports, studies, implementation projects that identify water quality threats or problems.

IV. Project Goal and Objectives (limit to one page)

- **Goal:** Describe the condition you wish to change; a single statement summarizing the overall purpose of the project
- **Objectives:** List statements of what is to be accomplished in a measurable, practicable form. Include desired outcomes of your work activities, rather than the activities themselves. Implementation projects should emphasize the measures that will actually be implemented during the project period.
- **Measurable Results:** Link project objectives to expected measurable environmental results (e.g., miles of stream to be restored, acres of wetlands created, pounds of pollutants removed, habitat improvement, etc.). Describe appropriate monitoring components or other evaluation methods to determine the effectiveness of the project. For direct implementation projects, e.g., those designed to reduce sediment or nutrient loads, load reduction estimates must be provided in your proposals. See Appendix D for additional information about measurements of success.

V. **Project Activities and Deliverables** - Please provide the following information for each objective listed under your goal.

- **Activities:** Specific task(s) to accomplish each milestone
- **Funds:**
 - Federal funds requested for each specific task
 - Matching funds provided for each specific task
- **Timeline:** Period of time in which each activity will take place (e.g. Month 1 – Month 8)
- **Responsible entity:** Group or individual responsible for the activity
- **Deliverables:** Anticipated accomplishments or outcomes for each activity expressed in quantifiable terms; these are measures of success, include a completion date for deliverables (QAPP, quarterly progress reports, manuals, maps, pictures, draft and final reports, etc.)

VI. **Detailed Project Budget** – Please provide total budget summary (Appendix B).

Personnel (Salary and Fringe) List position titles, number of personnel, and fringe.

Training (in state/out of state) Include total amount requested and characterize the type of training (e.g., ArcInfo Training).

Operating Service Specify items (including fax, telephone charges) and total.

Travel/Conferences (in state/out of state) List trip amounts, including the mileage, per diem, estimated number of trips in-state and out-of-state, and other costs.

Equipment Identify each individual item of equipment to be purchased which has an estimated acquisition cost of \$5,000 or more. The equipment listed should be necessary tools for the completion of the proposed project.

Materials & Supplies “Supplies” means all tangible property other than “equipment.” The budget detail should be specific in identifying categories of supplies to be procured, e.g., laboratory or office supplies. Specifically list all software to be purchased. Identify each supply item to be purchased which has an estimated acquisition cost of over \$1,000 and which has a probable useful life of more than one year beyond the date of acquisition.

Indirect Costs

Note: Stream restoration projects should have funds focused on implementation activities (e.g., construction), not design activities.

VII. Budget Justification - Detailed explanation and justification of costs in budget (Appendix B)

Guidelines for Project Proposals

I. Ineligible Activities

Section 319 funds may not be used to implement specific requirements of draft or final NPDES stormwater permits or to implement permit application requirements of EPA’s storm water regulations. Funds may not be used to pay for best management practices or “end of pipe” treatments that are required as part of a draft or final NPDES permit.

In addition, **all applicants must be up-to-date on the submission of progress reports, invoices and other deliverables pursuant to any currently funded projects with LDEQ.** Incomplete proposals that do not include all requested information will be disqualified for consideration.

II. Required Matching Funds

LDEQ requires that all proposals that are submitted for funding consideration include a minimum 40% non-federal match for all federal dollars. These match funds may be cash or in-kind services that are not provided by federal funds or used to match other sources of federal funds. Matching funds must be fully documented, and must meet the same eligibility requirements as federally funded portions of the grant.

Formula for Calculation of Match

Sample Calculation

$$\frac{\text{Federal Amount Requested}}{60\%} \times 40\% = \text{Match}$$

$$\frac{\$6,000.00}{.60} \times .40 = \$4,000.00 \text{ Match}$$

\$10,000 Total Project Budget

III. Quality Assurance Project Plan

All projects that include environmental monitoring, measurements, or data collection must have an approved Quality Assurance Project Plan (QAPP) in place PRIOR TO THE START OF DATA GENERATION OR EQUIPMENT PURCHASE. **If the proposed project will include monitoring, measurements, or data collection, a draft copy of Sections A5 - Problem Definition and Background, A6 - Project/Task Description, B1 - Sample Process Design, and B2 - Sampling Methods of the QAPP must be completed and submitted with the proposal.** If a project will require a QAPP, all budgetary, timeline, and other associated provisions should be addressed and outlined in the proposal. Refer to the web link in Appendix C for EPA guidance on QAPPs. An example QAPP is located in the Notice for 319 Funds drop down menu at <http://nonpoint.deq.louisiana.gov/wqa/default.htm>.

IV. GIS Requirements

Geographical Information Systems (GIS) is a method for capturing, storing, checking, integrating, manipulating, analyzing, and displaying spatially referenced data both digitally (softcopy) and through hardcopy maps. All Section 319-funded projects/activities including a GIS component must follow GIS guidelines in order to be compatible and acceptable by LDEQ. If the applicant involved is not capable of following these guidelines, the proposed GIS project will not be eligible for funding, as this may affect the technical competency of the project. Specific GIS guidelines and references are available in the attached Appendix E.

V. Submission of Proposals

**Proposals should be received by LDEQ
on the following date:**

August 31, 2009

Proposals should be received by LDEQ no later than August 31, 2009 for consideration in the FY 2009 319 grant package. Faxes will not be accepted. Two copies should be mailed or delivered, and one copy transmitted electronically to:

Reggie L. Coleman
Louisiana Department of Environmental Quality
Office of Environmental Assessment
P.O. Box 4314
Baton Rouge, LA 70821-4314
(225) 219-3585
Reggie.Coleman@LA.gov

Schedule

LDEQ will make every effort to adhere to the following schedule:

Tentative Action	Responsibility	Expected Date
Issue RFP	DEQ	July 17, 2009
Deadline for Proposal Submission	Project Applicant	August 31, 2009
Proposal Evaluation	DEQ	2-3 Wks
Workplan Submittal to EPA	DEQ	2-3 Wks
Workplan Review/Approval by EPA	DEQ, USEPA	4 Wks
Notification to Successful Applicants	DEQ	December 1, 2009
Contracts Awarded	DEQ, Project Applicant	TBD

Proposal Checklist

- Cover Sheet
- Executive Summary
- General Description of Watershed
- Project Goal and Objectives
- Project Activities and Deliverables
- Detailed Project Budget
- Budget Justification
- QAPP sections A5, A6, B1, and B2 for projects that will include monitoring, measurements, or data collection
- Submit two paper copies of the proposal**
- Submit an electronic version of the proposal in MS Word via e-mail or on CD-ROM.**

Reimbursement Guidelines

Funds provided through Section 319 are reimbursable. Specifically, funds are expended by the contracted organization and then reimbursed by DEQ. **Advance payments are not provided through this grant.**

Invoices with appropriate qualifying documentation must be submitted for reimbursement on a quarterly basis along with a Quarterly Project Monitoring Report and work product deliverable as described in the project's Scope of Services.

Reporting Requirements for "Approved Projects"

Approved projects are required to report the project work progress and/or project status to LDEQ through submittal of the following documents:

Quarterly Monitoring Reports document progress toward achievement of the milestones. They contain information about 1) activities scheduled for the quarter, 2) activities conducted during the quarter, and 3) an explanation of any discrepancies between the two, if necessary. Quarterly reports are due in January, April, July, and October.

Annual Reports summarize the progress of the project towards the achievement of milestones. They contain a summary of the information contained in all of the Quarterly Monitoring Reports for the past federal fiscal year. Annual Reports are due on October 30th. In addition to submitting an annual report, it is mandatory that all award recipients present their progress at the Section 319 annual project review session to be held the second Wednesday and Thursday of November at the LDEQ in Baton Rouge, LA.

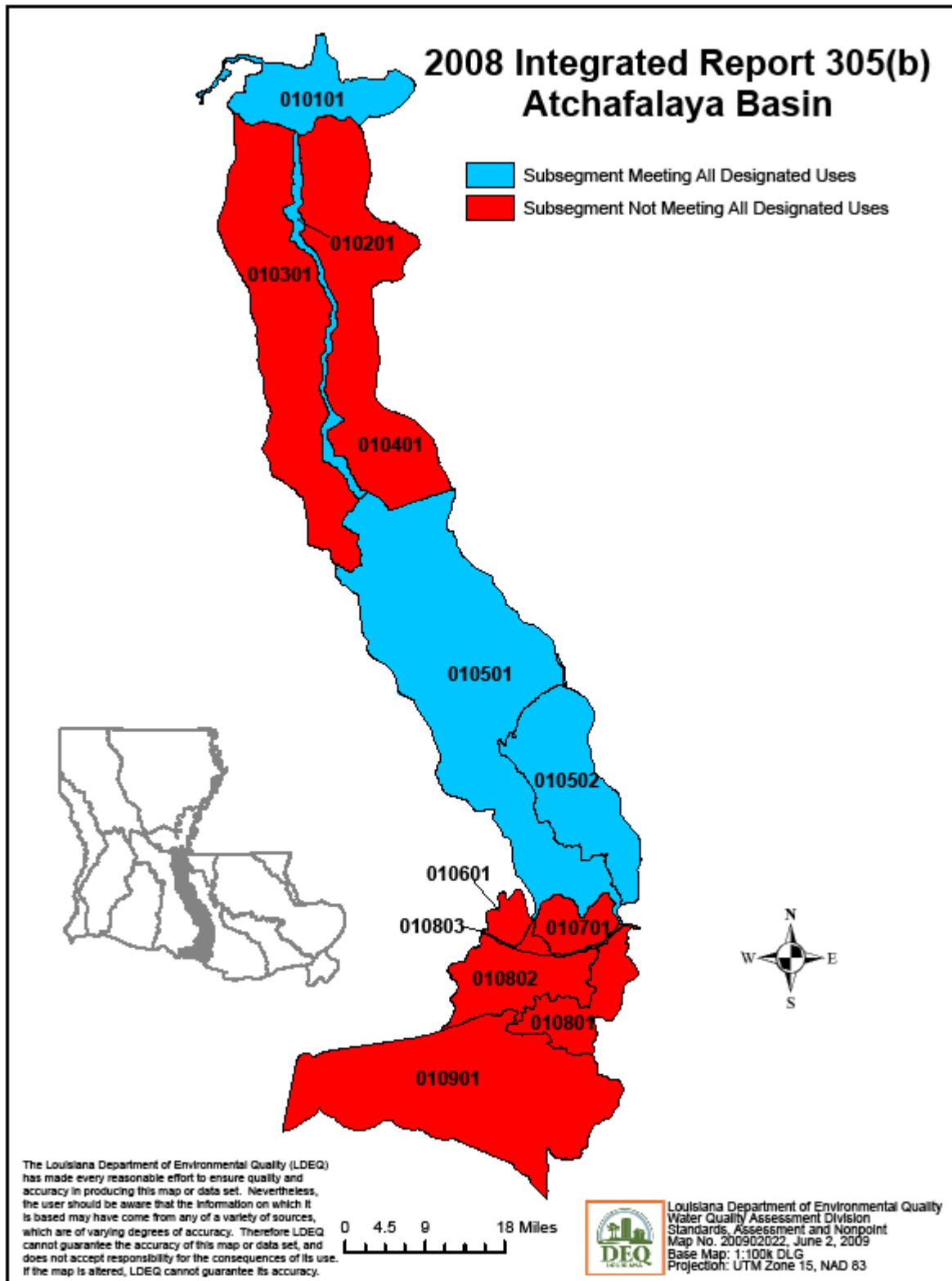
Final Reports are lengthier, more substantial reports. They contain summaries of activities conducted over the entire project period and, more importantly, report conclusions. Whereas the Quarterly Monitoring Reports document what happened, the Final Report documents the significance of the activities conducted during the grant period. The final report should contain enough detail so that a person who is not familiar with the project can read it and understand the project's 1) goals, 2) methods, 3) achievements, 4) significance, and 5) recommendations. With the final report, project contractors must submit a one page abstract suitable for distribution in newsletters, on-line, etc. Final reports are due within 60 days prior to the contract end date.

Photographs – Project related photographs are encouraged since they help illustrate and document project progress. When applicable before and after photographs and photographs documenting project actions taken should be submitted with Quarterly Monitoring Reports and included in Annual and Final Reports.

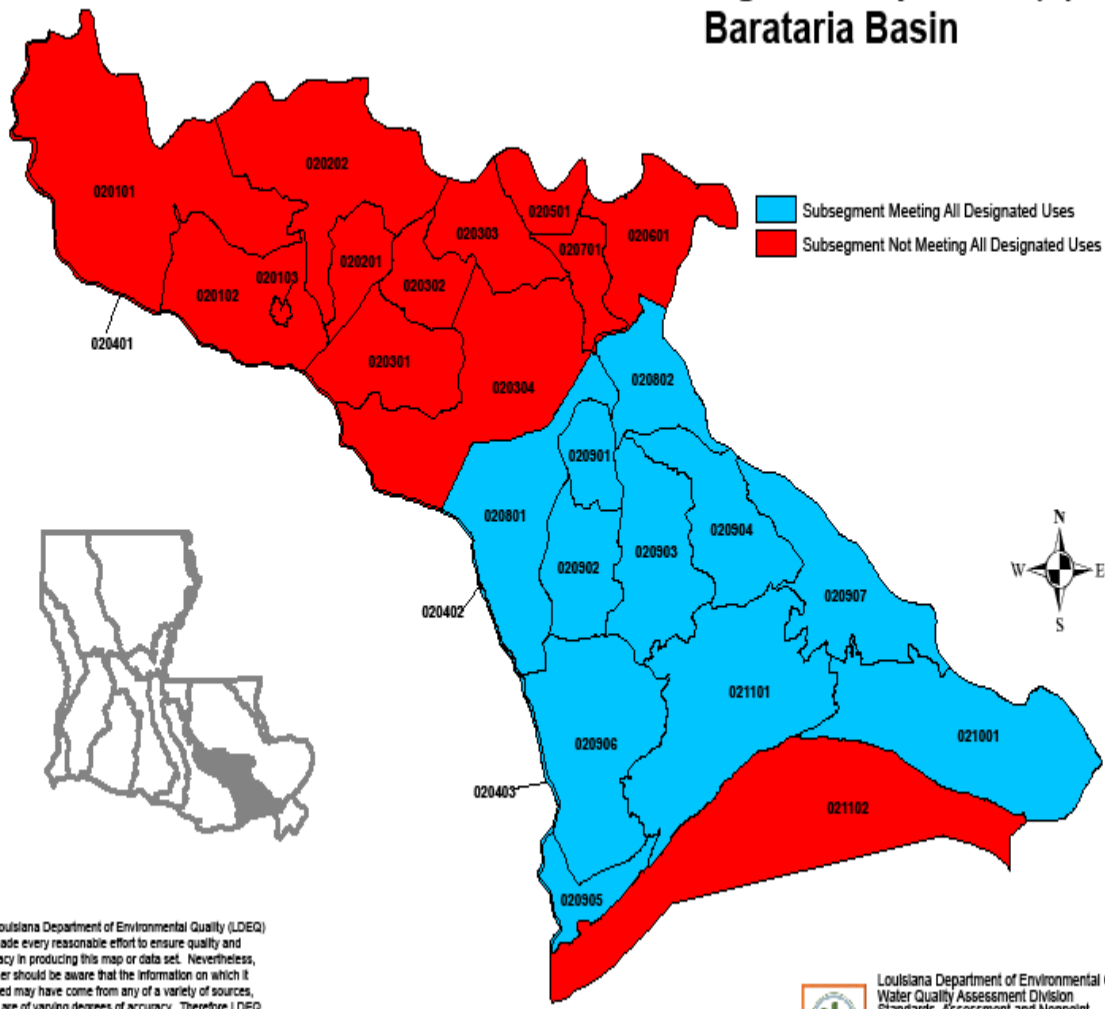
Measurable Environmental Results (MERs) - EPA is requiring that all 319 funded projects report measurable environmental results (MERs). The intent of MERs is to focus on implementation of nonpoint source controls, specific educational activities, water quality improvements, and specific nonpoint source load reductions. Projects should describe implementation of NPS controls (e.g., type of BMPs), miles of stream to be restored, acres of wetlands created, habitat improved, etc. Projects should also describe specific locations where BMPs are to be implemented.

Education projects should describe the number of people that received brochures or pamphlets, responded to surveys, or attended events, etc. For direct implementation projects e.g., those designed to reduce sediment/nutrient loads, calculation of load reduction estimates must be included in your scope of work. In addition, actual load reductions must be reported after one year of project implementation. Implementation projects that are completed in less than a year will need to report load reduction estimates at the time of completion. Nonpoint pollutant load reduction estimates may be based on the USDA Revised Universal Soil Loss Equation (RUSLE) or other acceptable methods for calculating nonpoint pollutant load reduction estimates. Projects should clearly identify which methodology has been chosen to calculate load reductions. MER information collected by the Nonpoint Source Program will be reported in EPA's Grant Reporting and Tracking Database.

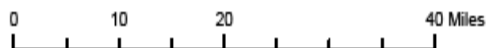
APPENDIX A – Basin Maps



2008 Integrated Report 305(b) Barataria Basin





The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of accuracy. Therefore LDEQ cannot guarantee the accuracy of this map or data set, and does not accept responsibility for the consequences of its use. If the map is altered, LDEQ cannot guarantee its accuracy.

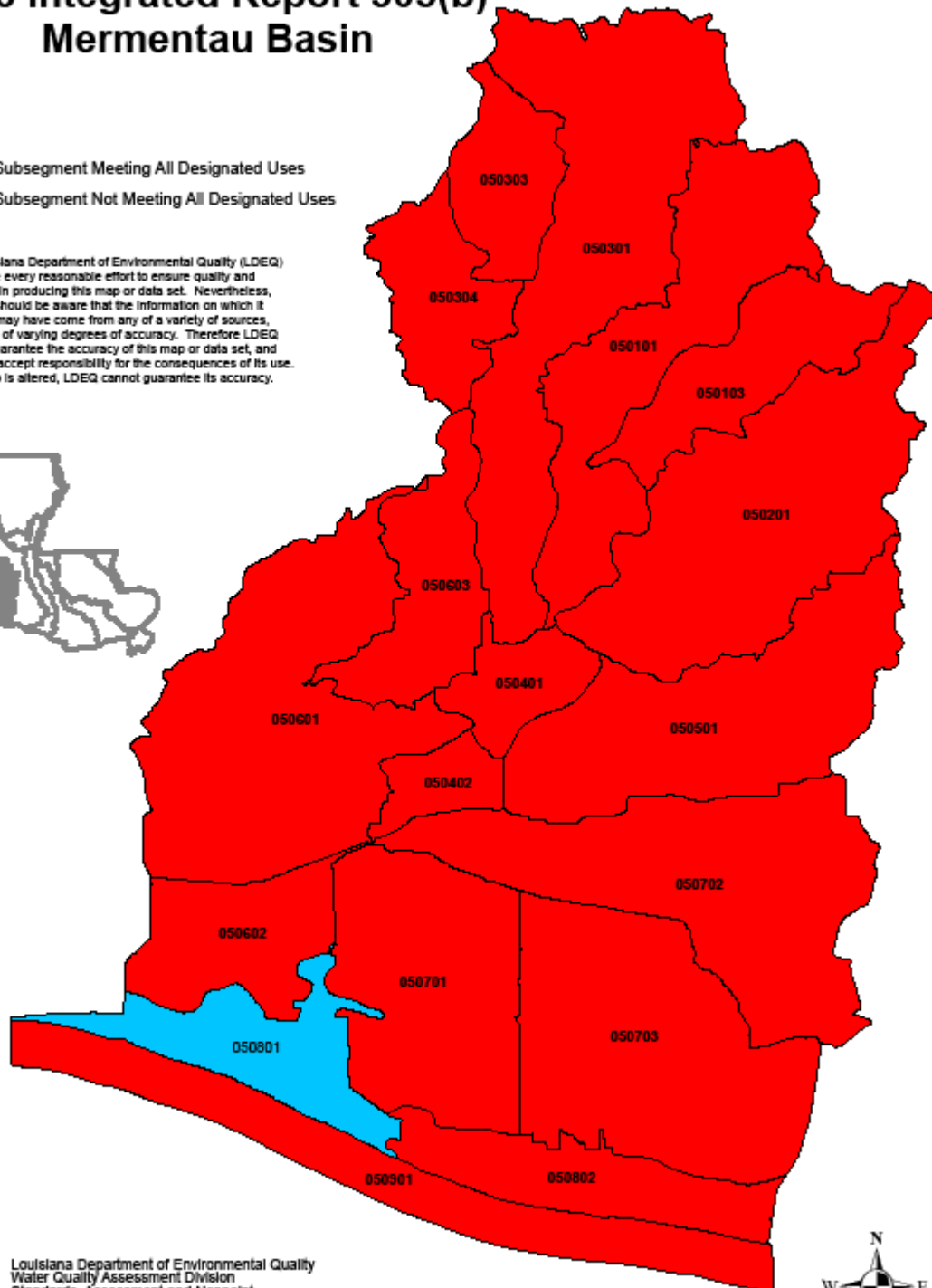


Louisiana Department of Environmental Quality
 Water Quality Assessment Division
 Standards, Assessment and Nonpoint
 Map No. 200902023, June 2, 2009
 Base Map: 1:100K DLG
 Projection: UTM Zone 15, NAD 83

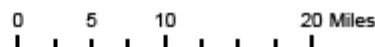
2008 Integrated Report 305(b) Mermentau Basin

-  Subsegment Meeting All Designated Uses
-  Subsegment Not Meeting All Designated Uses

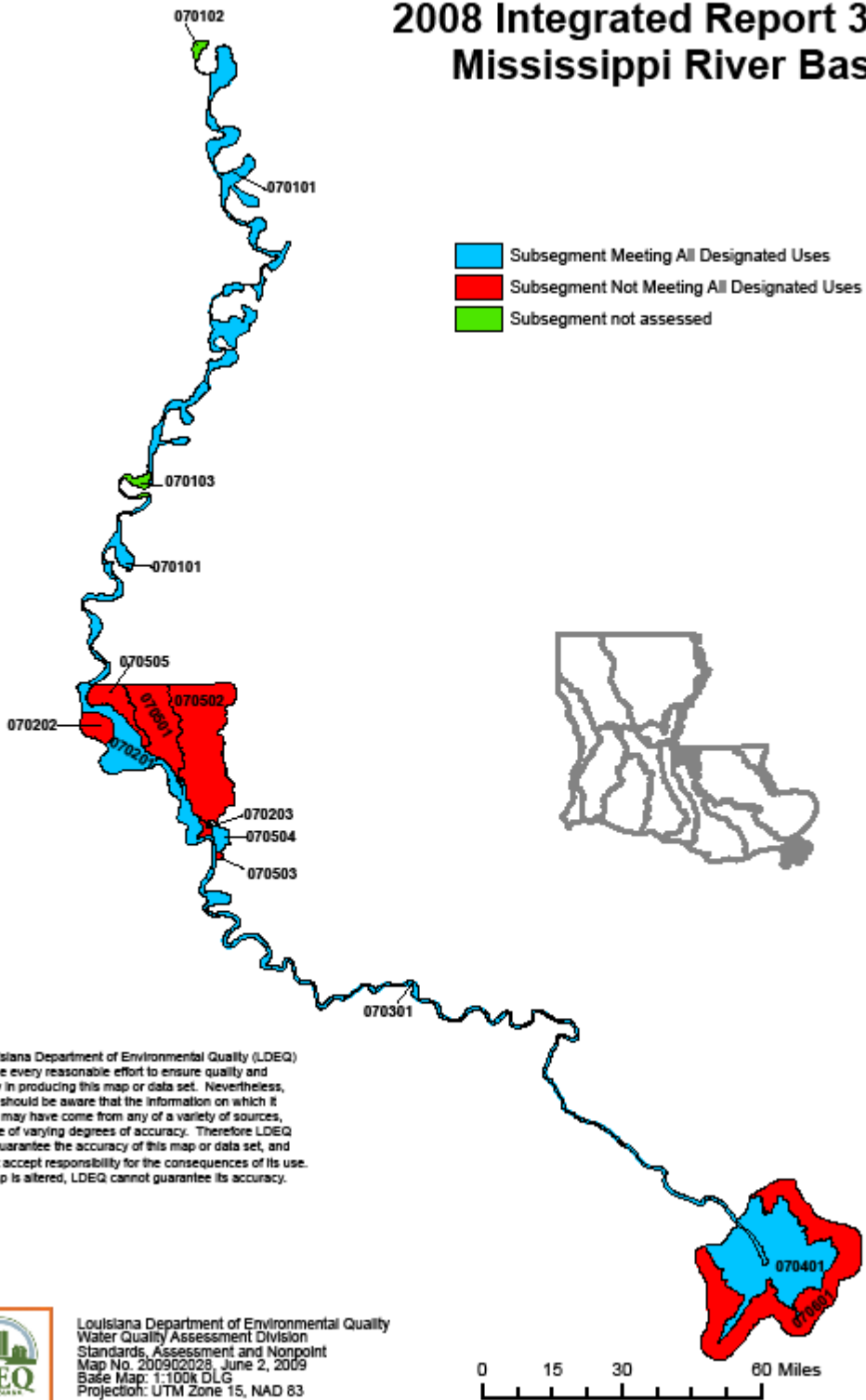
The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of accuracy. Therefore LDEQ cannot guarantee the accuracy of this map or data set, and does not accept responsibility for the consequences of its use. If the map is altered, LDEQ cannot guarantee its accuracy.



Louisiana Department of Environmental Quality
Water Quality Assessment Division
Standards, Assessment and Nonpoint
Map No. 200902026, June 2, 2009
Base Map: 1:100k DLG
Projection: UTM Zone 15, NAD 83



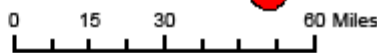
2008 Integrated Report 305(b) Mississippi River Basin



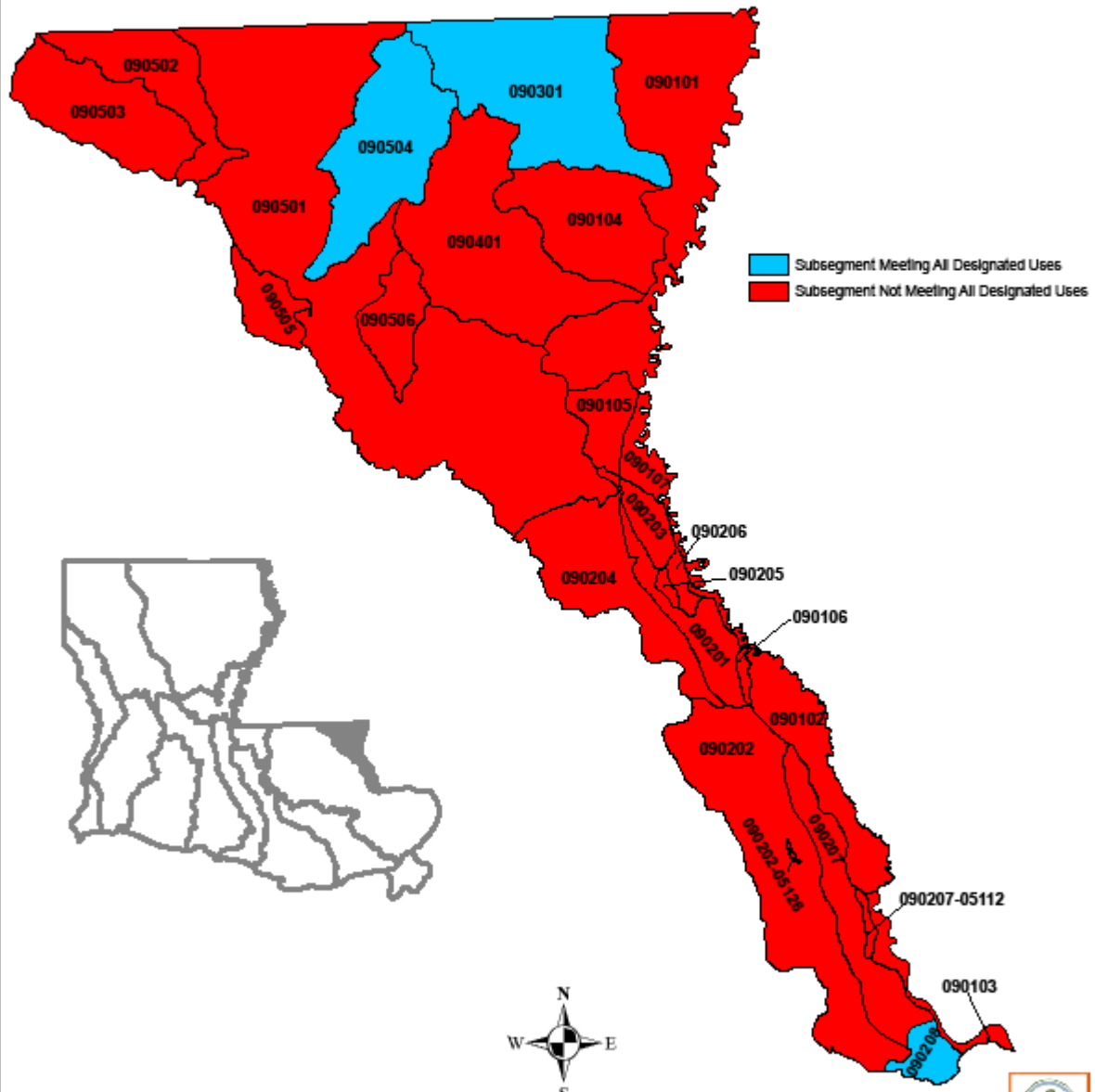
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Louisiana Department of Environmental Quality
Water Quality Assessment Division
Standards, Assessment and Nonpoint
Map No. 200902028, June 2, 2009
Base Map: 1:100k DLG
Projection: UTM Zone 15, NAD 83



2008 Integrated Report 305(b) Pearl River Basin

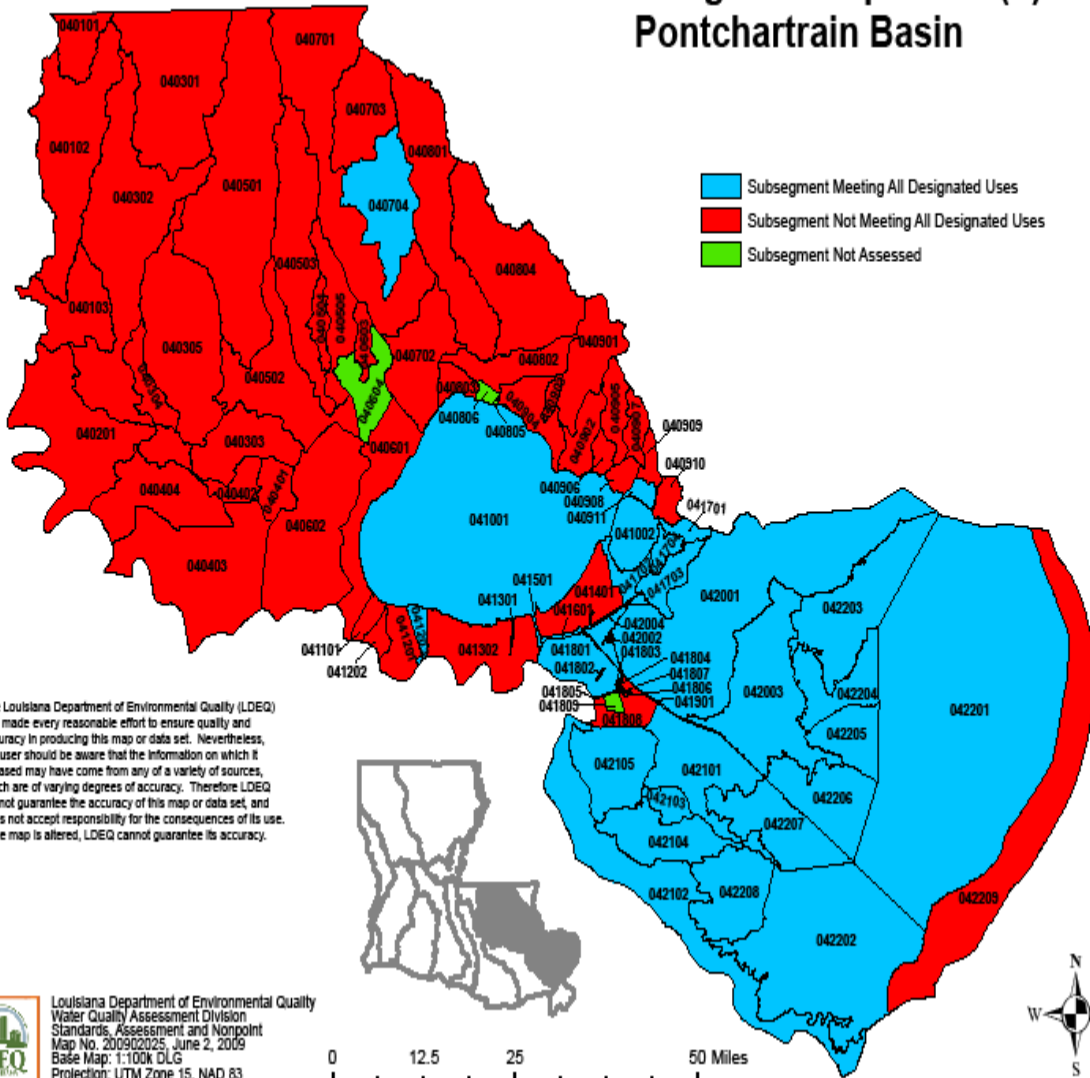


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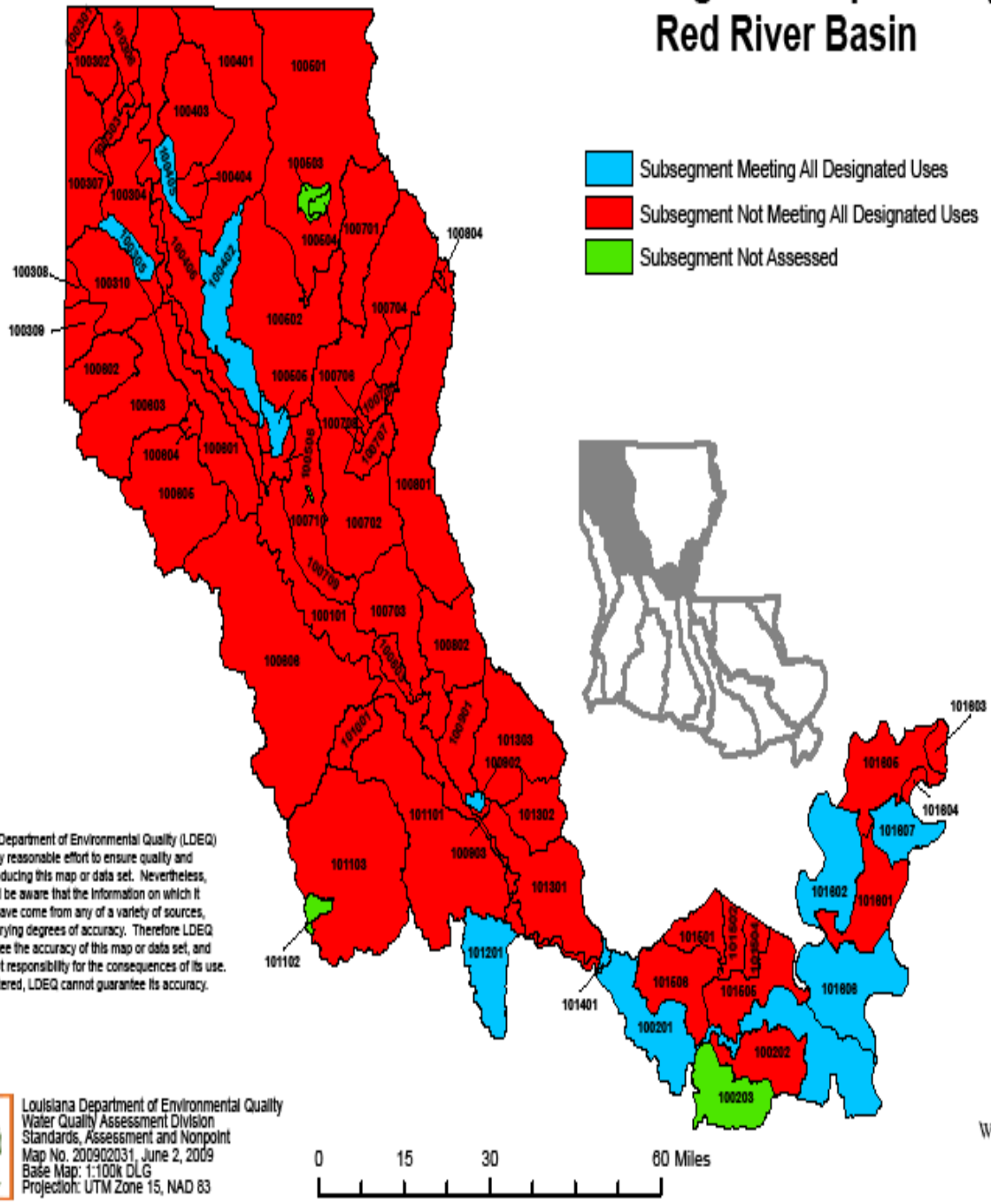


Louisiana Department of Environmental Quality
Water Quality Assessment Division
Standards, Assessment and Nonpoint
Map No. 200902030, June 2, 2009
Base Map: 1:100K DLG
Projection: UTM Zone 15, NAD 83

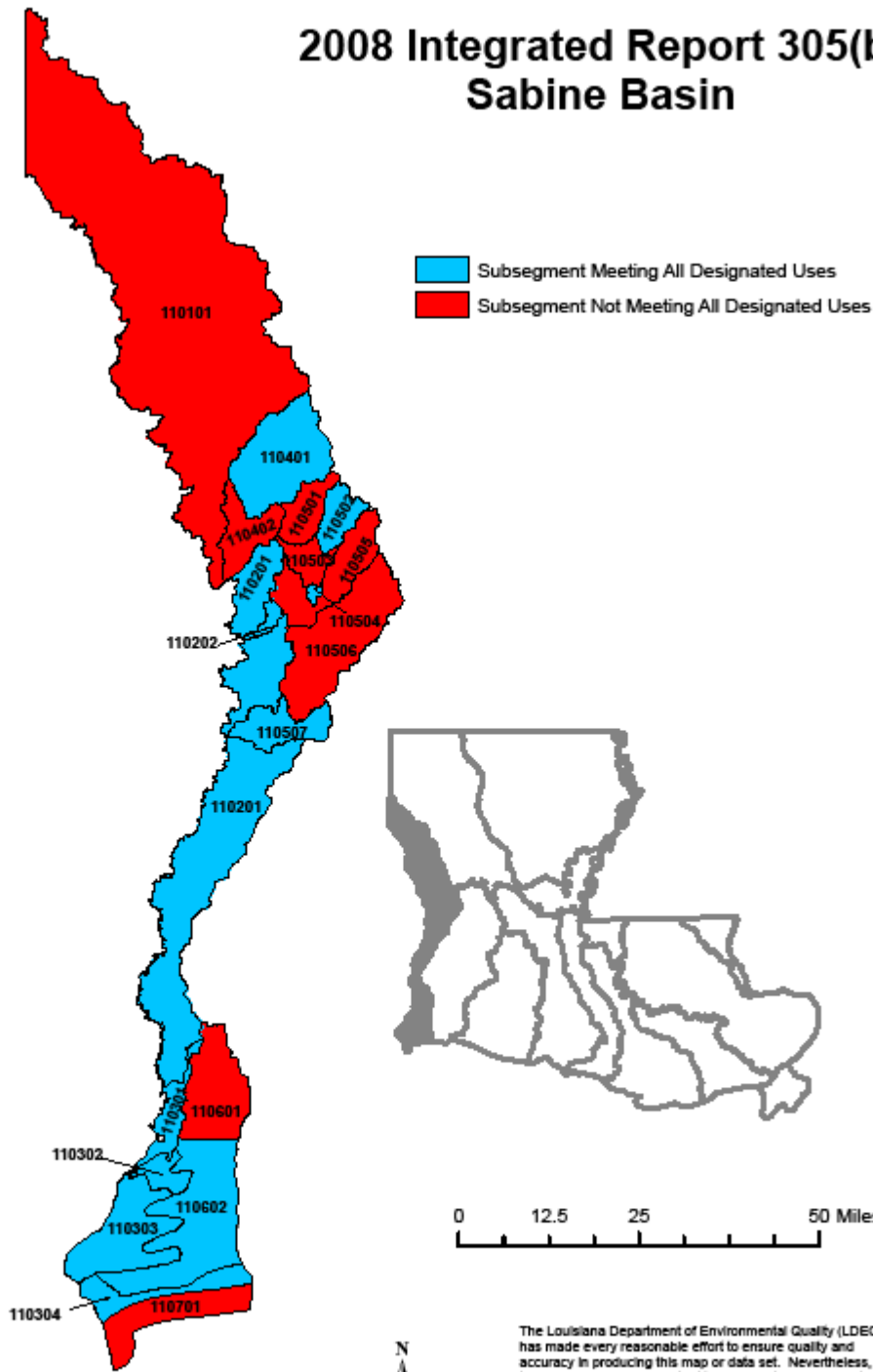
2008 Integrated Report 305(b) Pontchartrain Basin



2008 Integrated Report 305(b) Red River Basin



2008 Integrated Report 305(b) Sabine Basin

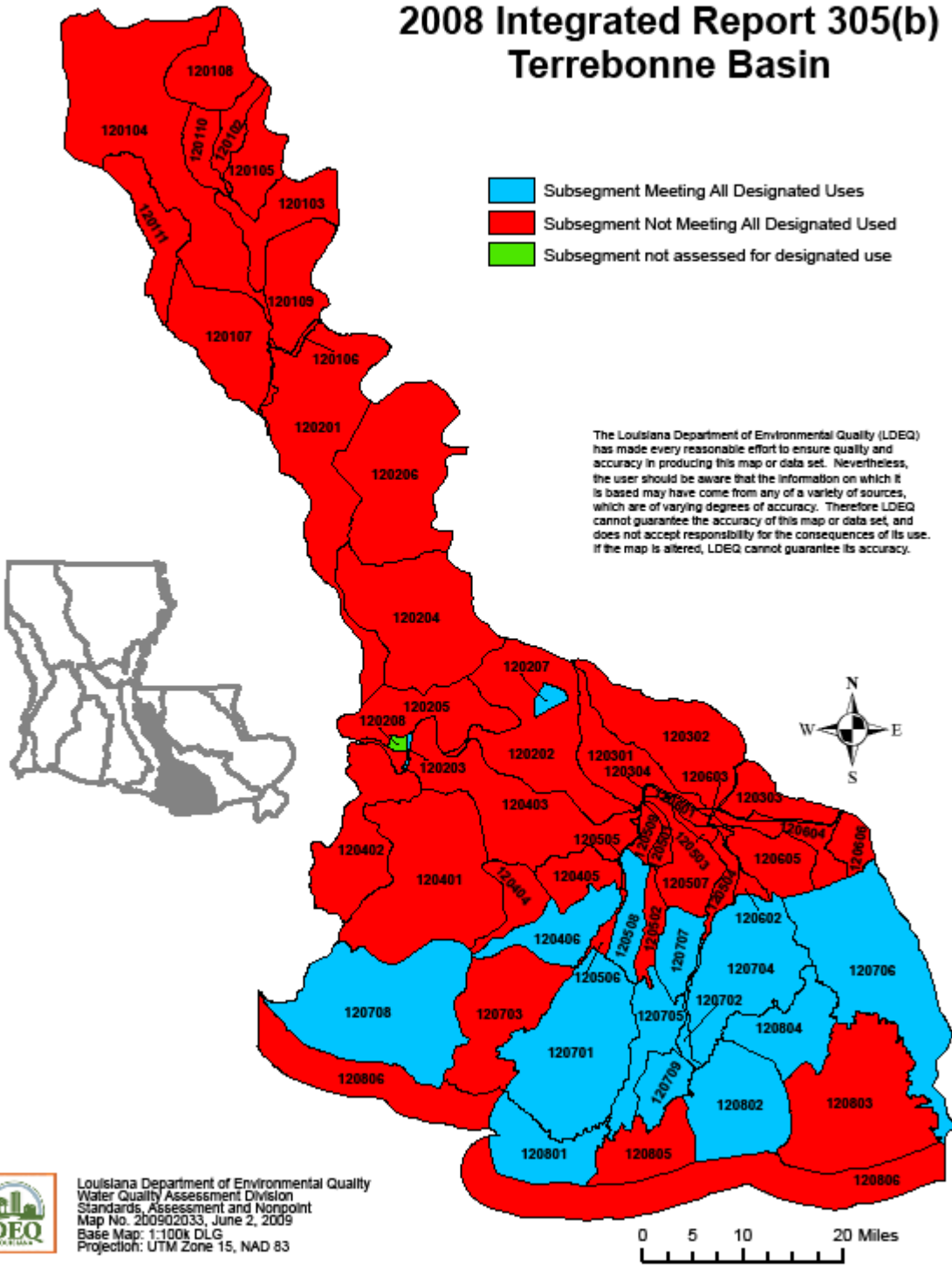


Louisiana Department of Environmental Quality
 Water Quality Assessment Division
 Standards, Assessment and Nonpoint
 Map No. 200902032, June 2, 2009
 Base Map: 1:100k DLG
 Projection: UTM Zone 15, NAD 83

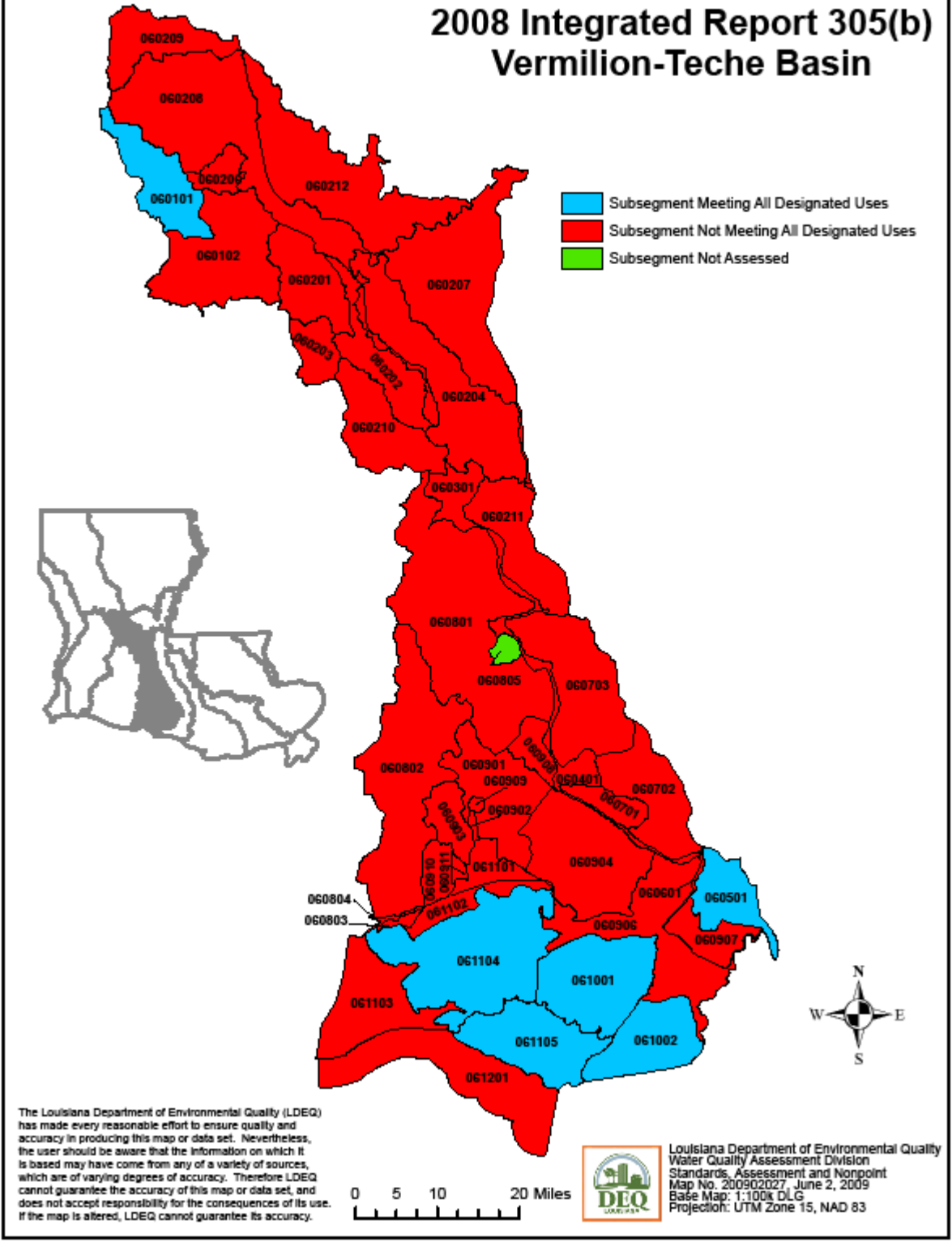


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2008 Integrated Report 305(b) Terrebonne Basin



2008 Integrated Report 305(b) Vermilion-Teche Basin



APPENDIX B – Cover Sheet, Budget, and Budget Justification

I. Sample Proposal Cover Sheet

Project Title: “Control of NPS Pollutants from Runoff”

Grant: FFY 2009 Section 319(h)

Proposed Budget: Federal Amount	\$150,000
<u>Match Amount</u>	<u>\$100,000</u> (40% of Total Amount)
Total Amount	\$250,000

Project Funding Period: 36 Months.

Project Area: A waterbody in an urbanizing area of west XYZ Parish including:

040801 – Upper Tchefuncte River (Headwaters to Bouge Falaya River)

No TMDLs have been completed for any of the above waterbody.

303(d) listed impairments: Mercury, Total Fecal Coliform, Dissolved Oxygen, Chloride, Dissolved Copper, Turbidity

Sponsoring Cooperator: West XYZ Parish Government
P.O. Box 1234
Somewhere, LA 70000

John Smith, Environmental Coordinator
987-654-3210 Office
987-654-0123 Fax
John.Smith@something.com
Federal Tax ID: 89-78623482

Date Submitted: February 20th, 2009

II. Sample Detailed Project Budget

Table 2. Budget by Category

Budget by Category	Federal	Match	Total
Personnel			
Faculty salary	\$0	\$0	\$0
Project employee	\$0	-	\$0
Graduate student	\$0	-	\$0
Fringe benefits (%)	\$0	\$0	\$0
Subtotal	\$0	\$0	\$0
Overhead	\$0	\$0	\$0
Supplies and sample analysis	\$0		\$0
Travel, publications, workshops	\$0	\$0	\$0
Total	\$0	\$0	\$0

III. Sample Budget Justification

Personnel:

Federal \$0

Match \$0

Personnel from the UL Lafayette participating in the project will devote time to the project costing \$0. These personnel will plan, direct and participate in all phases of the field works, computer modeling works, and demonstration efforts. Federal funds of \$0 are requested to provide project employee, graduate student, and summer salary for a faculty who will devote his/her time to the daily operation of collecting samples, laboratory processing and analysis of collected samples, data collection and compilation, computer model calibration, verification and simulation.

Supplies and sample analysis:

Federal \$0

Match \$0

Federal funds of \$0 are required to collect water samples in response to rainfall, cultural activities, or other circumstances that provide the opportunity to understand current conditions and effectiveness of BMPs.

Travel, publications, and workshops:

Federal \$0

Match \$0

Federal funds of \$0 and matching fund from UL Lafayette of \$0 are requested to provide travel to the study and to field days, and professional meetings and publications. Also, a one-day water quality modeling workshop involving farmers, landowners, students, scientists, government agencies, LDEQ personnel, and other stakeholders will be organized.

Overhead:

Federal \$0

Match \$0

The match provided by UL Lafayette totals \$0 to cover items like electricity, phone, insurance, etc. The federal funds requested total \$0.

APPENDIX C - Important Website Links

The 2006 Integrated Report (including 305(b) and 303(d) list) can be found at:
<http://www.deq.louisiana.gov/portal/tabid/2692/Default.aspx>

Information on TMDLs:
<http://www.deq.louisiana.gov/portal/tabid/130/Default.aspx>

Louisiana HUC Codes:
http://cfpub1.epa.gov/surf/locate/hucperstate_search.cfm?statepostal=LA

LDEQ Make-A-Map
<http://map.deq.state.la.us/>

319(h) Grant success stories:
<http://www.epa.gov/owow/nps/cwact.html>

The Louisiana Water Quality Management Plan – Volume 6 – Nonpoint Source Management Plan:
<http://nonpoint.deq.state.la.us/99manplan/DOCUMENT%20INDEX.htm>

QAPP Guidance (only needed for approved projects):
http://www.epa.gov/quality/qa_docs.html#EPArqts

APPENDIX D - Measures of Success

Federal, State, and other public and private partners have adopted core indicators to report nationally to measure attainment of five specific objectives.

The five objectives are: (1) Preserving and enhancing public health, (2) Preserving and enhancing ecosystem health, (3) Supporting uses designated by States and Tribes in their water quality standards, (4) Conserving or improving ambient conditions, and (5) Reducing or preventing pollutant loadings and other stressors.

For nonpoint source pollution control, these five objectives are characterized by the following measures and indicators; Water Quality Improvements from NPS Controls, NPS Pollutant Load Reduction, Public Education, Awareness, and Outreach, and Implementation of NPS controls. The approaches shown below have been successfully used as water quality and implementation measures of success, as well as measures of enhanced public education, awareness, and action. They are presented as examples – projects may identify and use other measures and indicators from each of the categories set forth. Well-designed projects should have several appropriate measures from each of the categories below. All measures of success should be quantifiable.

Measures & Indicators:

I. Water Quality Improvements from NPS Controls

- Number of river or stream miles, lake acres, and estuarine and coastal square miles that fully support all designated uses
- Number of river or stream miles, lake acres, and estuarine and coastal square miles that come into compliance with one or more designated uses, or with one or more numeric water quality criteria
- Demonstrable improvements in relevant surface water quality parameters
- Demonstrable improvements in biological or physical parameters
- Prevention of new impairments

II. NPS Pollutant Load Reduction

- Reductions in pollutant loading from NPS in defined priority watersheds
- Statewide reduction in NPS pollutant loadings in the case of NPS pollution which may result from activities conducted in the future, prevention or minimization of new loading by reductions from existing sources

- Reductions in frequencies, or prevention of increases of peak flows in developing or developed areas

III. Public Education, Awareness, and Outreach

- Participation rates in education programs specifically directed to solving particular NPS pollution problems
- Statistically based survey of public awareness knowledge, and action to measure changes in attitudes and action over time
- Participation rates in various NPS activities such as citizen monitoring and watershed restoration activities
- Participation rates in various public awareness education efforts

IV. Implementation of NPS controls

- Number of measures implemented in watersheds with impairments
- Percentage of management measures needed in watershed with impaired waterbodies to show an improvement in water quality
- Number of approved or certified plans written to address specific pollutants of concern, e.g. sediment control, nutrient management, storm water
- Statistically based survey of implementation rates of approved and suggested BMPs and their perceived effectiveness by the user.

APPENDIX E - Geographical Information Systems (GIS) Data Requirements

Acceptable Digital Formats

There is a definite need to ensure basic consistency concerning the data entered and used in GIS. GIS data developed for EPA and LDEQ must be easily transferable to the LDEQ GIS database, to EPA, and to other stakeholders. Therefore, all Section 319 funded projects that contain a GIS component shall adhere to EPA and LDEQ required standards. The following statement will be included in such projects, and resultant products shall conform to the statement:

“All geospatial data created for LDEQ will be consistent with Federal Geographic Data Committee (FGDC) endorsed standards. Digital coverages/products will be compatible with ArcInfo software, and preferably be delivered as ArcInfo export coverages or ArcView shapefiles, with associated HTML containing metadata.”

The following web sites provide information to assist the sponsoring cooperator in meeting the above requirements:

1. Federal Geographic Data Committee Standards
www.fgdc.gov/publications/publications.html
2. National Map Accuracy Standards
<http://rockyweb.cr.usgs.gov/nmpstds.html>
3. Tools Available for Metadata Documentation: SMSS Commercial Project
www.enabletech.com/html/smms.htm
4. Tools Available for Metadata Documentation: ArcView Metadata Collector
www.csc.noaa.gov/metadata/text/download.html

Acceptable Map Projections

Various map projections are acceptable for various purposes. Projections must be in North American Datum (NAD) 83. Additionally, a map or digital set in a geographical reference system (available as a projection option in ArcInfo and ArcView) is preferred.

1. Geographical Reference System. Units shall be in decimal degrees with additional fields containing degrees, minutes, seconds as following: DD MM SS.SS
2. Universal Transverse Mercator. Units shall be in meters and in Zone 15. Activities within Zone 16 shall be re-projected into Zone 15. Additional fields shall include the locations projected to decimal degrees.
3. Albers Conic Equal Area. Units shall be in feet. 1st standard parallel 29° 32' 30.00"; 2nd standard parallel 32° 18' 30.00"; Central Meridian -91° 34' 00.00"; Latitude of projection origin 30° 55' 30.00"; Clark Ellipsoid 1866 for NAD27, WGS84 for NAD83.

Acceptable Locational Accuracy

Locational information acquired using Global Positioning System (GPS) equipment shall meet Map Accuracy Standards of 3 meters or less.