



Disbursement of Federal Funds Pursuant to the Federal Water Pollution Control Act

2007 Update

(per Senate Bill 150, 1st Session of the 49th Legislature, 2003)



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Introduction

During the 1993 reorganization of Oklahoma's environmental agencies, the Office of the Secretary of the Environment was established by statute to serve, among other things, as the primary recipient of Federal Water Pollution Control Act ("Clean Water Act") grant funds in Oklahoma. The role of recipient of Clean Water Act funding provides the Secretary of the Environment with a unique opportunity to ensure that state agencies' water quality management activities are well-coordinated and of high quality.

Ten years after passage of the Environmental Quality Act of 1993, the Legislature sought minor changes to this oversight responsibility through passage of Senate Bill 150 (2003 Session). In addition to seeking increased coordination through consultation with the Secretary of Agriculture, the Legislature added the requirement of an annual report to heighten accountability and increase understanding of how Clean Water Act funds are disbursed throughout the state.

Funding is delivered to the Secretary of the Environment from the U.S. Environmental Protection Agency ("EPA") through five distinct grant programs that are defined by the section of the Clean Water Act in which each is established: Section 104(b)(3), Section 104(b)(3) Wetlands, Section 106, Section 319, and Section 604(b). Each grant program has its own priorities, guidance, and funding cycles. This report summarizes the Clean Water Act grant program funding received by the Secretary of the Environment during the 2007 Federal fiscal year of October 1, 2006 – September 30, 2007 (see Table 1 for overview) as well as the expenditures for the same period (see Table 2 for overview). The 2007 Legislative Session marked the five-year anniversary of the passage of Senate Bill 150. To mark this anniversary, a five-year summary of Clean Water Act funding by agency is shown in Table 3.

Table 1. Clean Water Act Funding Awarded to Subrecipients
(Federal Dollars for Federal Fiscal Year 2007)

FFY 2007 Clean Water Act Funding

	Association of Central Oklahoma Governments	Indian Nations Council of Governments	Oklahoma Conservation Commission	Oklahoma Department of Agriculture, Food, and Forestry	Oklahoma Department of Environmental Quality	Oklahoma Water Resources Board	Office of the Secretary of the Environment
FY 07 104(b)(3) Wetlands Protection*			\$ 198,243			\$ 112,553	
FY 07 104(b)(3)					\$ 150,000		
FY 05/06/07 106 Program**					\$ 1,351,113	\$ 141,521	
FY 08 106 Program**				\$ 31,250	\$ 760,459	\$ 182,128	\$ 136,575
FY 07 319(h) NPS Program**			\$ 2,958,900				\$ 117,000
FY 07 604(b) Water Quality Management Program*	\$ 20,000	\$ 20,000				\$ 60,000	
TOTAL FUNDING PER AGENCY	\$ 20,000	\$ 20,000	\$ 3,157,143	\$ 31,250	\$ 2,261,572	\$ 496,202	\$ 253,575

* Funds were awarded prior to September 30, 2007. The project, however, cannot begin until October 1, 2007.

**Projects funded with several allocations. Funding reflects current year award only.

Section §104(b)(3) Program

Section 104(b)(3) authorizes funding to State agencies, Tribes, other public or nonprofit private agencies, institutions, organizations and individuals to conduct and promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys and studies relating to causes, effects, extent, prevention, reduction and elimination of pollution. Funding is available annually through both EPA Headquarters and EPA Region 6 and usually requires a 5% match. Funding for this program has been reduced at the Congressional level. However, at times, EPA may offer provisional funding to states or regions for a specific purpose.

FY 06 104(b)(3) Multi-media State and Tribal Assistance Grant (STAG)

Project Period: March 31, 2007 – January 31, 2010

Project 1 – PCS Modernization Analysis and Support – ODEQ \$150,000

The goals of this project are to:

- Analyze and document the existing process for batch entry of enforcement information,
- Include acceptance tests as an essential component of the process documentation,
- Provide ODEQ management with a realistic strategy for implementing entry of minor facility data,
- Analyze and document existing process related to legacy PCS data, including NPDES permitting, compliance, and enforcement,
- Utilize existing, off-the-shelf products to create and maintain our analysis, documentation and roadmaps, and
- Provide ODEQ staff with a web-based tool that will support both the full use of ICIS-NPDES and facilitate the integration of permitting, compliance, and enforcement program activities.

Section §104(b)(3) Wetlands Program

Section 104(b)(3) Wetlands authorizes funding for the development and implementation of activities to protect state wetlands. The goal of the program is to build the capacity of all levels of government to develop and implement effective, comprehensive programs for wetland protection and management. This grant program is competitive on a regional basis and requires a 25% match. A funding level of approximately \$1.2 million is available per year at the regional level. The funding period for this program is approximately three (3) years.

FY 07 §104(b)(3) Wetlands Protection Workplan

Project Period: October 1, 2007 – September 30, 2010

Project 1 – An HGM Approach for Assessing Wetland Functions in Central Oklahoma: Hydrogeomorphic Classification and Functional Attributes – OCC \$198,243

The goal of this project is to begin HGM characterization of wetlands in support of a functional approach to wetland assessment in Oklahoma and assist with further development of Oklahoma's wetland monitoring program.

Project 2 – Initiating a Vegetated Wetland throughout the Littoral Zone of Atoka Lake – OWRB..... \$112,553

The goal of this project is to work with the City of Oklahoma City and other partners to increase wetlands in the Atoka Lake Watershed by 181 acres thereby reducing the re-suspension of sediment within the lake. The wetland restoration will be accomplished by planting emergent vegetation in the large shallow mud flats of Atoka Lake.

Section §106 Program

Section 106 of the Clean Water Act authorizes assistance to the State in administering programs for the prevention, reduction, and elimination of water pollution including programs for the development and implementation of groundwater protection strategies. The state receives approximately \$2,100,000 for surface water and groundwater activities. The state is required to set forth a minimum level of effort towards the §106 program of \$257,655. All base surface and groundwater activities are included in the FOCUS document, which is part of DEQ's Performance Partnership Grant. By including the activities in the FOCUS document, EPA allows DEQ flexibility and the ability to cross fund programs. Activities and projects under this grant program are reviewed and awarded on an item-by-item basis. The workplan includes new projects as well as projects not completed within the previous grant cycle. Beginning 2005 EPA provided annual funding under this program for the states to use to implement elements of the Monitoring Strategy. These projects are tracked separately. The program period for the §106 grants is three years.

FY 05/06/07 §106 Program

Project Period: July 1, 2004 – June 30, 2007

Initial funding for this project was awarded in July 2004. Subsequent awards were provided in 2005, 2006 and 2007. Dollar amounts listed below are for a three-year period.

FY 05/06/07 Core Activities - ODEQ..... \$5,673,675

- Administration – The agency will monitor its finance, personnel and data processing operations. Surveys will evaluate customer satisfaction with major program activities.
- Enforcement – The agency will ensure compliance with the law through an enforcement program that will include issuing orders and assessing fines.
- Permitting – Permitting, along with rulemaking, provides the basic tool for controlling pollutant discharges. Particular emphasis will be placed on the issuance of high quality permits in a timely manner.
- Planning – The agency will implement a planning process called "FOCUS" to integrate budget, planning, personnel evaluation and reporting based on measuring for results.
- Sludge –The agency will review and respond to all sludge management plans within 60 days of receipt of all necessary information to ensure that construction is performed.
- TMDL – The agency will develop and/or review TMDL/WLA models in accordance with schedules established in the 1998 303(d) list and submit these models to EPA for approval
- Groundwater Monitoring – The agency will continue to conduct both environmental and programmatic monitoring to determine the effectiveness of its programs

FY 05/06/07 \$106 Workplan

Project Period: July 1, 2004 – June 30, 2007

Initial funding for this project was awarded in July 2004. Subsequent awards were provided in 2005, 2006 and 2007. Dollar amounts listed below are for a three-year period.

Project 1 – Management and Coordination - OSE \$546,947

This project provides for maintenance of federal responsibility/accountability of funds to support all Clean Water Act programs. The Governor has initiated, and will continue to initiate, activities for the protection of water quality through the Office of the Secretary of the Environment. This project provides staff assistance to facilitate progress in these activities.

Project 2 - Statistical Analysis - ODEQ \$1,943

The purpose of this project is to 1) compile information on water quality collected by various divisions of ODEQ over the years into a single database, 2) determine if the quality of the data are sufficient to perform statistical analyses of the information, 3) perform statistical analyses on the data, 4) do 305(b) reports and 5) make information available to the public.

Project 3 - Water Quality, Flow, and Sediment Monitoring Plan for Tar Creek Basin – ODEQ \$119,835

This project will 1) initiate flow weighted stream/mine water monitoring at established wadable sites in Tar Creek basin; 2) monitor high flow at six sites in the watershed area; 3) calculate metals loading in Tar Creek, including sediment load, and analysis of bed material and estimate the impact immediately below its confluence with the Neosho River due to dilution (and other) factors; 4) verify the quality of water flowing to Grand Lake; and 5) evaluate damage to biota at three individual monitoring sites (above, within and below mine discharge).

Project 4 – Surface-Water Quality in the Grand-Neosho River Basin, Northeastern Oklahoma – ODEQ..... \$145,074

The objectives of this project are to (1) analyze high-flow water samples from Tar Creek, the Spring River, and the Neosho River for general water properties, trace elements, and major ions; (2) utilize continuous stream flow data and water quality data from Tar Creek, Neosho River, and Spring River to estimate water and sediment quality entering Grand Lake; and (3) quantify the sediment movement and composition in Tar Creek, the Neosho River, and the Spring River under high flow conditions. The project will also enhance the current stream-monitoring network in the Picher-Miami-Commerce area. Data collected will provide information to aid Federal, State, Tribal and local officials in the remediation of the area.

Project 5 - TMDL Development for the Washita River Below Foss Reservoir Phase I (part 2) – ODEQ \$213,448

The purpose of this project is to produce a TMDL for the targeted watershed and to support Watershed Restoration Action Strategy development.

Project 6 - TMDL Monitoring – Washita River Watershed above Foss Dam – ODEQ
..... \$105,733

The purpose of this project is to collect water quality data to verify waterbody impairment and to support TMDL development for all pollutants of concern. The data collection will be designed to assist in identifying the source(s) and extent of impairment to the waterbodies.

Project 7 - Blue River Watershed TMDL Phase I Water Quality Monitoring – ODEQ
..... \$17,862

The purpose of this project is to collect water quality data to verify waterbody impairment and to support TMDLs for nutrients, suspended solids and noxious aquatic plants. The data collection will be designed to assist in identifying the source(s) and extent of impairment to the waterbodies

Project 8 – Hydrodynamic and Water Quality Modeling for – Wister Lake – ODEQ
..... \$263,341

The objective of this project is to develop a linked watershed and 3-dimensional hydrodynamic, sediment transport and water quality model of Lake Wister to allow ODEQ to estimate potential load reductions to Lake Wister in order to restore the lake to its designated beneficial uses.

Project 9 - Illinois River Watershed TMDL Phase I Water Quality Monitoring for Metals & Pesticides – ODEQ \$42,345

The objective of this project is to collect water quality data to verify waterbody impairment and to support a TMDL for metals and pesticides. The data collection will be designed to assist in identifying the source(s) and extent of impairment to the waterbodies.

Project 10 - TMDL Monitoring – Atoka Lake Watershed - ODEQ \$56,476

The objective of this project is to collect water quality data to verify waterbody impairment and to support TMDL development for all pollutants of concern. The data collection will be designed to assist in identifying the source(s) and extent of impairment to the waterbodies.

Project 11 - North Canadian River Pathogens TMDL - ODEQ \$14,386

The objective of this project is to collect monitoring data and develop a Total Maximum Daily Load model for pathogens in the North Canadian River. The study area encompasses the North Canadian River in the Oklahoma City metropolitan area. The Association of Central Oklahoma Governments, with guidance from the ODEQ, will conduct project activities.

Project 12 - Arkansas River Metals TMDL - ODEQ..... \$40,517

The objective of this project is to collect existing data from recent studies by INCOG, the City of Tulsa and others and develop a TMDL model for the Arkansas River. The TMDL will include all Arkansas River segments between Sand Springs and Broken Arrow, Oklahoma. All eleven metals currently listed in the Oklahoma Water Quality Standards will be modeled. Mixing zone models will be developed for metals of concern that are identified in the TMDL modeling process. The Indian Nations Council of Governments will conduct project activities with guidance from the ODEQ.

Project 13 -Bacteria TMDL Development Using GIS Toolbox - ODEQ.....\$115,955

This project is intended to develop bacteria TMDLs using the tools being developed by Parsons Water & Infrastructure, Inc. in cooperation with EPA Region 6 and ODEQ. The "toolbox" comprises a load duration curve tool and a GIS spreadsheet tool. The load duration curve tool estimates relative point and nonpoint source loads indication bacteria based on instream flow and concentration data. The GIS spreadsheet tool predicts nonpoint and point source loading of indicator data.

Project 14 - TMDL Monitoring on Priority 1 and Priority 2 Waters Listed on the 1998 303(d) List - ODEQ \$25,340

The objective of the proposed sampling initiative is to 1) establish if listed waters are currently meeting their assigned beneficial uses, 2) gather historical data (if available) to be used in Phase 1 of the TMDL process and 3) support TMDL development. The Oklahoma Water Resources Board will conduct project activities with guidance from the ODEQ.

Project 15 - Basin 6 & 7 TMDL Water Quality Monitoring - ODEQ..... \$13,935

The objective of the proposed sampling initiative is to 1) determine if listed waters are currently meeting their assigned beneficial uses, 2) gather historical data (if available) to be used in Phase 1 of the TMDL process and 3) support TMDL development. The Oklahoma Water Resources Board will conduct project activities with guidance from the ODEQ.

Project 16 - Comparison Study of Water Quality from PWS Wells and other wells in Central Oklahoma Aquifer - ODEQ..... \$36,265

DEQ will use public water supply ("PWS") wells to characterize water quality in major aquifers. Specifically this study will compare the results of chemical analysis of PWS wells with other data from the Central Oklahoma Aquifer to evaluate the "equivalence" of information. USGS will reactivate portions of its former sampling program to establish if water quality of waters from non-PWS wells is comparable to water from PWS wells in the Central Oklahoma Aquifer. The United States Geological Survey will conduct project activities with guidance from the ODEQ.

Project 17 - Review of Monitoring and Assessment Data to Support Development of TMDL for Lake Tenkiller and Illinois River Watershed - ODEQ..... \$70,117

In conducting a Total Maximum Daily Load (TMDL) study for the Tenkiller Ferry Reservoir and its attendant watershed, the ODEQ Water Quality Division will use the Soil & Water Assessment Tool (SWAT) computer model simulation by Oklahoma State University to estimate a maximum allowable nutrient loading. Oklahoma State University will conduct project activities with guidance from the ODEQ.

Project 18 - Ground Water Monitoring FY03/04 – Continuation of Project 2 – ODEQ
..... \$153,111

This project will continue the ambient groundwater monitoring program administered through the ODEQ. The primary objective of this project is to assess the quality of groundwater. In the long term, data will be analyzed for trends to identify areas where measures should be taken to preserve the beneficial uses of the groundwater. These objectives will be met by sampling a subset of Public Water Supply wells to determine current constituent levels.

Project 19 - Statewide Groundwater Quality Analysis Using GIS FY03/04 – ODEQ
..... \$4,809

State agencies have been gathering data on groundwater quality for many years. ODEQ wants to use this information to develop maps showing the quality of water in the major aquifers in Oklahoma. Using new GIS software and more powerful hardware, ODEQ will be able to create layers over images of aquifers with isopleths of water quality data. These will help citizens of Oklahoma ascertain groundwater quality for every major aquifer area for many parameters.

Project 20 - Proposed Stream Gaging Program (Year 5 and 6) - ODEQ..... \$173,900

The monitoring sites listed in this proposal for funding are all located in Unified Watershed Assessment Category I watersheds. These monitoring sites are critical to TMDL development and are also essential in tracking the progress of TMDL implementation procedures. Flow data will be used to assess the total pollutant loading, and the water quality data will be used to determine the degree of impairment to the water's beneficial use(s). Where appropriate, screening and review criteria developed for the 303(d) program will be utilized to assess impairment. The United States Geological Survey will conduct project activities with guidance from the ODEQ.

Project 21 – TMDL Guide Development..... \$2,665

This project seeks to impact all TMDL stakeholders statewide through the distribution of TMDL Guidance information in the form of a guidance document, pamphlets, and public meetings.

Project 22 - Licensed Managed Feeding Operations Monitoring Well Sampling for 2004 – ODAFF..... \$387,500

The Oklahoma Concentrated Animal Feeding Operations Act (2 O.S. § 9-205.4(F)(3)) and its implementing regulations (OAC 35:17-3-11(e)(6) (H)) both require that the Oklahoma Department of Agriculture, Food, and Forestry (ODAFF) annually sample

monitoring wells at swine Licensed Managed Feeding Operations (LMFOs). This project will allow for the collection of groundwater samples at monitoring wells of LMFOs and a review of the analyzed data for indication of possible pollution. Determining the sources of pollutants in groundwater will aid ODAFF in assessing whether LMFOs negatively affect nearby groundwater quality and what actions are necessary to address such pollution.

Project 23 – Stream Gaging Program Year 7 – ODEQ..... \$97,900

The monitoring sites listed in this project are all located in Unified Watershed Assessment Category I watersheds. These monitoring sites are critical to TMDL development and are also essential in the tracking the progress of TMDL implementation procedures. Flow data will be used to assess the total pollutant loading and the water quality data will be used to determine the degree of impairment to the water's beneficial use(s). Where appropriate screening and review criteria developed for the 303(d) program will be utilized to assess impairment.

Project 24 – Bacteria TMDL Development Using GIS Toolbox for Selected Watersheds – ODEQ..... \$372,100

This project is intended to develop bacteria TMDL's using the tools being developed by Parsons Water & Infrastructure, Inc. in cooperation with EPA Region 6 and ODEQ. The "toolbox" comprises a load duration curve tool and a GIS spreadsheet tool. The load duration curve tool estimates relative point and nonpoint source loads of indicator bacteria based on instream flow and concentration data. The GIS spreadsheet tool predicts nonpoint and point source loading of indicator bacteria.

The toolbox is intended to facilitate the rapid development of TMDLs in any watershed in the state. The results of applying the toolbox to a "pilot" watershed will help shape the process used to identify the best candidates for application of the toolbox in this project. Development of a list of candidate watersheds is one of the tasks under the project.

FY 05/06/07 §106 Monitoring Workplan

Project Period: July 1, 2004 – June 30, 2007

Initial funding for this project was awarded in July 2004. Subsequent awards were provided in 2005, 2006 and 2007. Dollar amounts listed below are for a three-year period.

Project 1 – Coordination of Oklahoma's State Monitoring Strategy – OSE... \$8,447

This project provides for the coordination and continued development/refinement of Oklahoma's Monitoring Programs. OSE will work with State environmental agencies to update the Monitoring Strategy document. The State will review the existing programs to determine if changes can be made which allow for additional monitoring program components.

Project 2 – Development, testing and drafting of Nutrient Limited Watershed (NLW) impairment Study protocols to allow for listing of lakes for nutrients as Category 5 in the Oklahoma Integrated Report – OWRB..... \$24,409

The project will define acceptable data standards for NLW studies and a process to determine whether impairment is due to cultural eutrophication. Potential outcomes of this proposal are refinement of OWRB rules relating the NLW and delineating the fate of NLW listing once an impairment decision is made.

Project 3 – Fish Tissue Monitoring for Heavy Metals in the Tri-State Mining Area – ODEQ \$100,000

This project will allow DEQ to make recommendations regarding safe consumption rates and preparation methods for fish in waters affected by runoff from the Tri-State Mining area. A determination will also be made as to the extent of metals contamination of fish downstream through Grand Lake. The educational materials and outreach will inform the public and tribes whose cultural practices put them most at risk from consuming fish from that area. As a result of these activities, the public will be aware of health risks associated with the consumption of fish caught by tracking and documenting media calls, citizen requests for information, web page hits, and the distribution of educational materials.

Project 4 – Development of a Probability Survey Design for Lakes and Reservoirs – OWRB..... \$86,409

The goal of this project is to establish methodology for lakes probabilistic sampling in Oklahoma to enhance current statewide 305(b) reporting. The project will also:

- Demonstrate the efficacy of probabilistic lakes assessment in Oklahoma
- Produce a statistically based trophic state assessment in Oklahoma
- Provide a probabilistic assessment of risk to Oklahoman's by Harmful Algal Blooms (HAB)

Project 5 – Oklahoma's National Lakes Survey – OWRB..... \$129,639

The goal of this survey is to address two key questions regarding the quality of the Nation's lakes, ponds, and reservoirs:

1. What percent of the Nation's lakes are in good, fair and poor condition for key indicators of ecological health and human activities?
2. What is the relative importance of key stressors such as nutrients and pathogens?

FY 08/09 §106 Program

Project Period: July 1, 2007 – June 30, 2009

Initial funding for this project was awarded in July 2007. Subsequent awards will be provided in 2008 and 2009. Dollar amounts listed below are for a two-year period.

FY 08/09 Core Activities - ODEQ \$580,924

- Administration – The agency will monitor its finance, personnel and data processing operations. Surveys will evaluate customer satisfaction with major program activities.
- Enforcement – The agency will ensure compliance with the law through an enforcement program that will include issuing orders and assessing fines.
- Permitting – Permitting, along with rulemaking, provides the basic tool for controlling pollutant discharges. Particular emphasis will be placed on the issuance of high quality permits in a timely manner.
- Planning – The agency will implement a planning process called “FOCUS” to integrate budget, planning, personnel evaluation and reporting based on measuring for results.
- Sludge –The agency will review and respond to all sludge management plans within 60 days of receipt of all necessary information to ensure that construction is performed.
- TMDL – The agency will develop and/or review TMDL/WLA models in accordance with schedules established in the 1998 303(d) list and submit these models to EPA for approval
- Groundwater Monitoring – The agency will continue to conduct both environmental and programmatic monitoring to determine the effectiveness of its programs

FY 08/09 §106 Workplan

Project Period: July 1, 2007 – June 30, 2009

Initial funding for this project was awarded in July 2007. Subsequent awards will be provided in 2008 and 2009. Dollar amounts listed below are for a two-year period.

Project 1 – Management and Coordination - OSE \$136,575

This project provides for maintenance of federal responsibility/accountability of funds to support all Clean Water Act programs. The Governor has initiated, and will continue to initiate, activities for the protection of water quality through the Office of the Secretary of the Environment. This project provides staff assistance to facilitate progress in these activities.

Project 2 – Load Reduction Goal Determination – Wister Lake (Continuation) – ODEQ \$24,975

The goal of this project is to establish a load reduction goal for phosphorus and turbidity according to the Oklahoma Water Quality Standards, project deliverables will be utilized to support the Oklahoma Conservation Commission’s efforts to develop a watershed-based plan for the Wister Lake Watershed.

Project 3 – Lake Tenkiller and Illinois River Project Expansion (Continuation) – ODEQ \$127,206

The FY 05/06/07 project included the development of a SWAT model. The Expansion of the project will provide an update of the SWAT model to include groundwater nutrient contributions. Also, modification of the SWAT code will allow for the analysis of instream phosphorus concentrations.

Project 4 – Turbidity TMDL Tool: Expansion of Bacteria TMDL Toolbox to Facilitate Turbidity TMDL Development – ODEQ \$45,000

Through this project the contractor will expand the capabilities of the bacteria TMDL toolbox to address turbidity in streams using the load duration curve generation tool and a GIS-based source identification tool.

Project 5 – Turbidity TMDL Development – ODEQ \$100,000

The primary objective of this project is to evaluate stream segments which are impaired for turbidity TMDL development using the expanded toolbox.

Project 6 – Turbidity Monitoring for TMDL Development – ODEQ \$100,000

The primary objective of this project is to collect concurrent total suspended solids and turbidity data on stream segments so that turbidity TMDLs can be developed for impaired stream segments.

Project 7 – Identification of Potential Well Rehabilitation Options for Arsenic-Rule compliance in Small Water Supply Systems in Oklahoma – ODEQ \$200,000

This project will be a collaborative effort between ODEQ, the United States Geological Survey and the Ground Water Protection Council to evaluate PWS systems facing compliance issues associated with arsenic and identify possible "geologic solutions."

Project 8 – Stream Gaging Program Year 8 - ODEQ \$103,300

The monitoring sites listed in this project are all located in Unified Watershed Assessment Category I watersheds. These monitoring sites are critical to TMDL development and are also essential in tracking the progress of TMDL implementation procedures. Flow data will be used to assess the total pollutant loading and the water quality data will be used to determine the degree of impairment to the water's beneficial use(s). Where appropriate, screening and review criteria will be developed for the 303(d) program will be utilized to assess impairment.

Project 9 – Monitoring and Groundwater Base – ODEQ \$421,440

- Sample Fish Communities
- Maintain agency-wide GIS database and web browser
- Maintain Oklahoma water quality data in computerized information system
- Monitor industrial and municipal wastewater Discharge Monitoring Report (DMR)
- Initiate enforcement actions
- Participate with EPA in DMR Quality Assurance/Quality Control Program

- Water Quality Division oversight
- Customer Service Division oversight
- Travel to monitoring and groundwater related conferences
- Monitoring and computer equipment to support monitoring

Project 10 – Licensed Managed Feeding Operations Monitoring Well Sampling (Continuation) – ODAFF/OWRB..... \$133,535

The Oklahoma Concentrated Animal Feeding Operations Act (2 O.S. § 9-205.4(F)(3)) and its implementing regulations (OAC 35:17-3-11(e)(6) (H)) both require that the Oklahoma Department of Agriculture, Food, and Forestry (ODAFF) annually sample monitoring wells at swine Licensed Managed Feeding Operations (LMFOs). This project will allow for the collection of groundwater samples at monitoring wells of LMFOs and a review of the analyzed data for indication of possible pollution. Determining the sources of pollutants in groundwater will aid ODAFF in assessing whether LMFOs negatively affect nearby groundwater quality and what actions are necessary to address such pollution.

FY 08/09 \$106 Monitoring Workplan

Project Period: July 1, 2007 – June 30, 2009

Initial funding for this project was awarded in July 2007. Subsequent awards will be provided in 2008 and 2009. Dollar amounts listed below are for a two-year period.

Project 1 – Coordination of Oklahoma’s State Monitoring Strategy – OSE... \$178,347

This project provides for the coordination and continued development/refinement of Oklahoma’s Monitoring Programs. OSE will work with State environmental agencies to update and implement the Monitoring Strategy document. The State will review the existing programs to determine if changes can be made which allow for additional monitoring program components. \$169,900 will be passed-through to an environmental agency for the implementation of the state’s monitoring strategy.

Project 2 – Development, testing and drafting of Nutrient Limited Watershed (NLW) Impairment Study protocols to allow for listing of lakes for nutrients as Category 5 in the Oklahoma Integrated Report (Continuation) – OWRB..... \$39,483

The project will define acceptable data standards for NLW studies and a process to determine whether impairment is due to cultural eutrophication. Potential outcomes of this proposal are refinement of OWRB rules relating the NLW and delineating the fate of NLW listing once an impairment decision is made.

Project 3 – Development of a Probability Survey Design for Lakes and Reservoirs (Continuation) – OWRB..... \$61,241

The goal of this project is to establish methodology for lakes probabilistic sampling in Oklahoma to enhance current statewide 305(b) reporting. The project will also:

- Demonstrate the efficacy of probabilistic lakes assessment in Oklahoma
- Produce a statistically based trophic state assessment in Oklahoma

- Provide a probabilistic assessment of risk to Oklahoman's by HAB

Project 4 – Oklahoma's National Lakes Survey (Continuation) – OWRB..... \$119,106

The goal of this survey is to address two key questions regarding the quality of the Nation's lakes, ponds, and reservoirs:

1. What percent of the Nation's lakes are in good, fair and poor condition for key indicators of ecological health and human activities?
2. What is the relative importance of key stressors such as nutrients and pathogens?

Section § 319(h) Nonpoint Source Program

Section 319(h) of the CWA authorizes funding to designated State agencies to implement the State's NPS management program to control nonpoint source pollution. The state receives approximately \$3,000,000 annually and is required to provide a 40% match. The funds within this grant program are tied to priorities listed within Oklahoma's Nonpoint Source Management Plan and directed by the Nonpoint Source Working Group. The Oklahoma Conservation Commission serves as the technical lead agency for the program. The funding period for this program is five (5) years.

FY 07/08 319(h) Program

Project Period: September 1, 2007 to July 31, 2012

Initial funding for this project was awarded in September 2007. Subsequent awards will be provided in 2008. Dollar amounts listed below are for a two-year period.

*Project 1 – Coordination and Management of Oklahoma's NPS Program – OSE
..... \$117,000*

Provide support for coordination and management of the 319 (h) grant program and related activities, including departmental and technical review, coordination of interagency technical review, and management and maintenance of Oklahoma's Nonpoint Source Grants Reporting and Tracking System.

*Project 2 – Oklahoma Conservation Implementation of the NPS Management Program
October 2007 – June 2008 – OCC \$918,250*

The purpose of this project is to provide staff support and funding to implement Oklahoma's Comprehensive Nonpoint Source Pollution Program, including planning, assessment, education, and implementation activities between October 1, 2007 and June 30, 2008.

Project 3 – Rotating Basin Monitoring Program Year 8 – OCC \$815,802

The purpose of this project is to implement year eight of the Rotating Basin Monitoring Program. Implementation of this program will allow for the assessment of the beneficial use support status of streams in the specified watersheds, the collection of information about nonpoint sources of pollution, and the evaluation of success of implementation and education efforts.

Project 4 – Statewide Blue Thumb Program – OCC \$319,412

The goal of the Statewide Blue Thumb program includes promoting the Blue Thumb Program throughout Oklahoma, particularly through conservation districts; organizing and supporting satellite programs; water quality education activities; volunteer water quality monitoring; and groundwater education/screening programs.

Project 5 – Northeastern Oklahoma Demonstration Farm – OCC \$242,000

The intent of this project is twofold:

1. To extend the funding for the demonstration farm for at least two additional years to insure it is maintained as a useful tool for the state
2. To provide additional monies for implementation of BMPs in the Honey Creek Watershed

Project 6 – North Canadian River Watershed Implementation Project – OCC

..... \$633,436

The objective of this project is to initiate a watershed scale effort to reduce nonpoint source loading and eliminate threats and impairments to the North Canadian River Watershed between Canton Lake and Lake Overholser. Education, implementation and monitoring activities are included in this workplan.

Section §604(b) Water Quality Management Program

Section 604(b) of the CWA authorizes assistance to States to carry out water quality management planning. The States must pass through 40% of these funds to regional planning agencies unless the Governor, in consultation with affected parties, determines that regional planning agency participation will not significantly assist the State in its water quality management planning efforts.

The state receives approximately \$100,000 per year in funding (no state match is required). Forty percent of the annual funding goes to the sub-state planning districts - usually ACOG (Association of Central Oklahoma Governments - Oklahoma City area) and INCOG (Indian Nation Council of Governments - Tulsa area). The remaining 60% is allocated to the Oklahoma Water Resources Board (OWRB) for planning purposes. The funding period for this program is approximately three (3) years.

FY 07/08 604(b) Program

Project Period: October 1, 2007 – September 30, 2010

Initial funding for this project was awarded in September 2007. Subsequent awards will be provided in 2008. Dollar amounts listed below are for a two-year period.

Project 1 – 2007 – 2009 Revision of Oklahoma’s Water Quality Standards and Association Implementation Documents – OWRB..... \$60,000

The outcome of this project will be the 2008 and 2009 interim revisions of the Water Quality Standards and implementation rules, which meet outcome codes 40, 41, and 43 as listed in the EPA Region 6 FY 05 National Water Program Guidance for Oklahoma.

Project 2 – Low Impact Development Resources – INCOG..... \$20,000

The grant will allow for a central clearinghouse of technical and academic information which will increase the implementation of Low Impact Development practices in Oklahoma.

Project 3 – El Reno Wellfield Resistivity Survey – ACOG \$20,000

Using the ACOG SuperSting, a series of approximately eleven 3D lines in a grid would be acquired using an appropriate array configuration such as a mixed dipole-gradient array. This information would be incorporated into a revised MDFLOW model to assess the impact of the septic fields to the north of the North Canadian River.

Grant Expenditures October 1, 2005 through September 30, 2006

Table 2 shows the expenditure of Clean Water Act funds between October 1, 2006 and September 30, 2007. The expenditures were for activities completed in Federal Fiscal Year 2007 and funded through current and previously awarded grant programs. Funds are distributed on a reimbursement basis as detailed in the Formal Agreement between EPA and OSE.

Summary of Grant Awards FFY 2003 thru FFY 2007

Table 3 provides a five-year summary of the Clean Water Act Grant funds received by OSE for distribution to the environmental agencies.

Table 2. Clean Water Act Expenditures to Subrecipients
(Federal Dollars for Federal Fiscal Year 2007)

FFY 2007 Clean Water Act Expenditures

	Association of Central Oklahoma Governments	Indian Nations Council of Governments	Oklahoma Conservation Commission	Oklahoma Corporation Commission	Oklahoma Department of Agriculture, Food, and Forestry*	Oklahoma Department of Environmental Quality	Oklahoma Water Resources Board	Oklahoma State University	Office of the Secretary of the Environment
104(b)(3) Program TMDL		\$ 4,167		\$ 43,689		\$ 66,532	\$ 95,771		
104(b)(3) WOCA							\$ 80,492		\$ 19,613
104(b)(3) Wetlands		\$ 27,944	\$ 130,308				\$ 116,425	\$ 6,653	\$ 255
106 Program					\$ 184,620	\$ 2,731,074	\$ 204,145		\$ 185,307
319(h) NPS Program			\$ 4,754,928						\$ 199,899
604(b) Water Quality Management Program	\$ 9,041	\$ 578					\$ 83,776		
Special Monitoring Studies							\$ 146,307		
TOTAL EXPENDITURES	\$ 9,041	\$ 32,689	\$ 4,885,236	\$ 43,689	\$ 184,620	\$ 2,797,606	\$ 726,916	\$ 6,653	\$ 405,074

*OWRB serves as contractor to ODAFF. OSE pays OWRB directly.

Table 3. Clean Water Act Funding Awarded to Subrecipients
(Federal Dollars for Federal Fiscal Years 2003 – 2007)

Clean Water Act Funding FFY 2003 - 2007

EPA Grant #	Grant Name	Start Date	End Date	Award Amount	OCC	ODEQ	OWRB	OSE	ODAFF	INCOG	Corp Comm	ACOG	Tourism
C6-400000-43	03 604 (b)	3/15/03	3/31/06	108,088			64,852			21,618		21,618	
C6-400000-44	04 604(b)	6/6/04	5/31/07	108,153			64,891			21,631		21,631	
C6-400000-45	05 604(b)	7/1/05	12/31/07	100,000			60,000			20,000		20,000	
C6-400000-46	06 604(b)	9/1/06	1/31/09	100,000			60,000			20,000		20,000	
C9-996100-10	02 319 (h)	10/1/02	9/30/07	3,661,800	3,561,800			100,000					
C9-996100-11	03 319 (h)	10/1/03	9/30/08	3,677,000	3,577,000			100,000					
C9-996100-12	04 319 (h)	10/1/04	12/30/08	3,639,800	3,522,800			107,000					10,000
C9-996100-13	05/06 319 (h)	7/6/05	6/30/10	6,299,900	6,065,900			234,000					
C9-996100-14	07 319(h)	9/1/07	7/31/12	3,045,900	2,928,900			117,000					
CD 976400-01	03 Wetlands	10/1/03	9/30/07	215,180	168,058		47,122						
CD-976775-01	04 Wetlands	10/1/04	12/31/07	214,928			127,928			87,000			
CD-966017-01	05 Wetlands	10/1/05	9/30/09	379,324	217,990		161,334						
CD-966400-01	06 Wetlands	10/1/06	9/30/09	186,600	186,600								
I-006400-03	03/04 106 SW/GW	7/1/03	6/30/04	6,114,224		5,785,760		215,964	112,500				
I-006400-05	05/06/07 106 SW/GW	7/1/04	6/30/06	8,189,627		6,933,618	300,925	567,584	387,500				
I-006400-08	08 106 SW/GW	7/1/07	6/30/08	1,110,412		760,459	182,128	136,575	31,250				
X 976076-01	02 104 (b)(3)	10/1/02	10/31/06	93,000						93,000			
CP-976113-01	02 104 (b)(3)	10/1/02	8/31/07	185,000	109,000		76,000						
CP-976227-01	02 104 (b)(3)	10/1/02	9/30/05	16,000				16,000					
CP-976497-01	03 104 (b)(3)	10/1/03	9/30/06	377,162			319,412			57,750			
CP-966144-01	05 104 (b)(3)	10/1/05	9/30/08	199,500			199,500						
CP-966148-01	05 104(b)(3)	10/1/05	9/30/07	61,640				61,640					
X7-976525-01	03 104 (b)(3)	10/1/03	12/31/07	247,955			117,199				130,756		
X7-976673-01	04 104 (b)(3)	4/11/04	3/31/06	120,658			120,658						
X7-976707-01	04 104 (b)(3)	9/1/04	12/31/07	253,758		99,528	55,730			98,500			
RM-83266701-0	05 104 (b)(3)	10/1/05	9/30/07	304,000			304,000						
EA-966425-01	06 104(b)(3)	03/15/07	01/31/10	150,000		150,000							
Total CWA Funding FFY 2003 - 2007				39,159,609									