



State of Illinois
Illinois Environmental Protection Agency
Bureau of Water
Watershed Management Section
Nonpoint Source Unit



FAA 3191308 - The **Woodridge School District 68 - Green Campus Initiatives** project installed permeable pavers, rain gardens, infiltration zones, and native landscape filter strips to reduce the quantity and improve the quality of stormwater runoff from Edgewood and Willow Creek Schools.

Section 319
Biannual Report
APPENDIX

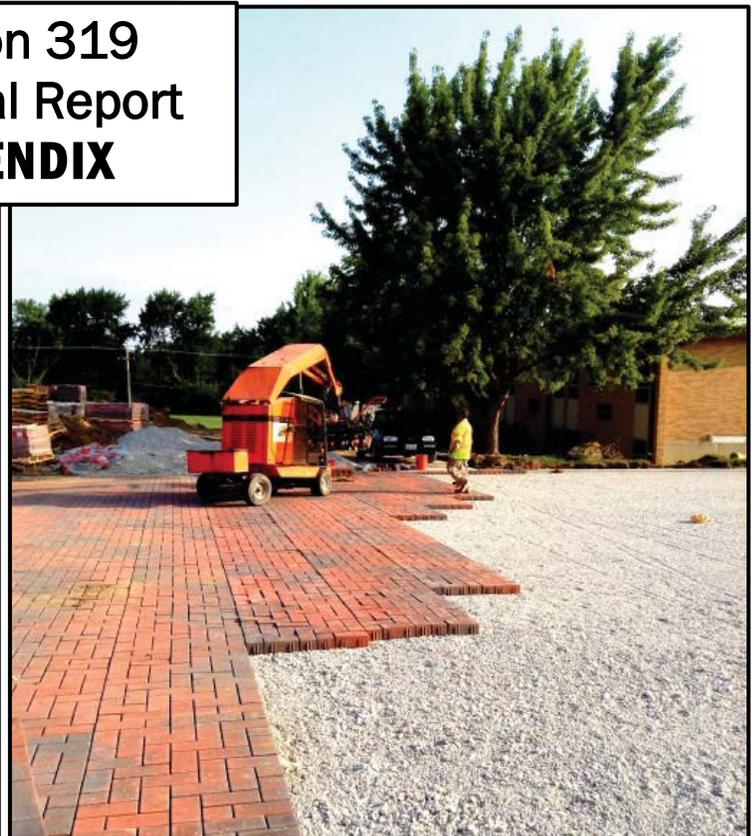


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FFY 1990 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Stormwater Management Assistance Program

Purpose: General stream maintenance was performed under this project. Beaver dams were removed from Klein Creek (ILGBK05). Debris removal, canopy thinning, and bank re-vegetation were performed on 0.98 miles of Sawmill Creek (ILGJ01) and 5.15 miles of Winfield Creek (ILGBK05). Biotechnical streambank stabilization (A-jacks, lunkers, willows, and rock weir) was performed on 500 feet of Glencrest Creek (ILGBL10).

Project Location: DuPage County

Subgrantee: DuPage County Department of Environmental Concerns
 DuPage Center, 421 North County Farm Road
 Wheaton, Illinois 60187

Project Reports and Other Informational Materials:

"Final Report: DuPage County Stream Maintenance and Streambank Stabilization Demonstration Project." May 1993. DuPage County Department of Environmental Concerns.

"DuPage County Stream Maintenance Program Report." July 1991. DuPage County Stormwater Management Committee.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	32,866 ft.	328	205	559

90-3(319)SR

Title: Wetland Protection Program Development

Purpose: Two parcels of land, totaling approximately 242 acres, were acquired for wetland protection in areas of the Cache River (ILIX04) basin.

Project Location: Johnson County

Subgrantee: Illinois Department of Conservation
 524 South Second Street
 Springfield, Illinois 62707

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
006	Wetland Acquisition	242 ac.	NA	NA	NA

90-9(319)SR

Title: Stream Corridor Initiative

Purpose: Environmentally sound biotechnical practices were implemented to arrest streambank erosion on a section of the Middle Fork of the Vermilion River (ILBPK07).

Project Location: Vermilion County

Subgrantee: Illinois Department of Conservation
524 South Second Street
Springfield, Illinois 62701

Project Reports and Other Informational Materials:

"Vegetative Restoration of Middle Fork Bank Erosion." December 1993. Illinois State Water Survey.

"Middle Fork Streambank Restoration Project." December 1993 (videotape). Illinois State Water Survey.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,000 ft.	83	70	140

90-5(319)SR

Title: Construction Erosion Control Initiative

Purpose: A multi-county implementation plan and ordinance was prepared which identified the inadequacies of existing regional soil erosion and sedimentation control programs, identified and evaluated experimental and innovative management alternatives and their applicability in the region, and recommended specific actions to reduce, eliminate, and regulate soil erosion. The project attempted to achieve agreement among local governments relating to the nature and scope of the implementation plan and ordinance.

Project Location: Counties of Peoria, Woodford, Tazewell, and Marshall

Subgrantee: Peoria County Department of Land Resources
Peoria County Court House
324 Main Street
Peoria, Illinois 61602

Project Reports and Other Informational Materials:

"Implementation Plan for a Soil Erosion and Sedimentation Control Program for Marshall, Peoria, Tazewell, and Woodford Counties." June 1992. Environmental Science & Engineering, Inc.

90-1(319)SR

Title: Butterfield Creek Urban Nonpoint Source Management Plan

Purpose: An assessment was prepared which defined the specific causes of nonpoint source impairment based on water quality and physical stream conditions. The significance of suspected nonpoint sources was identified and prioritized. A Preliminary Nonpoint Source Management Plan for Butterfield Creek (ILHBDB03) was prepared which recommended a control program addressing both structural and nonstructural measures to mitigate existing problems and minimize future impacts.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

"Development of an Urban Nonpoint Source Management Plan for Butterfield Creek." October 1991. Northeastern Illinois Planning Commission.

90-2(319)SR

Title: Livestock Waste Regulation

Purpose: Livestock operation owners and operators were educated and advised on regulatory restrictions, site design, land application practices, and utilization of management practices such as filter strips.

Project Location: Statewide

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:

"Utilizing Livestock Waste Efficiently." June 1991. Illinois Environmental Protection Agency.

"Understanding the Pollution Potential of Livestock Waste." June 1991. Illinois Environmental Protection Agency.

"Tax Certification Program for Livestock Waste Management Facilities." June 1991. Illinois Environmental Protection Agency.

"Livestock Waste Management Program - General Slide Presentation." August 1991. Illinois Environmental Protection Agency.

"Livestock Waste Management Program - Technical Slide Presentation." August 1991. Illinois Environmental Protection Agency.

"Vegetative Filter Systems - Slide Presentation." August 1991. Illinois Environmental Protection Agency.

"A Systematic Approach to Best Management Practices for Illinois Livestock Waste-Handling Facilities." 1991. Illinois Environmental Protection Agency.

90-7(319)SR

Title: Pesticide Monitoring Survey

Purpose: The United States Geological Survey (USGS), as part of the Toxic Substances Hydrology Program, in cooperation with the Illinois EPA installed automatic samplers for the collection of surface water samples in three watersheds in Illinois. The samples were used to determine the magnitude and duration of concentrations of triazine herbicides during the first runoff event following the application of herbicides in 1990. The three sites were selected to represent different areas of the state and different size drainage basins. The predominate land use in the selected sites is agricultural with a crop rotation of corn and soybeans.

Project Location: Counties of Iroquois, Piatt, and St. Clair

Subgrantee: U.S. Geological Survey
102 East Main Street
Urbana, Illinois 61801

Project Reports and Other Informational Materials:

"U.S. Geological Survey Toxic Substances Hydrology Program -- Proceedings of the Technical Meeting, Monterey, California, March 11-15, 1991." U.S. Geological Survey.

90-8(319)SR

Title: Biological Data Management

Purpose: The Illinois EPA enhanced its watershed assessment capabilities, including improved data management, assessment of key nonpoint source pollution indicators, and greater utilization of biological indicators through the use of the Biological Data System (BIOS).

Project Location: Statewide

Subgrantee: Not Applicable

Title: Regional Ground Water Protection Program and Needs Assessment

Purpose: Well site surveys were utilized to identify specific locations for maximum setback zones and initiate regulating procedures to restrict land use activities within those zones as a demonstration of the setback initiative as a ground water protection practice. Cost-share assistance was provided for demonstration purposes to a geographically select group of municipal water supply authorities to conduct needs assessments for long term protection of ground water.

Project Location: Counties of McHenry, Boone, Winnebago, Peoria, and Tazewell

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:

"Illinois Groundwater Protection Program: Pilot Groundwater Protection Needs Assessment for Pekin Public Water Supply Facility Number 1795040." November 1992. Illinois Environmental Protection Agency.

FFY 1991 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Butterfield Creek Detention Basin Retrofit

Purpose: A stormwater detention basin was redesigned and retrofitted to provide water quality benefits to Butterfield Creek (ILHBDB03). Documentation was provided for the retrofit of the basin, the effectiveness of the basin, and the estimated cost and impact of a watershed wide retrofit program.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

"Flossmoor Stormwater Detention Basin Retrofit: A Demonstration of Detention Basin Modifications to Improve Nonpoint Source Pollution Control." August 1995. Northeastern Illinois Planning Commission.

"Stormwater Detention Basin Retrofitting: Techniques to Improve Stormwater Pollutant Removal and Runoff Rate Control." 1995 (brochure). Northeastern Illinois Planning Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
800	Urban Stormwater Wetland	1 (no.)	?	68	278

91-1(319)SR

Title: Sealing of Abandoned Water Wells and Mine Holes

Purpose: 180 abandoned mine holes and/or water wells in JoDaviess County were sealed in accordance with procedures and specifications developed by the Illinois Department of Public Health. In cooperation with the Cooperative Extension Service and County Health Department, demonstrations on the proper sealing of mine holes and water wells were conducted.

Project Location: JoDaviess County

Subgrantee: JoDaviess County Soil & Water Conservation District
227 North Main Street
Elizabeth, Illinois 61028

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
005	Well Sealing	180 (no.)	N/A	?	?

91-2(319)CD

Title: Urban Site Drainage Training Course

Purpose: A three day training course was developed and presented which was designed to educate consulting engineers, landscape architects, contractors, permit reviewers and inspectors, and other governmental agency staff in the incorporation of nonpoint source control best management practices into urban drainage design. The course focused on minimizing the impacts of development on stream uses caused by decreased low flows, increased high flows, increased duration of high flows, and increased pollutant loadings.

Project Location: Statewide

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

"Urban Stormwater Best Management Practices for Northeastern Illinois - Course Notebook." April, 1993. Northeastern Illinois Planning Commission.

Title: Construction Site Erosion Control Video

Purpose: A videotape was prepared and produced describing the basic concepts and procedures for minimizing the effects of erosion through construction site planning and design, soil stabilization, sediment and runoff controls, and site inspection and maintenance. The videotape provides guidance on control practices and recommends more detailed references for designing and implementing specific controls.

Project Location: Statewide

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

"Erosion and Sediment Control - Procedures and Practices for Construction Sites." 1993 (18 min. videotape). Northeastern Illinois Planning Commission.

Title: Sequoit Creek Watershed Management Project (Phase 1)

Purpose: Information was compiled for the preparation of a nonpoint source analysis of the Sequoit Creek watershed along with specific nonpoint source management plans to address identified problems. Technical assistance was provided to local governments in reviewing soil erosion and sedimentation control plans. Baseline monitoring water quality data for lakes in the Sequoit Creek watershed were collected and compiled.

Project Location: Lake County

Subgrantee: Lake County Soil & Water Conservation District
70 South U.S. Highway 45, Suite 205
Grayslake, Illinois 60030-2208

Title: Sequoit Creek Watershed Management Project (Phase 2)

Purpose: Building upon the information collected under Phase 1, a nonpoint source analysis of the Sequoit Creek watershed was prepared along with specific nonpoint source management plans to address identified problems.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Sequoit Creek Watershed Management Project - Final Report.” January 1995. Northeastern Illinois Planning Commission.

“Sequoit Creek Watershed Management Project - Watershed Inventory Reports.” January 1995. Northeastern Illinois Planning Commission.

91-5(319)ME

Title: Siloam Springs Riparian Protection Project

Purpose: Vegetative grade controls were constructed in the Siloam Springs Lake (ILRDB) watershed which were designed to trap and treat pollutants in the water prior to its discharge to the lake as well as to enhance and protect recreation and wildlife resources of the watershed.

Project Location: Adams County

Subgrantee: Illinois State Water Survey
c/o University of Illinois
506 South Wright Street
Urbana, Illinois 61801

Project Reports and Other Informational Materials:

“Watershed Restoration in Siloam Springs State Park.” November 4, 1994 (videotape). Illinois State Water Survey.

“Preservation of Siloam Springs State Park by the Stabilization of Its Wooded Ravines.” December 1, 1994. Illinois State Water Survey.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
410	Grade Stabilization Structure	23 (no.)	?	?	?

91-3(319)GE

Title: Ground Water Ecotoxicity Assessment

Purpose: This project supported the scientific development of a ground water ecotoxicity assessment and field sampling protocol. The development process targeted testing sites to evaluate nonpoint source contributions.

Project Location: Statewide

Subgrantee: Not Applicable

91-9(319)RM

Title: Ground Water Setback Zones

Purpose: This project continued the Illinois EPA's efforts directed at identifying and regulating certain activities around community wells by proposing maximum setback zones. The Illinois EPA used available hydrogeologic information, monitoring, survey, and needs assessment data to propose maximum zones in priority areas where no local action has been taken. The process considered nonpoint source impacts and assessments. Additionally, the Illinois EPA evaluated wells utilizing alluvial aquifers that are 1,000 feet from public waters for the purpose of proposing maximum zones. Section 14.3(f) of the Illinois Groundwater Protection Act provides authority to establish maximum setback zones up to 2,500 feet from the wellhead. Maximum setback zones established in these settings prohibit new potential routes. New potential routes include drainage wells of all kinds. Three maximum setback zones were proposed.

Project Location: Statewide

Subgrantee: Not Applicable

91-7(319)RM

Title: Northeastern Illinois Community Assistance Project

Purpose: Funding was provided to help establish the Northeastern Illinois Community Assistance Office to serve the six county northeastern Illinois area. This office provides nonpoint source pollution control related technical assistance to the soil and water conservation districts, planning commissions, county departments, townships and municipalities. In addition to direct technical assistance, the staff of this office are an expansion of the existing effort to develop the Urban Best Management Practices Standards and Specifications Field Office Technical Office Guide. The major focus of the office is on erosion/sediment control, water quality, and natural resource management.

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

Subgrantee: USDA Soil Conservation Service
1902 Fox Drive
Champaign, Illinois 61820

94-27(319)ME

FFY 1991 FEDERALLY FUNDED SECTION 319 GREAT LAKES SET ASIDE PROJECTS

Title: Waukegan River Bank Stabilization and Management

Purpose: Vegetative (grasses, dogwoods, and willows) and structural (A-jacks and lunkers) streambank stabilization was performed on the Waukegan River (ILQCA01) at Washington Park and Powell Park. City and Park District personnel were trained in practice implementation. Nonpoint source regulations were also developed.

Project Location: Lake County

Subgrantee: Waukegan Park District
2000 Belvidere Street
P.O. Box 708
Waukegan, Illinois 60079

Project Reports and Other Informational Materials:

"Nonpoint Pollution Control in Urban Streams." November 1992 (5.42 min. videotape). Illinois State Water Survey.

"Nonpoint Source Control." September 1993 (videotape). Illinois State Water Survey.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	780 ft.	64	55	109

91-9(319)SR

Title: Waukegan River Rock Riffle Restoration Project

Purpose: Six stone weirs (riffles) were created on the Waukegan River (ILQCA01) in Washington Park which were designed to reduce channel incision (erosion of the streambed), enhance habitat, improve stream stability, and increase water aeration.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Pool and Riffle Restoration on the Waukegan River.” December 1996. Illinois State Water Survey.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
584	Stream Channel Stabilization	600 ft.	58	49	98

91-10(319)SR

Title: Nonpoint Source Pollution & Stream Ecology Exhibit

Purpose: An exhibit was designed, constructed, and placed on display at the Shedd Aquarium in Chicago. The exhibit includes a divided aquarium with one half designed to resemble a healthy stream environment and the other half illustrating polluted stream conditions. Both halves were stocked with fish species of an appropriate pollutant tolerance level and native to Illinois. The qualities indicative of a healthy and degraded stream environment were identified and described. The exhibit also presents information concerning the nonpoint sources of pollution which threaten the quality of Illinois’ streams and the methods by which those threats may be minimized. The purpose of this project is to enhance the public’s understanding of the value and function of streams, nonpoint source pollution and its impact on water quality, and what can be done to protect Illinois’ water resources.

Project Location: Cook County

Subgrantee: John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605

91-11(319)SR

Title: Waukegan River Habitat Evaluation Project

Purpose: This project created a process to establish a quantifiable habitat index for the Waukegan River rehabilitation project and to enhance the Waukegan River National Monitoring Strategy. A habitat index was established for the Waukegan River related to existing and proposed water quality conditions. A report was prepared documenting utilization of the habitat index on a local and regional scale.

Project Location: Lake County

Subgrantee: Not Applicable

91-12(319)SR

Title: The Environment Exhibit

Purpose: This Environment Exhibit was designed to present key concepts and principles of environmental science and technology and thereby help people examine, understand, and affect environmental issues. Information on nonpoint source pollution and related water quality issues was incorporated into the exhibit. The exhibit communicates the impacts of nonpoint source pollution, the importance of water quality protection, and what can be done to minimize nonpoint source pollution and protect water quality.

Project Location: Cook County

Subgrantee: Museum of Science and Industry
57th Street and Lake Shore Drive
Chicago, Illinois 60637-2093

91-15(319)SR

FFY 1992 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Assessment Procedures for Rural Ground Water

Purpose: A series of site assessment and information documents were prepared to assist farmers in identifying potential farmstead sources of ground water contamination and in prioritizing management and structural changes to minimize the risk of ground water pollution. The Illinois Department of Agriculture (IDOA) developed ground water protection materials tailored to Illinois' needs, conducted a pilot program utilizing these materials, printed and distributed copies of the materials to farmers wishing to participate, and held three regional training workshops for soil and water conservation district staff using the developed materials.

Project Location: Statewide

Subgrantee: Illinois Department of Agriculture
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-9281

92-1(319)JC

Title: Regional Ground Water Vulnerability Assessment

Purpose: A program was established to identify those regions of the state that are vulnerable to agricultural chemical ground water contamination, and determine what management practices are the most effective for reducing the threat of contamination. The Illinois Department of Agriculture (IDOA) correlated geologic/hydrologic data with pesticide-soil interaction data and agricultural chemical use to identify those regions of Illinois with high potential for ground water

contamination. IDOA also researched and reviewed ongoing management strategies and recommended management practices for reducing the threat of aquifer contamination.

Project Location: Statewide

Subgrantee: Illinois Department of Agriculture
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-8281

Project Reports and Other Informational Materials:

“Identification of Areas Vulnerable to Groundwater Contamination in Illinois, and Recommended Management Practices.” July 1995. Illinois Department of Agriculture.

92-2(319)JC

Title: Lake Pittsfield 314/319 Restoration Project

Purpose: This project demonstrated the cumulative effectiveness in reducing sediment transport to Lake Pittsfield (ILRDP) of a single sediment basin on the upper end of Lake Pittsfield and a series of small settling basins (ponds) located on minor tributaries prior to their discharge into Blue Creek. This project supplements the implementation of recommendations contained in the Phase I report funded under Section 314 and to be achieved through Phase II.

Project Location: Pike County

Subgrantee: Pike County Soil & Water Conservation District
1319 West Washington Street
Pittsfield, Illinois 62363

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	?	?	?
378	Pond	29 (no.)	?	?	?

92-3(319)GE

Title: National Monitoring Strategy

Purpose: This project demonstrated the effects of land management on Lake Pittsfield (ILRDP) sedimentation and water quality.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
c/o University of Illinois
109 Coble Hall, 801 S. Wright St.
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“Effects of Land Management on Lake Pittsfield Sedimentation and Water Quality.” September 1993. Illinois State Water Survey.

92-4(319)GE

Title: Big Hollow Creek Watershed Management Project

Purpose: Both structural grade control and vegetative stabilization were implemented in the urban Big Hollow Creek watershed to control stream and bluff erosion.

Project Location: Peoria County

Subgrantee: Heartland Water Resources Council of Central Illinois
Commerce Bank Building
416 Main Street, Suite 828
Peoria, Illinois 61602-1116

Project Reports and Other Informational Materials:

“Big Hollow Creek Watershed Management Project.” (videotape) 1995. Heartland Water Resources Council of Central Illinois.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,200	127	108	216

92-5(319)ME

FFY 1993 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Nature Preserves Ground Water Quality Protocol

Purpose: The primary objectives of this project were to design, develop, and demonstrate a methodology to determine potential threats to groundwater and the detection of potential damage to Nature Preserves due to off-site activities from agricultural practices and urbanization. This was accomplished by determining where sites occur in relation to sensitive aquifers and developing geohydrologic information on those Nature Preserves which are estimated to contain unique habitats related to ground water discharge. On one site, a detailed geologic/hydrologic characterization was conducted.

Project Location: Statewide

Subgrantee: Illinois Nature Preserve Commission
524 South Second Street
Springfield, Illinois 62701-1787

93-1(319)ST

Title: Paris Twin Lakes Restoration and Management

Purpose: This project demonstrated a holistic approach to in-lake and watershed treatment to enhance the water quality and recreational uses of Paris Twin Lakes (ILRBL, ILRBX) through the coordination of the Section 314 Federal Clean Lakes Program and the Section 319 Nonpoint Source Management Program. This was accomplished utilizing 319 funds to implement 8 grassed waterways, 4,800 feet of terraces, 500 feet of waterway diversions, 1 rock chute, 2 concrete block chutes, rip rap streambank stabilization, 1 concrete crossing, 5.2 acres of buffer zones, and 1 sediment retention basin.

Project Location: Edgar County

Subgrantee: Edgar County Soil & Water Conservation District
R.R. # 6, Post Office Box 89C
Paris, Illinois 61944

Project Reports and Other Informational Materials:

“Paris Twin Lakes Restoration and Management – Final Report.” November 1, 1998. Edgar County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
412	Grassed Waterway	13.9 ac.	?	?	?
638	Water & Sediment Control Basin	1 (no.)	?	?	?
378	Pond	1 (no.)	?	?	?
410	Grade Stabilization Structure	3 (no.)	?	?	?
580	Streambank/Shoreline Protection	200 ft.	?	?	?
600	Terrace	4,800 ft.	?	?	?
329	Conservation Tillage	4,206 ac.	?	?	?

93-2(319)JC

Title: Lake Taylorville Wetland Demonstration/Education

Purpose: The city of Taylorville implemented a public education program highlighting Lake Taylorville (ILREC) and its water quality. Five sediment basins and five wetlands were designed, constructed, and vegetated to reduce sedimentation to the lake and

to improve water quality through the additional nutrient uptake. Wetland training workshops were held concerning topics such as wetland construction, wetland vegetation, and/or wetland maintenance. News releases were also issued concerning project implementation.

Project Location: Christian County

Subgrantee: City of Taylorville
Municipal Building
115 North Main
Taylorville, Illinois 62568

Project Reports and Other Informational Materials:

“Water Quality Improvement of Lake Taylorville through Construction of Sediment Basins and Wetland Sites.” August 1995. Christian County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	10 (no.)	?	?	?

93-3(319)CD

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project identified sources of sediment and the efficiency of sedimentation control practices on the tributary watershed of Lake Pittsfield. This project was initiated with Section 319 funding in FFY92. The project is a cooperative Section 314/319 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
1320 S.W. Monarch
Peoria, Illinois 61

Project Reports and Other Informational Materials:

“Effects of Land management on Lake Pittsfield Sedimentation and Water Quality.” September 30, 1994. Illinois State Water Survey.

93-4(319)GE

Title: Skokie River Restoration Project

Purpose: Through the implementation of bank stabilization and restoration techniques, this project mitigated nonpoint source pollution to the Skokie River (ILHCCD09) and

downstream lagoons. The project also enhanced the aquatic habitat and uses of the Skokie River. Restoration measures applied include: prairie buffer plantings, created oxbow excavations, restored floodplain wetlands, bank stabilization through brush layering with willows and dogwoods, bank toe protection and redirected thalweg through use of biologs with prairie cord grass and emergent wetland plants, willow posts for protection of rip rap and outlet pipes and weir wall, in-stream habitat structure (riffles), and bank stabilization through 3 foot buffer along entire stream. A multi-faceted educational program was also implemented as part of the project.

Project Location: Cook County

Subgrantee: Chicago Botanic Gardens
Post Office Box 400
Glencoe, Illinois 60022

Project Reports and Other Informational Materials:

“Restoration of the Skokie River: Natural Techniques at Work.” 1996 (videotape). Chicago Botanic Garden.

“Skokie River Restoration Project.” May 1996. Chicago Botanic Garden.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	9,550 ft.	263	223	446
657	Wetland Restoration	1.1 ac.	?	?	?

93-5(319)SR

Title: Constructed Wetlands & Sustainable Agriculture

Purpose: This project constructed three small wetlands within the small watershed of a tributary of Richland Creek – South (ILOC04) to filter contaminants from surface water. The project was designed to determine the effects sustainable agricultural practices have on reducing nitrate and pesticide levels in surface water and also established an education and information program.

Project Location: St. Clair County

Subgrantee: Illinois Department of Agriculture
Division of Natural Resources
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-8281

Project Reports and Other Informational Materials:

“Wetlands – Natural Resource Wonders.” 1998. Illinois Department of Agriculture.

“Constructed Wetlands and Sustainable Agriculture – Final report.” August 1, 1998. Illinois Department of Agriculture.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	6.3 ac.	?	?	?

93-6(319)JC

Title: Areawide Animal Waste Team

Purpose: Additional technical assistance was provided to livestock producers to reduce the backlog of requests. Operators were informed of best management practices (BMP) for animal waste management, and assisted in exploring and developing innovative technology to solve waste handling and runoff problems.

Project Location: 15 counties within the Southwestern Illinois RC & D

Subgrantee: Southwestern Illinois Resource Conservation and Development
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

“Improving Rural Water Quality – An Areawide Animal Waste Team – Final Report.” March 1996. Southwestern Illinois Resource Conservation and Development, Inc.

93-7(319)JC

Title: Nonpoint Source Control on Richland & Senachwine Creeks

Purpose: To promote local control of nonpoint source pollution, a program of public education was conducted within the rural watersheds of Richland and Senachwine Creeks. The widespread implementation of biotechnical streambank stabilization projects was encouraged through 1) press releases in local news media, 2) construction of a mobile stream table which demonstrates erosion processes and its use at public events, 3) development of model operation and maintenance plans for potential streambank stabilization projects, and 4) outreach to local landowners.

Project Location: Counties of Woodford & Marshall

Subgrantee: Heartland Water Resources Council of Central Illinois
Commerce Bank Building
416 Main Street, Suite 828
Peoria, Illinois 61602-1116

93-8(319)CD

Title: Charleston Side Channel Reservoir

Purpose: This project involved the application of an innovative shoreline erosion control program including willow planting posts, a raft wave barrier test program, rip rap and gabions where needed, and selective lakeshore tree removal on Charleston Side Channel Reservoir (ILRBC). In addition, the city conducted an educational program through Eastern Illinois University and the Charleston High School. A watershed landowner survey was done, with the information being used to create an educational brochure.

Project Location: Coles County

Subgrantee: City of Charleston
520 Jackson Avenue
Charleston, Illinois 61920

Project Reports and Other Informational Materials:

“Charleston Side Channel Reservoir Section 319 Grant, Non-point Sources Pollution Control Final Report.” July 1996. City of Charleston.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	5,300 ft.	219	186	372

93-9(319)CD

Title: Shabbona Lake Shoreline & Watershed Protection

Purpose: This project protected Lake Shabbona (ILVTU) from further sedimentation by constructing a wetland (sediment basin) in a portion of the lake's watershed. No-till practices were promoted and a no-till drill made available for rental by farmers in the watershed. Shoreline stabilization (4,000 feet) on the lake was also implemented.

Project Location: DeKalb County

Subgrantee: DeKalb County Soil & Water Conservation District
315 North Sixth Street
DeKalb, Illinois 60115

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	2,200	?	?
580	Streambank/Shoreline Protection	4,000 ft	264	224	449

Title: Shallow Water Wetland Creation on Canyon Creek

Purpose: Construction of an embankment across the Illinois Canyon Creek created a one acre shallow pool designed to reduce stream velocities, trap sediment, and develop a shallow water wetland. Efforts were made during planning and design to increase the water retention time to maximize water quality benefits. A field day was held for the public once the practice was installed.

Project Location: LaSalle County

Subgrantee: LaSalle County Soil & Water Conservation District
Route 23 & Dayton Road
Ottawa, Illinois 61350

Project Reports and Other Informational Materials:

“Illinois Canyon Creek Project – An EPA 319 Non-Point Pollution Reduction Project – LaSalle County SWCD.” November 1995. LaSalle County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	?	?	?

93-11(319)JC

Title: Chain-O-Lakes Fox River Shoreline & Bank Protection

Purpose: This project implemented bio-technical methods of shoreline and bank protection, giving significant emphasis to more natural or vegetative solutions and non-structural management solutions. Three sites, totaling 461 feet of on-stream lake shoreline on the Fox River (ILDT22) were stabilized using A-Jacks, fiber roll, erosion control blankets, Fiberdam, and vegetation.

Project Location: McHenry County

Subgrantee: Chain-O-Lakes Fox River Waterway Management Agency
64 East Grand, P.O. Box 451
Fox Lake, Illinois 60020

Project Reports and Other Informational Materials:

“Protecting Your Shore - Alternatives to Seawalls.” (Brochure) January 1995. Fox Waterway Agency.

“Chain O’ Lakes Fox River Shoreline and Bank Protection Project – Final Report.” Fall 1995. Fox Waterway Agency.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	461 ft.	71	61	120

93-12(319)ME

Title: Palatine Streambank Stabilization Project

Purpose: Approximately 285 linear feet of streambank were stabilized along Salt Creek (ILGL09) through a combination of A-Jacks structures and dormant cuttings of native willows and dogwoods.

Project Location: Cook County

Subgrantee: Village of Palatine
 Department of Public Works
 148 West Illinois Street
 Palatine, Illinois 60067

Project Reports and Other Informational Materials:

“Salt Creek Streambank Stabilization Project Final Report.” June 1994. Village of Palatine.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	285	42	36	72

93-13(319)SR

Title: Paris Restoration/Protection 314/319 Project

Purpose: This project demonstrated a holistic approach to in-lake and watershed treatment to enhance the water quality and recreational uses of Paris Twin Lakes (ILRBL, ILRBX) through coordination of the Section 319 Nonpoint Source Management Program and the Section 314 Clean Lakes Program. Section 319 funds were utilized to implement practices such as shoreline stabilization and sediment retention basin construction.

Project Location: Edgar County

Subgrantee: City of Paris
 123 South Central Avenue
 Paris, Illinois 61944

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	?	?	?
580	Streambank/Shoreline Protection	2,400 ft.	80	67	134

93-14(314)JC

Title: Nonpoint Source Pollution Concert/Celebration

Purpose: The John G. Shedd Aquarium, in cooperation with the Illinois EPA, developed a program for a Wetland Wonders and Pollution Prevention Festival held at the Shedd Aquarium on six consecutive days in May, 1996. The Festival accompanied the opening of the Shedd's 1996 special exhibit, "Frogs: Wonders of the Wetlands." The program was designed to enhance the public's understanding of nonpoint source pollution and the importance of wetlands, lakes, and streams. The Festival included information and activities that explained the causes of NPS pollution, its impact on water quality, and what can be done to protect aquatic resources. The program included music, theater, storytelling, games, and similar events designed to educate as well as entertain.

Project Location: Cook County

Subgrantee: John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605

93-16(319)SR

Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

93-17(319)SR

FFY 1994 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Englewood Environmental Protection Lot Reclamation Project

Purpose: This project demonstrated the benefits of water quality education and land restoration in an urban environment by reclaiming eight inner-city lots, implementing a storm drain stenciling program, and disseminating nonpoint source education materials. The reclamation of these lots reduced the amount of pollutants entering the water system, while simultaneously aiding in the revitalization of the Englewood community. Local youth were employed to implement the reclamation and to design and develop community gardens on the formerly abandoned lots.

Project Location: Cook County

Subgrantee: University of Illinois - Cooperative Extension Service
549 Bevier Hall, 905 S. Goodwin Avenue
Urbana, Illinois 61801

Project Reports and Other Informational Materials:

"A Project with SOUL." (11.25 min. videotape) University of Illinois – Cooperative Extension Service.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
562	Recreation Area Improvement	1.6 ac.	?	?	?

94-1(319)SR

Title: Skokie Lagoons Shoreline Stabilization Project

Purpose: This project implemented shoreline restoration aimed at vegetative stabilization along approximately 2.5 miles of shoreline. The restoration focused on areas where the most erosion has occurred because these are the most significant targets for addressing nonpoint source pollutants. Treatment of the shoreline extended beyond the water's edge and into the floodplain for a distance of approximately 200 feet. Where feasible, the vegetative cover was extended into the water for further stabilization. Restoration measures used included coir fascines, gravel access points, coir mattresses, dead brush layers, sand and gravel stabilizer, live brush mattresses, rock toes, temporary wood stakes, and coir webbing.

Project Location: Cook County

Subgrantee: Forest Preserve District of Cook County
536 North Harlem Avenue
River Forest, Illinois 60305

Project Reports and Other Informational Materials:

“Skokie Lagoons Shoreline Stabilization Project – Final Report.” October 1, 1997. Forest Preserve District of Cook County.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	10,660 ft.	294	250	499

94-2(319)ST

Title: Senachwine Creek Nonpoint Source Control Project

Purpose: This project improved water quality through the treatment of uplands and floodplains in the Senachwine Creek watershed, and through the implementation of a watershed educational/training program. Cost-share assistance was provided to watershed landowners to implement a variety of upland and floodplain best management practices (BMPs). Upland BMPs included 46,725 feet of terraces, 24.2 acres of waterways, 9 sediment basins, and three grade stabilization structures. Floodplain BMPs included eight ponds and six streambank stabilization projects which addressed 3,900 linear feet.

Project Location: Peoria County

Subgrantee: Illinois River Soil Conservation Task Force
2412 West Nebraska Avenue
Peoria, Illinois 61604

Project Reports and Other Informational Materials:

“Senachwine Creek Nonpoint Source Control Project – Final Report.” December 1997. Illinois River Soil Conservation Task Force.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
600	Terrace	46,725 ft.	5,007	?	?
412	Grassed Waterway	24.2 ac.	1,689	?	?
350	Sediment Basin	9 (no.)	1,882	?	?
410	Grade Stabilization Structure	3 (no.)	265	?	?
378	Pond	8 (no.)	1,564	?	?
580	Streambank/Shoreline Stabilization	3,900	2,400	2,100	4,350

94-3(319)ME

Title: Mauvaise Terre Creek Project

Purpose: The project informed and educated the public, specifically at-risk youth, about nonpoint source pollution, how it is impairing Mauvaise Terre Creek, and what can be done to prevent this pollution. The youth involved in this project removed debris from the creek that is affecting flow and water quality and document the stretches of the creek that are experiencing streambank erosion for future restoration. An environmental education curriculum was developed for the students and the students made presentations on the project. The youth also worked with the Illinois Rivers Project through Jacksonville High School to benefit from water quality education and to assist in providing data for the Illinois Rivers Project.

Project Location: Morgan County

Subgrantee: Youth Attention Center
527 South Main Street
Jacksonville, Illinois 62650

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
326	Clearing & Snagging	400 ft.	3	3	6

94-4(319)CT

Title: Perry County Demonstration/Education Plots

Purpose: This project provided information and technology transfer regarding conservation tillage methods and their effects on water quality. This was accomplished by developing field demonstration plots from which surface and ground water samples were analyzed to determine various best management practices' effectiveness in reducing nonpoint source pollution to protect water quality in the Blacksop Creek (ILNEB01) watershed.

Project Location: Perry County

Subgrantee: Perry County Soil & Water Conservation Districts
Post Office Box 146
Pinckneyville, Illinois 62274

94-5(319)ST

Title: Macoupin County Public Water Supply Watershed Protection/Education Project

Purpose: This project addressed specific water quality issues, primarily siltation and atrazine as nonpoint source pollutants in public water supply lakes. This was done by building 18 water and sediment control basins and three wetlands in three different watersheds; establishing comparison plots of different types of vegetation in those

basins; comparing the results; and using the summary of findings to educate the public about watershed management.

Project Location: Macoupin County

Subgrantee: Macoupin County Soil & Water Conservation District
300 Carlinville Plaza
Carlinville, Illinois 62626

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
638	Water & Sediment Control Structure	18 (no.)	3,906	?	?
657	Wetland Restoration	5.3 ac.	?	?	?

94-6(319)JC

Title: City of Lockport Abandoned Well Sealing Project

Purpose: Service at the city of Lockport’s public water supply well no. 3 was discontinued in 1970 due to lack of production and high sulfur content. However, the abandoned well was not properly sealed, making it a point where potential contamination could enter the aquifer. The city of Lockport had the well properly sealed.

Project Location: Will County

Subgrantee: City of Lockport
222 East Ninth Street, Suite 4
Lockport, Illinois 60441-3497

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
005	Well Sealing	1 (no.)	?	?	?

94-8(319)JC

Title: Southern Illinois No-Till Rental & Demonstration Project (Johnson Co.)

Purpose: This project allowed the rental of no-till equipment to farmers in Johnson County at a reduced cost per acre charge. Because the economic conditions experienced in the agricultural communities in this part of the state, and the average farm size in the county being significantly less than the state average, many farmers need hands-on experience before they will be convinced to purchase the expensive equipment on their own. This project also demonstrated to the farmer ways of managing no-till so equal or better results compared to conventional tillage can be attained.

Project Location: Johnson County

Subgrantee: Johnson County Soil & Water Conservation District
 209 North 4th
 Vienna, Illinois 62995

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
329	Conservation Tillage	2,784	23,633.9	?	?

94-9(319)JC

Title: Larkdale Lagoons Shoreline Stabilization Project

Purpose: Local government staff was trained in the placement of vegetative shoreline stabilization in the Larkdale Lagoons and a connecting ditch to improve water quality performance. Approximately 700 feet of lagoon shoreline and the 700 feet of connecting ditch were planted in wetland vegetation to reduce erosion and improve nutrient removal. The water quality performance of Larkdale Lagoons was enhanced by significantly reducing shoreline and channel erosion and by adding wetland vegetation, which will substantially increase suspended and soluble pollutant removal.

Project Location: Lake County

Subgrantee: Village of Wauconda
 101 North main Street
 Wauconda, Illinois 60084-0785

Project Reports and Other Informational Materials:

“Shoreline Stabilization with Native Vegetation Training Course.” September 1995. Hey and Associates.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,400 ft.	9	8	16

94-10(319)ME

Title: Milne Creek Streambank Stabilization Project

Purpose: This project stabilized 1,125 feet of streambanks along Milne Creek using bioengineering techniques (vegetation, coconut roll, and A-Jack structures).

Project Location: Will County

Subgrantee: City of Lockport
222 East Ninth Street, Suite 4
Lockport, Illinois 60441-3497

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,125	99	84	169

94-11(319)JC

Title: Grass Lake Nonpoint Source Pollution Control Project

Purpose: This project determined and implemented cost-effective programs to reduce nonpoint source pollution in northern Grass Lake (ILRTQ) due to boat traffic and other recreational uses. Both structural and non-structural methods were implemented and evaluated, including barrier methods to restrict the movement of resuspended sediment, creation of wind breaks, water use regulation (i.e., no-wake zones and no-motor areas), and redirection of traffic routes to deeper locations. Education of boaters of the impact of their activities on resuspension of sediments and of proposed management methods was also an important part of this project.

Project Location: Counties of Lake and McHenry

Subgrantee: Chain-O-Lakes Fox River Waterway Management Agency
64 East Grand, Post Office Box 541
Fox Lake, Illinois 60020

94-12(319)SR

Title: DeKalb County Streambank and No-Till Program

Purpose: This project protected Lake Holiday from sedimentation and other sources of nonpoint source pollution attributed to agricultural runoff. This was accompanied by increasing the number of acres in the watershed that are farmed by no-till. A no-till drill was supplied to farmers at a \$4 per acre charge to encourage the practice and was used on 650 acres. Rip rap was installed to stabilize 300 feet of streambank on Samonauk Creek (ILD TB01).

Project Location: DeKalb County

Subgrantee: DeKalb County Soil & Water Conservation District
315 North Sixth Street
Dekalb, Illinois 60115

Project Reports and Other Informational Materials:

“Samonauk Creek 319 Grant - Final Report.” 1997. DeKalb County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
329	Conservation Tillage	650 ac.	5,500	?	?
580	Streambank/Shoreline Protection	300 ft.	50	42	84

94-13(319)CD

Title: Norton Creek Urban Stream Maintenance/Restoration Program

Purpose: Norton Creek became degraded due to changes in watershed hydrology, channel modifications, incursion of non-native woody vegetation, and lack of maintenance. Periodic failure of septic systems were reported due to debris blockages, which back up waters, further degrading water quality. To reduce debris related backups and streambank erosion, and to improve habitat and pollutant filtering mechanisms in Norton Creek, stream maintenance and restoration activities were implemented. These activities included the removal and disposal of nuisance vegetation adjacent to the stream such as overhanging trees, limbs, and shrubs, as well as other debris. These techniques were applied to approximately 7,000 feet of stream.

Project Location: Kane County

Subgrantee: Village of Wayne
5N430 Railroad Street
Post Office Box 532
Wayne, Illinois 60184

Project Reports and Other Informational Materials:

“Final Report – Norton Creek Urban Stream Maintenance/Restoration Plan.” May 23, 1996. Christopher B. Burke Engineering, LTD.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
326	Clearing & Snagging	7,000 ft.	?	?	?

94-14(319)ME

Title: Greenleaf Creek Streambank Stabilization Project

Purpose: This project demonstrated the ability to stabilize streambanks within an urbanized watershed by implementing an aggressive vegetation management program to remove undesirable non-native plant species on 1,100 feet of streambank, reintroduce native wetland/streamside species on 1,100 feet of streambank, and stabilization of 600 feet of streambank with A-Jacks. An educational opportunity to adjacent property owners was also provided.

Project Location: Lake County

Subgrantee: City of Park City
3420 Kehm Boulevard
Park City, Illinois 60085

Project Reports and Other Informational Materials:

“Greenleaf Creek Streambank Stabilization Project.” (videotape) 1996. RSK Consultants, Inc.

“Greenleaf Creek Streambank Stabilization Project.” 1996. RSK Consultants, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,700 ft.	22	19	38

94-15(319)ME

Title: Ninemile Creek Watershed Sinkhole Stabilization Project

Purpose: This project demonstrated and provided information/education to residents and landowners in the Ninemile Creek watershed as to cost-effective practices and methods to improve water quality. Ten (10) sinkholes were stabilized with appropriate land treatment practices applied to the surrounding land.

Project Location: Randolph County

Subgrantee: Randolph County Soil & Water Conservation District
313 West Belmont
Sparta, Illinois 62286

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
008	Sinkhole Stabilization	10 (no.)	?	?	?

94-17(319)ME

Title: Ground Water Pollution Prevention Project

Purpose: This project included nonpoint source pollution prevention education for both the urban and rural communities including three field days and/or training workshops for landowners, well sealing contractors, public officials, Soil Conservation Service, Cooperative Extension Service, and soil and water conservation district (SWCD) personnel. The field days and workshops demonstrated the correct procedures to seal abandoned wells and promoted a variety of best management practices (BMPs)

such as setback zones and pesticide and nutrient management practices to be implemented by landowners, business, and municipalities, etc. for the protection of ground water. County and municipal officials within Iroquois County were contacted concerning ground water protection and assistance was provided to those who plan to implement pollution prevention practices. Program information was also provided to surrounding SWCDs and other similar organizations. In addition to the educational portion, a cost-share program was administered so that a total of 58 abandoned wells were properly sealed.

Project Location: Iroquois County

Subgrantee: Iroquois County Soil & Water Conservation District
205 West Oak Street
Watseka, Illinois 60970

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
005	Well Sealing	58 (no.)	?	?	?

94-18(319)CD

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project will continue the identification of sources of sediment and the efficiency of sedimentation control practices on the tributary watershed of Lake Pittsfield. This project was previously funded under Section 319 in federal fiscal years 1992 and 1993. The project is a cooperative Section 319/314 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

94-19(319)ST

Title: Waukegan River National Monitoring Strategy

Purpose: This project utilized the national monitoring program to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River. The urban fisheries and stream habitat were surveyed before implementation of biotechnical stream stabilization. Under the national monitoring program, stream fishery and instream habitat were surveyed to provide post implementation data. The monitoring strategy included macroinvertebrate sampling, physical habitat monitoring, and fisheries monitoring during the spring, summer, and fall cycles of the project period. All monitoring and associated data were entered

into USEPA's Nonpoint Source Management System (NPSMS) and STORET system. A color brochure was developed which described 1) the biotechnical stream stabilization techniques implemented on the Waukegan River, 2) the monitoring program, and 3) the physical and biological enhancements achieved on the Waukegan River. A report was prepared summarizing the monitoring data and the findings related to the effectiveness of implemented biotechnical stream stabilization techniques, including but not limited to improvements in habitat and bank stabilization.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

94-20(319)ST

Title: Stream Restoration Manual

Purpose: A manual was developed which provides detailed instructions on the application of stream restoration techniques (both biotechnical and streambed controls) in a watershed context. The instructional manual is divided into three sections: 1) introduction to geomorphic assessments of watersheds and stream geometry, 2) application of biotechnical techniques within a watershed context, and 3) application of streambed grade controls to enhance stable pool and riffle habitat. The instructional manual is supplemented with video footage of the described application and geomorphic setting.

Project Location: Statewide

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

"Field Manual of Urban Stream Restoration." June 1997. Illinois State Water Survey

94-21(319)CT

Title: National Monitoring Conference

Purpose: This project brought together a variety of entities involved in the assessment of water quality in the United States and Canada. The conference focused on those groups and individuals with an interest in national monitoring projects and those with the knowledge of water quality assessment in order to create a unified, organized effort to accomplish water quality improvement. The conference also highlighted the

use of national monitoring criteria to provide comparable results and to improve the opportunity for water quality data comparisons between states.

Project Location: Statewide

94-22(319)CT

Title: Nonpoint Source Pollution Awareness Through Advertisements

Purpose: This project heightened the awareness of urban nonpoint source pollution (specifically stormwater runoff) through pollution prevention advertisements (messages, graphics, and photographs) on billboards in Springfield, Illinois. The advertisements will address the different types of pollutants associated with urban runoff and highlighted the concept of pollution prevention through watershed management. One billboard design was featured in Springfield from July through August, 1996. A second new design was used from September through October, 1996.

Project Location: Sangamon County

Subgrantee: Not Applicable

94-24(319)CT

Title: GIS Technology Support for the Targeted Watershed Approach

Purpose: This project created the coverages and programs necessary for conducting the Targeted Watershed Approach (TWA) in a geographic information system (GIS) environment and trained Illinois EPA staff in GIS techniques and applications. The TWA is a method of prioritizing Illinois EPA's Bureau of Water program activities within targeted watersheds where the greatest environmental benefit can be realized. The Support Technology for Environmental Water & Agricultural Resource Decisions (STEWARD) and Agricultural Nonpoint Source Pollution (AGNPS) model were applied on the Lake Pittsfield watershed to 1) identify recommended best management practices (BMPs) that should be applied; 2) quantify pollutants loads under conditions before and after implementation of Section 319 BMPs; 3) evaluate the effectiveness of applied BMPs; and 4) determine the functional value of the models for these purposes.

Project Location: Statewide

Subgrantee: Illinois State Water Survey
2204 Griffith Drive
Champaign, Illinois 61820-7495

Project Reports and Other Informational Materials:

“GIS Technology Support for the Targeted Watershed Approach.” June 1996. Illinois State Water Survey and Illinois Environmental Protection Agency.

“Investigation of the STEWARD Expert System for the lake Pittsfield Watershed.” December 1998. Illinois State Water Survey.

“Modeling the Lake Pittsfield Watershed Using the AGNPS-ARC/INFO Model.” December 1998. Illinois State Water Survey.

94-25(319)SR

Title: Southern Illinois No-Till Rental and Demonstration Project (Union Co.)

Purpose: This project allowed the rental of no-till equipment to farmers in Union County at a reduced cost per acre charge. Because the economic conditions experienced in the agricultural communities in this part of the state, and the average farm size in the county being significantly less than the state average, many farmers need hands-on experience before they will be convinced to purchase the expensive equipment on their own. This project also demonstrated to the farmer ways of managing no-till so equal or better results compared to conventional tillage can be attained.

Project Location: Union County

Subgrantee: Union County Soil & Water Conservation District
R.R. #2, Box 305C
Anna, Illinois 62906

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
329	Conservation Tillage	5,038.5 ac.	49,512.9	?	?

94-26(319)JC

Title: NPS Information and Education Conference

Purpose: The Illinois EPA held a conference during the fall of 1996 focused on the techniques utilized to inform and educate the public about nonpoint source pollution prevention. Federal, state, local, and volunteer groups discussed their efforts and students participating in environmental programs made presentations on their efforts. A site visit was made to the Brookfield Zoo and an optional trip to the Shedd Aquarium (two information/education projects funded in part by Section 319).

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

94-29(319)CT

Title: Joliet Arsenal Riparian Restoration Project

Purpose: This project provided geographic information system data, maps, and model analysis for the creation and restoration of wetlands and protection of the wetland systems within the Joliet Arsenal.

Project Location: Will County

Subgrantee: Illinois Department of Natural Resources
524 South Second
Springfield, Illinois 62701-1787

94-30(319)ST

Title: Biotic Assessment of Watershed Management Practices Methodology

Purpose: The Illinois EPA will assess and revise current Index of biotic Integrity (IBI) metrics, including incorporation of alternative measures of stream size. Revision of the effort metric shall be assessed, including modifications to account for low fish abundance. After revision of the effort metric, an IBI user manual will be developed. Recommendations and protocols regarding use of the IBI as a watershed assessment tool will also be developed. Finally, various regionalization schemes for fisheries communities will be verified and recommended.

Project Location: Statewide

Subgrantee: Center for Aquatic Ecology
Illinois Natural History Survey
607 E. Peabody Drive
Champaign, Illinois 61820

94-31(319)GG

Title: Blue Creek Stream Restoration Project

Purpose: Blue Creek, a tributary of Lake Pittsfield (ILRDP), was experiencing streambed incision and mass wasting of oversteepened banks, producing for increased sediment yield. Along the stream channel, large ravines had eroded around concrete drop structures and were downcutting upstream through grassed waterways into row crop fields, further increasing sediment yield. To address these problems, the stream channel was stabilized with 12 low rock wiers, which were

spaced as natural riffles along 1,500 feet of stream. Two of the weirs were constructed to serve as low water stream crossings for farm equipment. Eroding banks were stabilized with vegetation. In some weir locations, riprap was extended downstream to protect the streambed and bank on meander bends from the high energy flows generated on the weir backslope. Two ravine erosion sites were stabilized with riprap, soils, and grasses where runoff had eroded soils from concrete drop structures.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Blue Creek Restoration – Riffle/Weir Construction.” 1998. Illinois State Water Survey.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
584	Stream Channel Stabilization	1,500 ft.	99	84	168

94-32(319)ST

Title: Macoupin County Public Water Supply Watershed Project

Purpose: This project addressed water quality problems, primarily siltation and atrazine, of two public water supply lakes. Thirteen (13) water and sediment control basins were constructed in the Otter Lake (ILRDF) watershed.

Project Location: Macoupin County

Subgrantee: Macoupin County Soil & Water Conservation District
300 Carlinville Plaza
Carlinville, Illinois 62626

Project Reports and Other Informational Materials:

“Macoupin County PWS Watershed Project – Final Report.” August 25, 1999. Macoupin County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
638	Water & Sediment Control Basin	13 (no.)	442	?	?

94-34(319)JC

Title: The North Branch Chicago River Project – 2

Purpose: With funding under Section 319 in federal fiscal year 1996, the Friends of the Chicago River and its project partners developed a model urban watershed protection handbook that will assist urban resource managers and interested parties throughout the midwest in the protection, restoration, and maintenance of similar watersheds. The handbook was developed and field tested as part of the development of an actual watershed strategy and implementation effort for the North Branch of the Chicago River (ILHCC08). With supplemental funding under the FFY94 Section 319 grant, the friends of the Chicago River implemented additional best management practices to demonstrate techniques for the protection and restoration of water quality in the North Branch of the Chicago River. Funding was also used to print additional copies of the model urban watershed protection handbook.

Project Location: Counties of Lake & Cook

Subgrantee: Friends of the Chicago River
407 S. Dearborn Street, Suite 1580
Chicago, Illinois 60605

Project Reports and Other Informational Materials:

“Voices of the Watershed – A Guide to Urban Watershed Management Planning.” 1999. Friends of the Chicago River.

“North Branch Chicago River Project – Final Report.” June 13, 2000 Friends of the Chicago River.

94-35(319)CD

Title: Salt Creek Streambank Stabilization Project

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of eroding streambanks along an approximately 2,735 foot segment of Salt Creek (ILGL09) located in Wood Dale, Illinois. Bioengineering techniques (i.e., geogrid, lunkers, A-jacks, fiber rolls, minor stream regrading, vegetation) were used. An educational stand was also installed at the site to explain the streambank stabilization practices and the importance of nonpoint source pollution control.

Project Location: DuPage County

Subgrantee: City of Wood Dale
404 North Wood Dale Road
Wood Dale, Illinois 60191

Project Reports and Other Informational Materials:

“Salt Creek Streambank Stabilization Project – Final Report.” August 2000. City of Wood Dale.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,735 ft.	127	109	216

94-36(319)SR

Title: Nonpoint Source Pollution Book for Grades 3 through 5

Purpose: This project developed a “Magic School Bus” style book on nonpoint source pollution. The intended audience is youth in the 3rd through 5th grades. A teachers guide was also developed.

Project Location: Statewide

Subgrantee: The University of Illinois
801 South Wright Street
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“Secret Agent Worms In ... The Disappearing Earth.” December 2000. University of Illinois Extension.

“Mission Possible – A Teacher’s Guide for the Disappearing Earth.” December 2000. University of Illinois Extension.

94-37(319)BL

FFY 1995 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Mackinaw River Project

Purpose: This project assisted rural land and water managers in Illinois’ Mackinaw River (ILDK13) eco-shed in protecting and restoring aquatic and riparian life. The project demonstrates the viability of cooperative efforts to implement land and water management practices that are ecologically, economically, and socially compatible. The project implemented a replicable process for examining, prioritizing, and correcting water quality impairments resulting from changes in land use and hydrology, and increased nonpoint source pollution. The project illustrated innovative solutions to economic and social constraints to the adoption of best management

practices. The project established a process for involving and empowering key stakeholders in eco-shed management.

Project Location: Counties of Mason, Tazewell, Woodford, Ford, McLean, and Livingston

Subgrantee: The Nature Conservancy, Central Illinois Field Office
416 Main Street, Suite 1112
Peoria, Illinois 61602

Project Reports and Other Informational Materials:

“Building Partnerships Over Land & Water – The Mackinaw River Project.” (videotape, 24 min.) 1998. The Nature Conservancy.

“Ensuring Citizens Have a Voice ... a Guide to Watershed Management Planning.” 1998. The Nature Conservancy.

“Mackinaw River Watershed Management Plan.” June 1998. The Nature Conservancy.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	59 ac.	?	?	?
350	Sediment Basin	5 (no.)	?	?	?
580	Streambank/Shoreline Protection	9,240 ft.	203	172	346
556	Planned Grazing System	40 ac.	?	?	?
410	Grade Stabilization Structure	3 (no.)	?	?	?
612	Tree Planting	12 ac.	?	?	?
614	Trough or Tank	1 (no.)	?	?	?
512	Pasture & Hayland Planting	14 ac.	?	?	?
510	Pasture & Hayland Management	416 ac.	?	?	?
644	Wildlife Wetland Habitat Management	4 ac.	?	?	?
666	Woodland Improvement	242 ac.	?	?	?
314	Brush Management	6 ac.	?	?	?
870	Level Spreader	3 ac.	?	?	?
472	Livestock Exclusion	10 ac.	?	?	?
342	Critical Area Planting	3 ac.	?	?	?

95-1(319)CD

Title: Lake Forest Wetland Demonstration Project

Purpose: This project recreated a 25 acre wetland by restoring the natural hydrology and vegetative cover of the project site, primarily floodplain. Drainage tiles and minor water control structures were disabled to allow for the creation of a wetlands complex which intercepts runoff and benefits water quality. The project diverted stormwater runoff from the upstream sources into a wetlands system where it receives secondary biological treatment prior to discharge into the Middle Fork of the North Branch of the Chicago River (ILHCCC04). The project also involved the implementation of a public education program.

Project Location: Lake County

Subgrantee: Lake County Forest Preserve District
2000 Milwaukee Avenue
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

“Lake Forest Wetlands Demonstration Project.” January 31, 1997. Lake County Forest Preserve District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	25 ac.	?	?	?

95-2(319)ME

Title: Urban Erosion Control Project

Purpose: This project was implemented in an agricultural area undergoing phased urban development in the Lake Springfield watershed. The project demonstrated the effectiveness of nonpoint source pollution control practices implemented and maintained during the construction of utilities and houses. Control sites were used for comparison purposes. The effectiveness of pollution control techniques were documented through videotape and a computer simulation model of runoff from the project sites. Project results were used for preparing a draft construction erosion control ordinance in Sangamon County and for strengthening an existing city of Springfield Land Subdivision Ordinance.

Project Location: Sangamon County

Subgrantee: Sangamon County Soil & Water Conservation District
40 Adloff Lane, Suite 4
Springfield, Illinois 62703

Project Reports and Other Informational Materials:

“Urban Development Erosion Control Demonstration Project for Lake Springfield Watershed – Final Report.” October 1997. Sangamon County Soil & Water Conservation District.

95-3(319)JC

Title: Chick Evans Golf Course Stream Protection Project

Purpose: This project created a filter strip along the North Branch of the Chicago River (ILHCC08) in the Chick Evans Golf Course to reduce nonpoint source pollution such as sediment, fertilizers, and other chemicals through the establishment of land treatment measures that improved aesthetic conditions, enhanced environmental

quality, and inhibit flood damage. A-jacks, lunkers, and vegetation were established along the river to stabilize 827 feet of streambanks and reduce the amount of sediment released into the water and filter runoff from the golf course.

Project Location: Cook County

Subgrantee: Forest Preserve District of Cook County
536 North Harlem Avenue
River Forest, Illinois 60305

Project Reports and Other Informational Materials:

“Chick Evans Golf Course Stream Protection Project – Final Report.” September 1997. Forest Preserve District of Cook County.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Stabilization	827 ft.	34	29	58

95-4(319)SR

Title: Illinois Farm-A-Syst

Purpose: This project was Phase 2 of the Farm-A-Syst program established by the Illinois Department of Agriculture. Phase 2 further developed and enhanced the efforts and developments of Phase 1 of this effort by providing additional training, the development of Illinois Farm-A-Syst Plus, the development of Illinois Home-A-Syst, and by providing the availability of water sampling. Phase 2 was the next step in the development of a Farm-A-Syst program which was comprehensive and provided universal statewide coverage.

Project Location: Statewide

Subgrantee: Illinois Department of Agriculture
Division of Natural Resources
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-9281

95-5(319)JC

Title: 60 Ways Farmers Can Protect Surface Water

Purpose: A guidebook entitled 60 Ways Farmers Can Protect Surface Water was developed, published, and distributed. The book contains information on techniques to control soil erosion and livestock waste, methods for reducing chemical use, and application of best management practices that prevent surface water contamination.

Project Location: Statewide

Subgrantee: University of Illinois - Cooperative Extension Service
65 Mumford Hall, 1301 N. Gregory Drive
Urbana, Illinois 61801

Project Reports and Other Informational Materials:

“60 Ways Farmers Can Protect Surface Water.” August 1997. University of Illinois - Cooperative Extension Service.

95-7(319)CT

Title: Phase 1 Implementation of the Flint Creek Watershed Management Plan

Purpose: This project initiated the implementation of a comprehensive nonpoint source pollution control strategy developed with Clean Water Act Section 104(b)(3) funding. Recommendations of the Flint Creek (ILDTZS01) watershed management plan were executed through the coordinated implementation of best management practices for urban runoff and stream and watershed management. The overall project included streambank (6,656 feet) and lake shoreline (250 feet) stabilization/restoration, the installation of sand filters, flow control structures, wetland restoration, public education, and implementation of the Lake County Watershed Development Ordinance in the Flint Creek watershed.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Flint Creek Watershed Restoration Projects.” September 1997. Northeastern Illinois Planning Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	6,906	128	108	217
845	Infiltration Trench	2 (no.)	?	?	?
840	Grassed Lined Channel	0.33 ac.	?	1	3
657	Wetland Restoration	0.63 ac.	?	?	?

95-8(319)SR

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield. This project was previously funded under Section 319 in federal fiscal years 1992, 1993, and 1994. The project is a cooperative Section 319/314 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Effects of Land Management on Lake Pittsfield Sedimentation and Water Quality - National Watershed Monitoring Project.” November 15, 1996. Illinois State Water Survey.

95-9(319)ST

Title: Waukegan River National Monitoring Strategy (Phase 2)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Waukegan River National Monitoring Program – Biological and Physical Monitoring of Waukegan River Restoration Efforts in Biotechnical Bank Protection and Pool/Riffle Creation.” May 1997. Illinois State Water Survey.

95-10(319)ST

Title: Southwestern Illinois Karst Project

Purpose: This project was located within Illinois EPA’s Southern Illinois Ground Water Protection Region. The three counties involved have more than 220,800 acres of karst topography. The project educated residents in the karst areas about how their activities affect the quality of the ground water, what nonpoint source pollution is, and the best management practices needed to prevent it. In addition, technical

studies were conducted to produce up-to-date assessments on the ground water quality of the area, identify priority contaminants, and their pathways.

Project Location: Monroe County

Subgrantee: Monroe-Randolph Bi-County Health Department
901 Illinois Avenue, Suite A
Waterloo, Illinois 62298

Project Reports and Other Informational Materials:

Karst Land in Illinois.” (poster) 1997. Illinois State Geological Survey.

“Southwestern Illinois Sinkhole Plain – Best Management Practices Manual.” 1997. Mississippi Karst Resource Planning Committee.

“Groundwater Quality & Contaminant Levels, Monroe County, Illinois.” 1997. Southern Illinois University.

“Groundwater Tracing and Recharge Area Delineation Study for Two Karst Study Areas in Monroe County, Illinois.” January 29, 1998. Ozark Underground Laboratory.

95-11(319)CD

Title: Brookfield Zoo NPS Pollution Awareness Exhibit (Wetlands Conservation Exhibit)

Purpose: A Wetlands Conservation Exhibit was designed and constructed to enhance the public’s understanding of the value and function of swamps, marshes, and other wetlands. The exhibit highlighted the importance of wetlands in improving water quality, supporting wildlife, and controlling floods. Impacts on water quality and wetlands, such as nonpoint source pollution, draining and filling, introduction of exotic species, and unsustainable use of natural resources are presented. The qualities indicative of a healthy wetland environment are displayed and described. The ways in which human activities impact wetland ecosystems, including nonpoint source pollution, are demonstrated in a variety of means throughout the exhibit. The actions zoo visitors can take to minimize negative impacts on wetlands are also displayed, such as minimizing the use of fertilizers and pesticides, helping to enforce existing wetland protection laws, keeping harmful materials out of storm sewers, and supporting wetlands protection and enhancement efforts.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
Brookfield Zoo
3300 Golf Road
Brookfield, Illinois 60513

Project Reports and Other Informational Materials:

“The Swamp: Wonders of Our Wetlands.” (video and narrated photo journal) March 1996. Chicago Zoological Society.

95-12(319)RM

Title: Shedd Aquarium NPS Pollution Awareness Exhibit (WaterWise)

Purpose: The WaterWise exhibit was designed and constructed to explain the various forms of nonpoint source pollution, their impacts on the environment, methods for minimizing those impacts, and the importance of water quality protection. The information was presented in a fun and engaging manner to stimulate the public’s willingness to participate in the practical solutions to nonpoint source pollution highlighted by the exhibit. The exhibit was located in the John G. Shedd Aquarium’s main foyer during August 1995. Each Thursday evening in August 1995, the exhibit was part of a special “after hours” event. Illinois EPA employees and other volunteers staffed the exhibit, providing the public an opportunity to talk with water quality experts. After August, the exhibit was relocated to an alternate venue. WaterWise was coordinated with, and the funding used to enhance, the Nonpoint Source Pollution and Stream Ecology exhibit initiated with Federal fiscal year 1991 Section 319 funds.

Project Location: Cook County

Subgrantee: John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605

95-13(319)SR

Title: Lincoln Memorial Garden NPS Pollution Control Education Project

Purpose: Demonstrative best management practices (BMPs) for nonpoint source pollution control were implemented on Lincoln Memorial Garden property located within the Lake Springfield watershed. BMPs included upland watershed treatment, streambank stabilization, shoreline protection, critical area vegetative management (prairie grasses and forbes and trees), reforestation, and wetland restoration. The project also provided an excellent opportunity for “hand-on” application workshops for a variety of ages. In addition to the BMPs, a nonpoint source pollution control interpretive exhibit was located at the Nature Center on the Garden property and information/education materials were developed and distributed.

Project Location: Sangamon County

Subgrantee: Lincoln Memorial Garden
2301 East Lake Drive
Springfield, Illinois 62707

Project Reports and Other Informational Materials:

“Striving For Cleaner Water: A Self-Guided Trail Tour.” Brochure. 1999. Lincoln Memorial Garden.

“Lincoln Memorial Garden Nonpoint Source Pollution Control Education Project – Final Report.” January 30, 1999. Lincoln Memorial Garden Nature Center.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	3.0 ac.	?	?	?
356	Dike	100 ft.	?	?	?
410	Grade Stabilization Structure	3 (no.)	?	?	?
584	Stream Channel Stabilization	1,100 ft.	72	61	124
580	Streambank/Shoreline Protection	2,400 ft.	170	144	291
393	Filter Strip	?	?	?	?

95-15(319)CD

Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling. The CEN also developed a long range plan identifying its 10 year mission and strategy, including future programs and functions, resource needs, goals and objectives, etc.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

95-16(319)SR

Title: Indian Lake Interpretation

Purpose: Through a cooperative effort with the Chicago Zoological Society (Brookfield Zoo), the Illinois EPA created an interpretive program designed to educate visitors about the benefits of healthy lake ecosystems, the physical and biological characteristics of functioning lakes including the flora and fauna of such habitats in Illinois, the positive and negative impacts of people on lakes, and how visitors can help protect lake water quality. This interpretive program is located around Indian Lake (ILWGZY) at the Brookfield Zoo.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

Project Reports and Other Informational Materials:

“Salt Creek Wilderness, Indian Lake, Dragonfly Marsh – Final Report.” August, 1999.
Brookfield Zoo.

95-17(319)ST

Title: Know Your Watershed Program

Purpose: The Illinois EPA assisted in the Conservation Technology Information Center’s efforts to host one statewide Watershed Partnership Workshop and three regional Watershed Facilitator Workshops in Illinois. The workshops were targeted to representatives from municipalities, state agencies, state level associations, commodity groups, private industry, non-governmental organizations, and other pertinent groups working with watershed management. The focus of the workshops was on what each organization can provide toward the management of watersheds in Illinois.

Project Location: Statewide

Subgrantee: Conservation Technology Information Center
1220 Potter Drive, Room 170
West Lafayette, Indiana 47906-1383

Project Reports and Other Informational Materials:

“Bridge Builder – A Guide for Watershed Partnerships. Facilitators Handbook.” 1998.
Conservation Technology Information Center.

95-18(319)CD

Title: Illinois River Watershed Display

Purpose: An Illinois River watershed display and brochure was designed to enhance the public’s awareness of the watershed, water quality of the watershed, nonpoint source pollution and its impact on the Illinois River watershed, efforts to improve water quality in the watershed, tips on how the public can prevent nonpoint source pollution in the watershed, and history of the Illinois River watershed. The display will be placed on exhibition at various locations, including at the Clean Water Celebration in March 1999 at the Peoria Civic Center.

Project Location: Peoria County

Subgrantee: Powell Press Board of Managers
942 N. E. Glen Oak
Peoria, Illinois 61603

Project Reports and Other Informational Materials:

“Our River is a Reflection of Our Community.” (Brochure) 1999. The Peoria Historical Society.

95-19(319)SR

Title: National Urban Water Quality Retrofit Conference

Purpose: Financial and technical assistance was provided by the Illinois EPA to help host the National Urban Water Quality Retrofit Conference. The conference highlighted innovative technologies and approaches for the improvement of water quality in urban areas.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

95-20(319)SR

FFY 1996 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: NPS Control in a Priority Ground Water Protection Planning Region

Purpose: The goal of this project was to reduce the leaching potential of certain pesticides within community water supplies (CWS) well recharge areas, given soil characteristics and implementation of selected agricultural best management practices (BMPs). The three CWSs chosen were Edwardsville, Roxana, and Troy all located in the Southern Groundwater Protection Planning Region. Landowners employed BMPs on 750 out of 1,000 acres within the recharge areas.

Project Location: Madison County

Subgrantee: Madison County Soil & Water Conservation District
7205 Marine Road, P.O. Box 482
Edwardsville, Illinois 62025

96-1(319)SR

Title: North Branch Chicago River Watershed Project

Purpose: A model urban watershed protection handbook was developed to assist urban resource managers and interested parties throughout the Midwest in the protection, restoration, and maintenance of similar watersheds. The handbook was developed and field tested as part of the development of an actual watershed management plan and implementation effort for the North Branch of the Chicago River (ILHCC08). The project promoted partnerships that advocate and implement watershed planning and the implementation of best management practices.

Project Location: Cook County

Subgrantee: Friends of the Chicago River
407 S. Dearborn Street, Suite 1580
Chicago, Illinois 60605

Project Reports and Other Informational Materials:

“Voices of the Watershed – A Guide to Urban Watershed Management Planning – Based on the Experiences of the North Branch Watershed Project.” 1999. Friends of the Chicago River.

“North Branch Chicago River Project – Final Report.” February 9, 2000. Friends of the Chicago River.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	4,700 ft.	27.7	22	42
865	Land Grading	1.8 ac.	5.7	5	9
880	Permanent Seeding	1.8 ac.	5.7	5	9
800	Urban Stormwater Wetland	1 (no.)	?	11	45

96-2(319)CD

Title: Indian Lake Wetlands Educational Interpretation Project

Purpose: The Illinois EPA expanded its nonpoint source pollution control information/education program through a cooperative effort with the Chicago Zoological Society (Brookfield Zoo). A wetland adjacent to the Zoo’s Indian Lake (ILWGZY) was designed to help visitors experience a functioning wetland system in northeastern Illinois. An educational interpretive program was developed for the wetland to highlight both the positive and negative impacts people can have on the environment, with an emphasis on helping visitors learn about ways they can help the environment. A boardwalk was constructed through the wetland for visitors to safely travel through the wetland without disrupting the natural functions. Visitors have the opportunity to perform hands-on tests to see how the wetland improves water quality. Signage and interactive devices along the boardwalk help visitors understand the importance of clean water. A self-guided trail tells the wetland story without detracting from the surrounding natural scene.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

Project Reports and Other Informational Materials:

“Salt Creek Wilderness, Indian Lake, Dragonfly Marsh – Final Report.” August, 1999.
Brookfield Zoo.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	1.5 ac.	?	?	?

96-3(319)ST

Title: Expansion of the Water Works Lab

Purpose: A Water Lab exhibit was constructed at the Chicago Academy of Sciences' new Nature Museum to present key concepts of water related sciences to help people examine, understand, and affect environmental issues. The Water Lab is a “hands-on/minds-on” exhibit and a working laboratory/classroom. A large model of the Chicago River provides explanations of how the river works, and what kinds of plants and animals live in this environment. The model explains the concept of watersheds and that what we do on the land impacts the quality of our water. The history of how the river has changed is described, as are the different types of uses and ecosystems of the river and Lake Michigan. Interactive devices teach visitors about urban nonpoint source pollution and how such pollution can be reduced. The loss, function, and benefits of wetlands are explained. The exhibit includes aquarium tanks stocked with aquatic animals, including species both exotic and native to the Chicago River. A separate stream table allows visitors to make their own river and learn first hand how water shapes the land while exploring issues related to erosion and stream hydrology. A water quality testing lab allows visitors to analyze random water samples and make water management decisions based on the test results. Visitors can test for pH, chloride, and dissolved oxygen. Interactive computer stations allow visitors to explore various software and databases concerning water quality and related environmental issues.

Project Location: Cook County

Subgrantee: Chicago Academy of Sciences
2060 North Clark Street
Chicago, Illinois 60614

96-4(319)SR

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, and 1995. The project was a cooperative Section 319/314 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

96-5(319)ST

Title: Waukegan River National Monitoring Strategy (Phase 3)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in Federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

96-6(319)ST

Title: Northeastern Illinois Community Assistance Office

Purpose: This project provided training to Natural Resource Conservation Service regional staff on water quality regulations and technical issues. Furthermore, the project encouraged the provision of nonpoint source pollution control related technical assistance to appropriate local agencies and organizations in northeastern Illinois. The Natural Resources Conservation Service's Northeastern Illinois Community Assistance Office was established to serve the six county northeastern Illinois area. This office provided technical assistance to soil and water conservation districts, planning commissions, county departments, townships and municipalities in northeastern Illinois. In addition to direct technical assistance, the staff of this office provided information/education and training assistance. The major focus of the office was on erosion/sediment control, water quality, and natural resource management.

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

Subgrantee: USDA Natural Resource Conservation Service
1902 Fox Drive
Champaign, Illinois 61820

96-7(319)ME

Title: National NPS Pollution Information/Education Conference Proceedings

Purpose: This project printed the presentations from the National NPS Pollution Information/Education Conference and distributed the proceedings to registered participants at the conference.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“A National Conference - Nonpoint Source Pollution Information/Education Programs.” March 1997. Northeastern Illinois Planning Commission.

96-9(319)CT

Title: Phase 2 Modeling on Lake Pittsfield

Purpose: This project provided additional funding to implement the modeling component of the GIS Technology Support for the Targeted Watershed Approach project funded under Section 319 in FFY94. The Support Technology for Environmental Water & Agricultural Resource Decisions (STEWARD) and Agricultural Nonpoint Source Pollution (AGNPS) model were applied on a sub-watershed of the Lake Pittsfield (ILRDP) watershed. The purpose of the modeling was to 1) identify recommended best management practices (BMPs) that should be applied; 2) quantify pollutant loads under conditions before and after implementation of Section 319 BMPs; 3) evaluate the effectiveness of applied BMPs; and 4) determine the functional value of the models for these purposes.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
2204 Griffith Drive
Champaign, Illinois 61820-7495

Project Reports and Other Informational Materials:

“Investigation of the STEWARD Expert System for the Lake Pittsfield Watershed.” December 1998. Illinois State Water Survey.

“Modeling of the Lake Pittsfield Watershed Using the AGNPS-ARC/INFO Model.” December 1998. Illinois State Water Survey.

96-11(319)SR

Title: Nonpoint Source Pollution Awareness Exhibit

Purpose: A new exhibit was designed, constructed, and placed on display at the Shedd Aquarium to enhance the public’s understanding of the value and function of water resources, nonpoint source pollution and its impact on water quality, and what can be done to protect Illinois’ water resources. The exhibit includes an aquarium stocked with live fish and plant species native to Illinois as well as graphics, copy, and interactive materials that present information on nonpoint source pollution and methods for reducing nonpoint source pollution. A music video for the song “Environment is Everything” was developed to illustrate the causes and sources of nonpoint source pollution, its impact on water quality, and the need to protect water resources. The music video was routinely played at the Shedd Aquarium for viewing by the public.

Project Location: Cook County

Subgrantee: John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605

Project Reports and Other Informational Materials:

“Environment is Everything.” (music video, 4.5 min.) 1997. John G. Shedd Aquarium.

96-10(319)SR

Title: Evaluation for the Children’s Zoo

Purpose: The purpose of this project was to evaluate Brookfield Zoo visitors’ awareness of the environmental impact of agriculture. The evaluation will affect planning for the expansion and renovation of the Children’s Zoo.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
Brookfield Zoo
3300 Golf Road
Brookfield, Illinois 60513

96-12(319)CT

Title: Cache River Reforestation Project

Purpose: This project accelerated the conversion of environmentally sensitive croplands to forest through the planting of native hardwood species. The project was targeted toward fields designated as “prior converted cropland” or “farmed wetland” with an emphasis on plantings in riparian corridors which provide streambank stability and/or connect fragmented habitats. Technical assistance was also provided for the improvement of already existing timber stands along with an information/education program.

Project Location: Counties of Union, Johnson, Alexander, Pulaski, and Massac

Subgrantee: Shawnee Resource Conservation and Development Area
R.R. 6, Box 255
1305 North Carbon
Marion, Illinois 62959

Project Reports and Other Informational Materials:

“Cache River Reforestation Project – Phase 1 – Final Report.” March 17, 2000. Shawnee Resource Conservation & Development Area, Inc.

“Managing Your Forestland.” (25 min. Videotape) March 2000. Shawnee Resource Conservation & Development Area, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
612	Tree Planting	2,601.8 ac.	72,000	?	?

96-13(319)JC

Title: Tri-County Erosion, Sedimentation, and Stormwater Management Program

Purpose: This project initiated the execution of the multi-county soil erosion and sedimentation control program implementation plan and ordinance prepared with funding under a FFY90 Section 319 grant. Funding was used to finance staff to review local erosion and sedimentation control plans, perform inspections and other enforcement procedures, carry-out education and training functions, maintain control standards and technical guides, ensure intergovernmental cooperation, and evaluate program effectiveness.

Project Location: Counties of Peoria, Woodford, and Tazewell

Subgrantee: Tri-County Regional Planning Commission
100 North Main Street, Suite 301
East Peoria, Illinois 61611-2533

Project Reports and Other Informational Materials:

“Tri-County Erosion, Sediment & Storm Water Management Program – First Annual Report.” 1997. Tri-County Regional Planning Commission.

“Tri-County Erosion, Sediment & Storm Water Management Program – Second Annual Report.” 1998. Tri-County Regional Planning Commission.

96-14(319)ST

Title: North Fork Embarras Watershed Project

Purpose: This project protected and improved the water quality of the North Fork Embarras River (ILBEF05) watershed by reducing nonpoint source pollutants. A comprehensive sediment and nutrient reduction project was implemented that included watershed protection, information, and education programs. Upland BMPs installed included 33 grassed waterways, 25 sediment and nutrient retention structures, 3 critical area seedings, 3 water and sediment control basins, 2 terrace systems, and 13 grade stabilization structures. Eight streambank stabilization projects were installed on 2,373 linear feet of streambank on the main channel and its tributaries. These included one bendway weir project (consisting of seven weirs), one willow post planting, and six longitudinal peakstone toe protection projects.

Project Location: Counties of Jasper, Crawford, Edgar, Coles, Cumberland, and Clark

Subgrantee: North Fork Conservancy District
Post Office Box 7, 110 East Main
Casey, Illinois 62420

Project Reports and Other Informational Materials:

“North Fork Embarras Watershed Project.” March 2000. North Fork Conservancy District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,373 ft.	18,452	?	?
412	Grassed Waterway	44.81 ac.	12,374	?	?
638	Water & Sediment Control Basin	875 ft.	285	?	?
342	Critical Area Planting	4.5 ac.	3,276	?	?
600	Terrace	1,475 ft.	189.5	?	?
657	Wetland Restoration	2.7 ac.	440	?	?
410	Grade Stabilization Structure	13 (no.)	1,492.5	?	?
350	Sediment Basin	25 (no.)	7,225	?	?

96-15(319)JC

Title: Camp Creek Restoration and Watershed Management

Purpose: This project improved water quality through the implementation of conservation practices on upland cropland, hog lots, destabilized streambanks, and the provision of education to the watershed community. Water quality benefits were achieved through construction of 1,350 feet of terraces and diversions, 47 water and sediment control basins, 3.7 acres of grassed waterways, 11.9 acres of critical area seedings, and 450 feet of willow post plantings for the stabilization of streambanks along Camp Creek (ILDGI01).

Project Location: Brown County

Subgrantee: Brown County Soil and Water Conservation District
R.R. #4
Mt. Sterling, Illinois 62353

Project Reports and Other Informational Materials:

“Camp Creek Restoration and Watershed Management Project – Final Report.” December 21, 1998. Brown County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	450 ft.	490	?	?
412	Grassed Waterway	3.7 ac.	775	?	?
638	Water & Sediment Control Basin	26,335 ft.	8,586.5	?	?
600	Terrace	1,350 ft.	106.5	?	?

96-16(319)JC

Title: Milne Creek Phase 2 Project

Purpose: The City of Lockport continued the streambank stabilization of Milne Creek initiated with funding under Section 319 in FFY94. An additional 1,240 linear feet of streambank was stabilized using bio-engineering techniques (coconut rolls and A-jacks). Also, public education materials were developed and presented to advance the need for better care of the water resources in the area.

Project Location: Will County

Subgrantee: City of Lockport
222 East 9th Street
Lockport, Illinois 60441

Project Reports and Other Informational Materials:

“Milne Creek Stream Bank Stabilization Project – Final Report.” July 27, 1999. City of Lockport.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,240 ft.	67	57	113

96-17(319)JC

Title: Klein Creek Project

Purpose: This project stabilized 1,000 feet of eroding streambanks along Klein Creek (ILGBK05) using bioengineering techniques (lunkers, willow posts, vegetation, etc.) to reduce erosion and improve water quality. Local teachers were taught techniques for controlling nonpoint source pollution and stabilizing eroding streambanks. These teachers presented this knowledge to their grade school classes and students developed and implemented nonpoint source pollution control strategies to control streambank erosion.

Project Location: DuPage County

Subgrantee: Forest Preserve District of DuPage County
Fullersburg Woods Educational Center
3609 Spring Road
Oak Brook, Illinois 60521

Project Reports and Other Informational Materials:

“Klein Creek Stabilization Program – Final Report.” February 6, 2000. Forest Preserve District of DuPage County.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,000 ft.	10	10	20

96-19(319)CD

Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

96-20(319)SR

Title: Southeast Illinois Oil Brine Damage Reclamation Project

Purpose: This project demonstrated four (4) different cost-effective methods (organic matter, mineral application, plant materials, and composite test) for the reclamation of oil brine damaged sites to reduce nonpoint source pollution in the Wabash River (ILB07) and Saline River (ILAT05) watersheds. It is estimated that there is a total of 7,120 oil brine damaged sites within the project area. Runoff from these sites carry sediment, salinity, chlorides, and petroleum wastes. Four job sheets and an information packet were developed which describe materials, rates, and management techniques for use by affected landowners.

Project Location: Counties of Gallatin, Hamilton, Saline, & White.

Subgrantee: Shawnee Resource Conservation & Development Area, Inc.
Rural Route 6, Post Office Box 255
1305 North Carbon
Marion, Illinois 62959

Project Reports and Other Informational Materials:

“Southeast Illinois Brine Damage Task Force – Illinois EPA Section 319 – Oil Brine Remediation Project.” (brochure) 2000. Southeast Illinois Brine Damage Task Force.

“Southeast Illinois Brine Damage Reclamation Project – Final Report.” March 7, 2000. Southeast Illinois Brine Damage Task Force.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
544	Land Reconstruction, Currently Mined Land	20 ac.	?	?	?

96-21(319)ST

Title: Determining the Effective Discharges of Illinois Streams

Purpose: This project determined the effective discharges of Illinois streams so that these values can be used in guiding stream restoration projects. Effective discharge is the discharge (or range of discharges) that is responsible for transporting the comparatively largest fraction of the sediment load for that stream.

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Effective Discharge of Illinois Streams.” November 2002. Illinois State Water Survey.

96-22(319)ST

Title: Pittsfield National Monitoring Program

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, 1995, 1996, 1997, and 1998.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Evaluation of Sediment Delivery to Lake Pittsfield after Best Management Practice Implementation - National Monitoring Project Annual Report.” September 2000. Illinois State Water Survey.

96-23(319)ST

FFY 1997 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Honey Creek Watershed Project

Purpose: This project involved the construction of 25 large ponds, along with 6 riffles and stream barbs in tributary streams of Honey Creek (ILKCAG01) to provide increased dissolved oxygen while retaining silt, nutrients, and pesticides from immediately entering the stream. The project augmented conventional land and water treatment programs currently existing in the watershed through the construction of water holding basins in the extreme lower reaches of the side tributaries off the main stem of Honey Creek.

Project Location: Pike County

Subgrantee: Pike County Soil & Water Conservation District
1319 West Washington Street
Pittsfield, Illinois 62363

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
378	Pond	25 (no.)	14,880	5,041	10,080
584	Stream Channel Stabilization	?	?	?	?

97-1(319)JC

Title: North Fork Vermilion River Project

Purpose: Operators in the North Fork Vermilion River (ILBPG09) watershed were contacted to increase awareness and to help them adopt conservation measures. Best management practices (BMPs) were designed and constructed to reduce siltation and nutrient/pesticide transport. BMPs to be used in this project included 6,150 feet of terraces and 7.5 acres of waterways. Public meetings will be conducted to increase awareness to all citizens in the watershed.

Project Location: Vermilion County

Subgrantee: Vermilion County Soil & Water Conservation District
191 South Henning Road
Danville, Illinois 61832

Project Reports and Other Informational Materials:

“North Fork Vermilion River Project – Final Report.” February 28, 1999. Vermilion County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
600	Terrace	6,150 ft.	989	?	?
412	Grassed Waterway	7.5 ac.	240	?	?

97-2(319)JC

Title: Upper Sangamon River Basin Water Quality Improvement Project

Purpose: This project reduced the amount of nonpoint source (NPS) pollution in the Upper Sangamon River (ILE28) basin and Lake Decatur (ILREA) by working in direct cooperation with the majority of the basin’s land use decision makers. The two target NPS pollutants were nutrients and sediment. Through subcontracts with local soil and water conservation districts one-on-one on-site technical and educational assistance was provided to landowners throughout the watershed. Cost-share funds were used to implement agricultural best management practices including GIS/GPS w/fertilizer monitors and two wetlands.

Project Location: Macon County

Subgrantee: City of Decatur
#1 Gary K. Anderson Plaza
Decatur, Illinois 62523-1196

Project Reports and Other Informational Materials:

“Upper Sangamon River Basin Water Quality Improvement Project – Final Report.” August 31, 1999. Macon County SWCD.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	3.0 ac	?	?	?
590	Nutrient Management	40,183 ac.	?	?	?

97-3(319)JC

Title: Addison Creek Streambank Stabilization Project

Purpose: This project stabilized approximately 2,720 feet of eroding streambanks along Addison Creek (ILGLA01) in the city of Northlake. The project included the installation of 715 feet of rip rap and 700 feet of lunkers on the north bank and 455 feet of rip rap and 850 feet of lunkers on the south bank to reduce erosion and improve water quality.

Project Location: Cook County

Subgrantee: Addison Creek River Conservation District
55 East North Avenue
Northlake, Illinois 60164

Project Reports and Other Informational Materials:

“Addison Creek Streambank Stabilization Project – Final Report.” August 1999. Christopher B. Burke Engineering, LTD.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,720 ft.	209	178	356

97-4(319)JC

Title: Streambank Stabilization of Spring Brook No. 1

Purpose: This project stabilized eroding streambanks along 4,000 feet of Spring Brook No.1 (ILGBKA), a tributary to the West Branch of the DuPage River using bioengineering techniques (i.e., re-establishment of native riparian vegetation, brush mattress, vegetated geogrid with fiber roll, etc.) to reduce erosion and improve water quality.

Project Location: DuPage County

Subgrantee: DuPage County Department of Environmental Concerns
421 North County Farm Road
Wheaton, Illinois 60187

Project Reports and Other Informational Materials:

“Spring Brook No. 1 Streambank Stabilization Project – Final Report.” January 1999. DuPage County Department of Environmental Concerns.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	4,000 ft.	528	449	898

97-6(319)JC

Title: TAM Golf Course Streambank Stabilization

Purpose: This project stabilized approximately 1,715 feet of eroding streambanks along the North Branch of the Chicago River (ILHCC08) using bioengineering techniques (A-jacks, Bar Root River Birch, Red Twig Dogwood, prairie and wetland plants) and the creation of a 1.5 acre wetland to reduce erosion and improve water quality. An educational stand was installed to describe the wetland and streambank stabilization practices.

Project Location: Cook County

Subgrantee: Niles Park District
7877 Milwaukee Avenue
Niles, Illinois 60714

Project Reports and Other Informational Materials:

“TAM Golf Course Stream Bank Stabilization Project – Final Report.” June 1999. Niles Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,715 ft.	132	112	224
800	Urban Stormwater Wetland	1.5 ac.	?	?	?

97-7(319)SR

Title: Langendorf Pond Retrofit to Reduce Nonpoint Source Pollution

Purpose: This project involved stream restoration activities and modification of an existing 2.5 acre impoundment (Langendorf Pond) on Flint Creek (ILDTZS01) to reduce nonpoint source pollution and enhance aquatic habitat. The modifications included 1) dam removal to restore the pond to a 300 foot long meandering stream channel and a wetland area, 2) installation of biotechnical streambank stabilization techniques along 360 feet of Flint Creek, 3) removal of a petting zoo, 4) establishment of a buffer of native prairie vegetation around the riparian area, and 5) installation of a 360 foot long swale to filter parking lot runoff. An interpretive signage system and educational program was also implemented to educate the public about nonpoint source pollution and the ecological benefits of the project.

Project Location: Lake County

Subgrantee: Village of Barrington
 Department of Public Works
 206 South Hough Street
 Barrington, Illinois 60010

Project Reports and Other Informational Materials:

“Langendorf Pond Retrofit to Reduce Nonpoint Source Pollution – A Project to retrofit an Onstream Impoundment in the Flint Creek Watershed.” April 2000. Village of Barrington.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
500	Obstruction Removal	1 (no.)	?	?	?
009	Stream Channel Restoration	300 ft.	2	1	3
580	Streambank/Shoreline Protection	360 ft.	4	3	7
657	Wetland Restoration	2.06 ac.	?	?	?
472	Livestock Exclusion	0.5 ac.	?	?	?
835	Urban Filter Strip	360 ft.	?	?	?

97-8(319)ST

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP).

This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, 1995, and 1996. The project was a cooperative Section 319/314 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

97-9(319)ST

Title: Waukegan River National Monitoring Strategy (Phase 4)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River (ILQ01). A videotape was also produced which documents the monitoring program and the conditions of the physical and biological enhancements achieved on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Biological and Physical Monitoring of Waukegan River Restoration Efforts in Biotechnical Bank Protection and Pool/Riffle Creation - National Watershed Monitoring Project Annual Report.” May 1999. Illinois State Water Survey.

97-10(319)ST

Title: Des Plaines Streambank Restoration Project

Purpose: This project stabilized approximately 4,000 feet of eroding streambanks along the Des Plaines River (ILG30) using bioengineering techniques to reduce erosion and improve water quality. Approximately 2,600 feet of streambank were stabilized through selective brush removal, weed control, and planting of native vegetation. Live stakes (450 feet) and live fascines (350 feet) were also installed. The slope was reconstructed on a 600 foot length of streambank. Because of the high potential for erosion, the fine-grained sands were removed from this site during reconstruction. An organic clay cover was placed over the site and covered with soil and an erosion control blanket. The area was seeded and live stakes and posts installed. However, the clay cover interfered with the flow of groundwater into and out of the bank. Hydrostatic pressure exceeded the material strength, causing the

bank to fail and be washed away by the river. Since the failure, vegetation was re-established and the 600 foot site was stabilizing. A catch basin, storm sewer, and rip rap outlet was also installed at a point of discharge of surface runoff into the river that was experiencing severe erosion. The project included an education/information component in which college students and local community residents were taught techniques for controlling nonpoint source pollution and stabilizing eroding streambanks. A videotape of the project was developed along with educational seminars and news releases.

Project Location: Cook County

Subgrantee: Oakton Community College
1600 East Golf Road
Des Plaines, Illinois 60016-1268

Project Reports and Other Informational Materials:

“DesPlaines Streambank Restoration Project – Final Report.” October 31, 2000. Oakton Community College.

“Banking on Our Future.” (13 min. videotape) October 31, 2000. Oakton Community College.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	4,000	95	80	160
945	Subsurface Drain (Catch Basin)	1 (no.)	?	?	?

97-11(319)SR

Title: Alternative Pavement Deicing Materials Brochure

Purpose: An educational/technical assistance brochure was developed on alternatives to and appropriate uses of pavement deicing materials. The brochure addressed adverse environmental effects, alternative deicing materials, alternatives to deicing (e.g., abrasives, plowing), application rates and conditions, costs of deicing, and environmental costs of deicing. The brochure was distributed to affected parties representing highway agencies, local governments, and owners of commercial land, and made available to members of the general public and interest groups.

Project Location: Statewide

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Pavement Deicing – Minimizing the Environmental Impacts.” Brochure. April 1998. Northeastern Illinois Planning Commission.

97-12(319)ME

Title: Jefferson County Outdoor Education Facility

Purpose: This project educated the citizens of Jefferson County about nonpoint source (NPS) pollution and the use of best management practices (BMPs) to control it. An existing outdoor educational facility was enhanced by using BMPs to promote the control of NPS pollution. A “Neighbor to Neighbor” program was implemented to strengthen the network of landowners who practice water quality protection and to promote the use of BMPs by others. Selected BMPs (i.e., filter strips, terraces, grassed waterways, ponds, streambank stabilization, etc.) were implemented through the “Neighbor to Neighbor” program to reduce NPS pollution in the Casey Fork (ILNJ07) watershed. Also, NPS pollution was reduced through the application of landscape waste and compost materials on oil brine damaged sites.

Project Location: Jefferson County

Subgrantee: Jefferson County Soil & Water Conservation District
109 Shiloh Drive
Mt. Vernon, Illinois 62864

Project Reports and Other Informational Materials:

“Jefferson County Outdoor Educational Facility – Final Report.” May 2000. Jefferson County Soil & Water Conservation District.

Outdoor Educational Facility Self Guided Tour & Education Manual – Primary & Middle Grades.” May 2000. Jefferson County Soil & Water Conservation District.

Outdoor Educational Facility Self Guided Tour & Education Manual – High School & Adult.” May 2000. Jefferson County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
543	Land Reconstruction, Abandoned Mine Land	1.5 ac.	?	?	?

97-13(319)ST

Title: Glen Shoals Restoration Project

Purpose: The project included the stabilization of approximately 3,605 feet of eroding shoreline along Glen Shoals Lake (ILROL) using bioengineering techniques (A-jacks, willow posts, vegetation, etc.).

Project Location: Montgomery County

Subgrantee: Montgomery County Soil & Water Conservation District
1621 Vandalia Road
Hillsboro, Illinois 62049

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	3,605 ft.	195	166	332

97-14(319)ST

Title: Willoway Brook Streambank Stabilization Project

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of approximately 1,280 feet of eroding streambanks along Willoway Brook, a tributary of the East Branch DuPage River (ILBGL10), located on the Morton Arboretum property. Bioengineering techniques (i.e., lunkers, A-jacks, geogrid, minor stream re-grading, vegetative stabilization, fiber rolls) were used. Rock riffles were also installed in five locations. An educational program was implemented to present visitors with information on topics including water pollution control, best management practice implementation, and land use impacts on water resources.

Project Location: DuPage County

Subgrantee: The Morton Arboretum
4100 Illinois Route 53
Lisle, Illinois 60532-1293

Project Reports and Other Informational Materials:

“Willoway Brook Streambank Stabilization Project – Final Report.” December 2001. Earth Tech.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,280 ft.	120	102	205
584	Stream Channel Stabilization	1,280 ft.	40	34	68

97-17(319)CD

Title: Four Lakes Village Streambank Stabilization Project

Purpose: This project stabilized 1,135 feet of eroding streambanks along a segment of the East Branch of the DuPage River (ILGBL10) using bioengineering techniques to reduce erosion and improve water quality. A combination of A-jacks and gabion baskets were used to stabilize the toe of the streambank where a majority of high velocity flows occur. Above the A-jacks and gabion baskets, the soil was back-filled, covered with an erosion control blanket and seeded with native vegetation.

Project Location: DuPage County

Subgrantee: The Conservation Foundation
10S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

“Four Lakes Streambank Stabilization Project.” May 8, 2000. The Conservation Foundation.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,135 ft.	125	106	212

97-18(319)JC

Title: Stream Classification & Fish Sampling Protocols

Purpose: This project developed a system to delineate segments of Illinois streams and classify each segment into one of several possible categories or types developed guidelines for effectively sampling fish communities in Illinois streams, using electrofishing gear.

Project Location: Statewide

Subgrantee: Illinois History Survey
Center of Aquatic Ecology
607 E. Peabody Drive
Champaign, Illinois 61820

97-20(319)GG

Title: Initial Site Evaluation (ISE) Procedure for Wetland Creation or Restoration

Purpose: This project involved the development of an Initial Site Evaluation (ISE) Procedure that can be used to evaluate the suitability of a site for wetland creation or restoration. The Report describes a rapid, transferable, standardized, and cost-effective procedure for evaluating a site’s hydrogeologic potential for supporting a

healthy wetland system. The Report identifies the hydrogeologic features along with the associated ranking or appraisal criteria and guidelines that should be used to assess a site's potential for successful wetland creation or restoration. The report contains guidance that will assist other users of the procedure, although it is expected that each user will differ in experience and may not be able to perform all aspects of the procedure.

Project Location: Statewide

Subgrantee: Illinois State Geological Survey
615 East Peabody Drive
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

"A Hydrogeologic Procedure for Evaluating Wetland Restoration and Creation Sites." February 20, 2003. Illinois State Geological Survey.

97-21(319)ST

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Association of Illinois Soil & Water Conservation District (AISWCD) helped counties facilitate the enrollment process of the Conservation reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conduct field visits to determine program eligibility. The county SWCDs completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtain the necessary producer signatures on required documents, and complete all state CREP enrollment forms. The county SWCDs coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of Bureau, Christian, Fulton, Knox, Marshall, Menard, Montgomery, Putnam, Sangamon, & Shelby

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

97-22(319)JC

FFY 1998 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Cache River Watershed No Till Project

Purpose: This project was aimed at limited resource farmers operating small farms within the Cache River (ILIX04) watershed. The objective of increasing no till crop production

by these hard to reach operators by 4,000 acres annually was accomplished by placing a no till drill in the Johnson, Pulaski-Alexander, and Union soil and water conservation districts. Education and technical assistance was provided through a Conservation Tillage Specialist employed via contract with the Shawnee RC & D.

Project Location: Johnson, Pulaski-Alexander, and Union Counties

Subgrantee: Shawnee Resource Conservation & Development Area
R.R. 6, Box 255, 1305 N. Carbon
Marion, Illinois 62959

Project Reports and Other Informational Materials:

“Cache River Watershed No Till Project – Final Report.” April 4, 2000. Shawnee Resource Conservation & Development Area.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
329	Conservation Tillage	4,435.1 ac.	55,382	?	?

98-1(319)JC

Title: Phase 2 Implementation of Flint Creek Watershed Management Plan

Purpose: The purpose of this project was to continue the implementation of the Flint Creek Watershed Management Plan and demonstrate measures to address the nonpoint source pollution impacts of urban runoff and streambank erosion. Seven riffles were installed and approximately 2,400 feet of Flint Creek (ILDZS01) were stabilized through a residential section of Barrington. An existing dry bottom detention basin was retrofitted to create a wetland detention basin in Lake Zurich to capture urban runoff pollutants and attenuate flow rates to Flint Creek. Approximately 800 feet of Flint Creek were stabilized along a reach of stream adjacent to Citizens for Conservation property.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Flint Creek Watershed Restoration Projects – Final Report .” April 2000. Northeastern Illinois Planning Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	3,200 ft.	108	108	216
800	Urban Stormwater Wetland	1 (no.)	?	6	22

98-2(319)SR

Title: Waukegan River Wetland Restoration Project

Purpose: This project restored a 1/2 acre wetland adjacent to the Waukegan River (ILQ01) in Washington Park to reestablish the natural function and reduce nonpoint source pollution impacts. The project also included the stabilization of 300 feet of eroding streambank on the Waukegan River using bioengineering techniques. An interpretive observation station was constructed overlooking the site to present information about the project and nonpoint source pollution.

Project Location: Lake County

Subgrantee: Waukegan Park District
2000 Belvidere Street
Waukegan, Illinois 60085

Project Reports and Other Informational Materials:

“Waukegan River Wetland Restoration – Final Report.” December 2000. Waukegan Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	0.5 ac.	?	?	2
580	Streambank/Shoreline Protection	300 ft.	32	32	64

98-3(319)ST

Title: Mitchell Park Ravine Watershed Project

Purpose: The project focused on soil erosion control and water quality in an urban watershed tributary to the Mississippi River and determined to be high priority by the East Moline Stormwater Committee. Proven soil erosion and sediment control and stormwater management approaches planned in consultation with the NRCS were utilized. Practices included grade stabilization structures, streambank stabilization, stormwater detention basins, critical area treatment, and permanent vegetative cover.

Project Location: Rock Island County

Subgrantee: City of East Moline
912 16th Avenue
East Moline, Illinois 61244

Project Reports and Other Informational Materials:

“Mitchell Park Ravine Watershed Project – Final Report.” July 2001. Landmark Engineering Group, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
410	Grade Stabilization	2 (no.)	?	?	?
350	Sediment Basin	3 (no.)	?	?	?
910	Rock Outlet Protection	1 (no.)	?	?	?
840	Grassed Lined Channel	? ac.	?	?	?
580	Streambank/Shoreline Protection	? ft.	?	?	?

98-5(319)ST

Title: Ground Water Protection through Pollution Prevention

Purpose: The purpose of this project was to impact water quality as it relates to ground water resources in rural areas in the most positive way by implementing viable prevention programs on the local level. The scope of this project was integrated with ongoing activities related to the Illinois Department of Agriculture’s (IDOA) Ground Water Protection Program, Illinois FarmAsyst support mechanisms, as well as other related water quality efforts.

Project Location: Statewide

Subgrantee: Illinois Department of Agriculture
Post Office Box 19281
Springfield, Illinois 62794-9281

98-6(319)JC

Title: Reducing Herbicides with GPS Application

Purpose: Global Positioning System (GPS) equipment was mounted on an ordinary field sprayer and used to apply herbicides to cropland at four (4) field demonstrations over a two year period. The project was conducted in the Little Cache River (ILADDB01) watershed. This was done to demonstrate how GPS can reduce the amount of herbicide and still get acceptable crop production results. Field days were held at the demonstration area and special edition newsletters were distributed to promote and highlight this project.

Project Location: Johnson County

Subgrantee: Johnson County Soil & Water Conservation District
807 North 1st Street
Vienna, Illinois 62995

Project Reports and Other Informational Materials:

“Reducing Herbicides with GPS Applications – Final Report.” May 1, 2000. Johnson County Soil & Water Conservation District.

98-7(319)ST

Title: Shelby Creek Restoration and Watershed Management Project

Purpose: This project improved the water quality of Shelby Creek and the LaMoine River (ILDG01) through the implementation of conservation practices on upland cropland and destabilized streambanks. Implementation of best management practices included 1,700 feet of terraces and diversions, 104 water and sediment control basins (19,095 feet), 1.5 acres of grassed waterways, and 225 feet of streambank stabilization with willow posts. The project also provided education to the watershed community through news releases, newsletters, and tours.

Project Location: Brown County

Subgrantee: Brown County Soil & water Conservation District
Rural Route #4
Mt. Sterling, Illinois 62353

Project Reports and Other Informational Materials:

“Shelby Creek Restoration & Watershed Management Project – Final Report.” July 7, 2000. Brown County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
600	Terrace	1,700 ft.	108	?	?
638	Water & Sediment Control Basin	19,905 ft.	2,339	?	?
412	Grassed Waterway	1.5 ac.	247	?	?
580	Streambank/Shoreline Protection	225 ft.	162	?	?

98-8(319)JC

Title: Model Watershed for Water Quality

Purpose: This project provided a hands-on opportunity for the public to learn about watershed management by viewing best management practices (BMPs) in a defined watershed. In addition to the BMPs, information on signs and handout materials are available that will foster educated decisions regarding individual actions that will help improve water quality. Complete with a flowing stream, a wetland and a lake, a new

exhibit was constructed on the grounds of the Illinois State Fair in 2001. Visitors can stroll through a 13-station miniature "watershed". Approximately one acre in size, the watershed park is located not far inside the Fair's main gates, behind and below the Department of Agriculture headquarters. Its stream, wetland and lake are all designed to provide fun and relaxation along with information about different land uses and environments in Illinois. A mix of static, hands-on and electronic displays was offered. Illustrating such diverse topics as urban stormwater runoff, geology, mined land and beneficial bugs, Watershed Park offers fair visitors benches, drinking water and a water drop mascot named "Splash." Recognizing the Fair's historic role as an agriculture exposition, there were stations illustrating farm and home safety, Illinois soil types, soil conservation and pasture management.

Project Location: Sangamon County

Subgrantee: Illinois Department of Agriculture
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-9281

Project Reports and Other Informational Materials:

"Model Watershed for Water Quality – Final Report." January 31, 2002. Illinois Department of Agriculture.

"Watershed Park. Where all of us make a difference!" (brochure) August 2001. Illinois Department of Agriculture.

98-9(319)CD

Title: Old Tavern Park Shoreline Stabilization Project

Purpose: The purpose of this project was to stabilize 1,250 linear feet of shoreline and create approximately 9,000 square feet of buffer zone in and around the retention basin located within Old Tavern Park. Shoreline stabilization was accomplished by using bioengineering techniques and the buffer zone will consist of a "no mow" grass mix and a low growing wet prairie mix. The project was located in the East Branch of the DuPage River (ILGBL05).

Project Location: DuPage County

Subgrantee: Lisle Park District
1825 Short Street
Lisle, Illinois 60532

Project Reports and Other Informational Materials:

"Old Tavern Park Shoreline Stabilization Project – Final Report." April 25, 2000. Lisle Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank /Shoreline Protection	1,250	6	5	11

98-10(319)ST

Title: Streambank Restoration on the West Branch, DuPage River

Purpose: This project stabilized eroding streambanks along two (2) sites on the West Branch, DuPage River (ILGBK05) (610 feet), along three (3) sites on the East Branch, DuPage River (ILGBL10) (1,315 feet), and along one (1) site on Keeneyville Ditch, a direct tributary to Mallard Lake (ILWGX) (1,140 feet). The Project utilized bioengineering techniques (A-jacks, lunkers, brush clearing, re-grading, and native vegetation) to stabilize the streambank and enhance water quality, improve riparian corridor and restore wildlife habitat. The proposal also included a significant educational component geared towards the general public, stream users, streamside landowners, municipalities, and local schools.

Project Location: DuPage County

Subgrantee: The Conservation Foundation
10 S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

“Streambank Restoration on West Branch DuPage River - DuPage County, IL. – Final Report.” April 12, 2000. The Conservation Foundation.

“Streambank Stabilization: Soft Solutions Produce Hard Results.” (11 min. videotape) April 2000. The Conservation Foundation.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	3,065 ft.	81	70	137

98-11(319)CD

Title: Greater Eliza Watershed Project

Purpose: The purpose of this project was to protect and improve the water quality of the Eliza Creek (ILMWD01) watershed by reducing nonpoint source pollutants. The project provided cost-share assistance to watershed landowners to implement a variety of upland and floodplain best management practices (i.e., sediment basins, ponds, terraces, waterways, grade stabilization structures, water and sediment control basins, vegetative filter strips). An educational program was also implemented to

educate the public about the importance of streambank stabilization and nonpoint source pollution.

Project Location: Mercer County

Subgrantee: Mercer County Soil & Water Conservation District
308 Southeast 8th Avenue
Aledo, Illinois 61231

Project Reports and Other Informational Materials:

“Greater Eliza Watershed Project – Final Report.” August 1, 2001. Mercer County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	2,159	?	?
378	Pond	4 (no.)	670.6	?	?
393	Filter Strip	1.5 ac.	73.5	?	?
410	Grade Stabilization Structure	4 (no.)	741.4	?	?
412	Grassed Waterway	6.4 ac	777	?	?
600	Terrace	7,550 ft.	732.4	?	?
638	Water & Sediment Control Basin	4,835	2,315.6	?	?

98-12(319)JC

Title: Mackinaw River Project (Phase 2)

Purpose: This project continued to build widespread community and individual support for the adoption of best management practices consistent with the consensus derived statement of objectives and strategies of the Mackinaw River Watershed Management Plan. The project focuses on education/outreach and the placement of highly visible best management practices at locations throughout the watershed. The project implemented four wetland restoration projects (20 acres); two sediment retention basins (5 acres); two streambank stabilization projects (1,100 feet) using re-grading, willows, and native vegetation; and woodland management (1.5 acres).

Project Location: Mason, Tazewell, Woodford, McLean, & Ford Counties

Subgrantee: The Nature Conservancy
1201 South Main Street
Eureka, Illinois 61530

Project Reports and Other Informational Materials:

“Mackinaw River Project – Phase 2 – Final Report.” September 30, 2001. The Nature Conservancy.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	2 (no.)	?	?	?
580	Streambank/Shoreline Protection	1,100 ft.	48	41	82
657	Wetland Restoration	20 ac.	?	?	?
666	Woodland Improvement	1.5 ac.	?	?	?

98-13(319)CD

Title: Waukegan River National Monitoring Program (Phase 5)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River (ILQ01). A videotape was also produced which documents the monitoring program and the conditions of the physical and biological enhancements achieved on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Biological & Physical Monitoring of Waukegan River Restoration Efforts in Biotechnical Bank Protection & Pool/Riffle Creation – National Watershed Monitoring Project.” May 2000. Illinois State Water Survey.

98-14(319)ST

Title: Pittsfield National Monitoring Program

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, 1995, 1996, and 1997.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

“Evaluation of Sediment Delivery to Lake Pittsfield after Best Management Practice Implementation – National Monitoring Project. September 1999. Illinois State Water Survey.

98-15(319)ST

Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

98-16(319)BL

Title: Northeastern Illinois Community Assistance Office

Purpose: This project provided training to Natural Resource Conservation Service regional staff on water quality regulations and technical issues. Furthermore, the project encouraged the provision of nonpoint source pollution control related technical assistance to appropriate local agencies and organizations in northeastern Illinois. The Natural Resources Conservation Service’s Northeastern Illinois Community Assistance Office was established to serve the six county northeastern Illinois area. This office provided technical assistance to soil and water conservation districts, planning commissions, county departments, townships and municipalities in northeastern Illinois. In addition to direct technical assistance, the staff of this office provided information/education and training assistance. The major focus of the office was on erosion/sediment control, water quality, and natural resource management.

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

Subgrantee: USDA Natural Resource Conservation Service
603 East Diehl Road, Suite 131
Naperville, Illinois 60563-7808

98-17(319)SR

Title: Water Quality Enhancement Training

Purpose: A USDA – Natural Resources Conservation Service (NRCS) detailed a soil conservationist to the Illinois EPA’s Bureau of Water to assist the Illinois EPA in implementing Illinois’ Nonpoint Source Management Program. This NRCS employee 1) facilitated the integration of NRCS programs such as EQIP with the Illinois EPA’s watershed management planning program; 2) provided technical support in the development of program cross-training modules for staff of the Illinois EPA, NRCS, soil and water conservation districts, and the Illinois Farm Bureau; 3) provided updates on activities associated with the NRCS Watershed Science Institute, Water Science and Technology Team, Wetland Science Institute, and other special groups of the NRCS having activities impacting water quality and watershed planning; 4) assisted in Illinois EPA efforts to further promote the state water quality focus group under the guidance of the Natural Resources Coordinating Council and Watershed Management Committee; 5) trained Illinois EPA, NRCS, SWCDs, and the Illinois Farm Bureau in the use of NRCS Resource Planning Guidebook and updates; 6) incorporated use of the NRCS’s nine steps of planning for watershed planning; etc.

Project Location: Statewide

Subgrantee: USDA – Natural Resources Conservation Service
1902 Fox Drive
Champaign, Illinois 61820

98-18(319)SR

Title: Roosevelt Park Pond & Waukegan River Restoration

Purpose: This project included the design and installation of an interpretive signage and pathway, streambank (rock boulders with vegetation) and wetland restoration techniques (modification and installation of two riffles, wetland planting, deepen the existing forebay area) on the South Branch of the Waukegan River (ILQ01) by the retrofit of the existing Roosevelt Park sediment basin. These stream and wetland restoration efforts helped to improve water quality, create wildlife habitat, and provide for environmental education opportunities.

Project Location: Lake County

Subgrantee: Waukegan Park District
2000 Belvidere Street
Waukegan, Illinois 60085

Project Reports and Other Informational Materials:

“Roosevelt Park Pond/Waukegan River Restoration Project.” December 2004. Waukegan Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,135 ft.	24	21	41
584	Stream Channel Stabilization	500 ft.	?	?	?
800	Urban Stormwater Wetland	1 (no.)	?	701	2,354
835	Urban Filter Strip	1 ac.	?	?	?
870	Level Spreaders	2 (no.)	?	18	124

98-19(319)ST

Title: Jacksonville Branch Restoration Project – Phase 1

Purpose: This project installed best management practices (BMPs) along 1,960 feet of bank on Jacksonville Branch, a tributary to Jacksonville Branch, and a side channel reservoir (Lower Lagoon) of Jacksonville Branch (ILELA11) located at Washington Park in Springfield, Illinois. The BMPs were designed to arrest streambank and shoreline erosion and reduce nonpoint source pollution while enhancing aquatic habitat and aesthetics. The project included an educational component to inform residents and local government representatives about the project and nonpoint source pollution through a public meeting and signs.

Project Location: Sangamon County

Subgrantee: Springfield Park District
2500 South 11th Street
Springfield, Illinois 62703

Project Reports and Other Informational Materials:

“Washington Park Lower Lagoon Streambank Stabilization – Final Report.” October 2004. Springfield Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,960 ft.	85	72	144
910	Rock Outlet Protection	1 (no.)	?	?	?

98-20(319)ST

Title: Lake Pittsfield Shoreline Restoration Project

Purpose: This project stabilized approximately 2,100 feet of eroding shoreline along Lake Pittsfield (ILRDP) and established, where possible, a buffer of native vegetation along this segment of shoreline to reduce erosion, filter runoff, and enhance aquatic habitat.

Project Location: Pike County

Subgrantee: City of Pittsfield
 215 North Monroe Street
 Pittsfield, Illinois 62363

Project Reports and Other Informational Materials:

“Lake Pittsfield Shoreline Restoration Project – Final Report.” May 2004. Benton & Associates, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,100 ft.	35	29	59

98-21(319)ST

Title: Willoway Brook Streambank Stabilization Project – Phase 2

Purpose: This project stabilized approximately 1,050 feet of eroding streambank along Willoway Brook located in the Morton Arboretum. The streambank was stabilized using bioengineering techniques to reduce erosion and improve water quality. Willoway Brook is a tributary of the East Branch DuPage River (ILGBL10). The project included reshaping the streambank, erosion control blankets, native forbs and woody plants, vegetated geogrids, and fifteen rock riffles.

Project Location: DuPage County

Subgrantee: The Morton Arboretum
 4100 Illinois Route 53
 Lisle, Illinois 60532-1293

Project Reports and Other Informational Materials:

“Willoway Brook Streambank Stabilization Project – Phase 2.” November 2, 2004. Landscape Resources, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
584	Stream Channel Stabilization	1,050 ft.	59	50	101

98-22(319)CD

Title: Lakeshore & Streambank Litter Collection Assistance Program

Purpose: This project provided financial assistance to selected applicants to conduct lakeshore and streambank clean-up events. Local organizations that have

previously conducted a lakeshore or streambank clean-up event were eligible to participate. The local sponsor was given up to \$2,000 to help conduct their clean-up event. The local sponsor could use the funds for event promotion, event equipment or disposal fees.

Project Location: Statewide

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:

“Streambank Cleanup and Lakeshore Enhancement, SCALE 2003.” June 2004. Illinois Environmental Protection Agency.

“Pilot “Streambank Cleanup And Lakeshore Enhancement” Program, SCALE.” July 2005. Illinois Environmental Protection Agency.

98-23(319)CD

FFY 1999 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Palzo Surface Mine Project

Purpose: This project addressed surface mine drainage entering Sugar Creek (ILATHG01) from the abandoned portion of the Palzo Mine site. Sugar Creek is a tributary to the Saline River. The Palzo Surface Mine site has severely impacted water quality by perennially draining water of unacceptably high pH, acidity, total iron, and total manganese into the creek. The Illinois Abandoned Mine Lands Reclamation Division designed, constructed and supervised the construction and implementation of structures and techniques to remediate both surface and groundwater nonpoint source drainage into receiving waters. The project reclaimed 60 acres by grading spoil ridges to encourage surface runoff and constructing a reduced-permeability cap to further reduce infiltration, thereby reducing acid groundwater volumes and acid mine seepage. Use of an alkaline material for construction of the cap also provided some treatment to any rainfall that did infiltrate the area.

Project Location: Williamson County

Subgrantee: IDNR – Abandoned Mine Lands Reclamation Division
1907 A Industrial Park Drive
Marion, Illinois 62959

Project Reports and Other Informational Materials:

“Palzo Surface Mine Reclamation Project.” October 28, 2003. Illinois Department of Natural Resources.

99-2/1(319)JC

Title: Indian Lake Festival (Dragonfly Marsh Opening)

Purpose: In cooperation with the Illinois EPA, the Brookfield Zoo held a celebration on August 14, 1999 for the official opening of the "Dragonfly Marsh" exhibit, developed with Section 319 funds under fiscal years 1995 and 1996. The celebration was designed to 1) announce the opening of the "Dragonfly Marsh" exhibit, 2) recognize the participants in the exhibit's creation, 3) explain the exhibit's purpose and the importance of nonpoint source pollution control and wetland protection, 4) encourage continued educational activities, and 5) promote cooperation among public and private groups for enhance environmental awareness programs. Attendance at the celebration was by invitation only for selected representatives of environmental organizations, educational institutions, businesses, and governmental agencies.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
Brookfield Zoo
3300 Golf Road
Brookfield, Illinois 60513

Project Reports and Other Informational Materials:

"Salt Creek Wilderness, Indian Lake, Dragonfly Marsh Opening – Final Report." March 2000. Brookfield Zoo.

99-2(319)SK

Title: Explore! A Child's Nature

Purpose: The Brookfield Zoo designed the "Explore! A Child's Nature" exhibit to present key concepts and interactive experiences which will highlight man's relationships with animals and nature; examine the ecological, economic, and philosophical connections between people and nature. Information on nonpoint source pollution and related water quality issues was incorporated into the exhibit. The exhibit communicates the impacts of nonpoint source pollution, the importance of water quality protection, and what can be done to minimize nonpoint source pollution and protect water quality.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
Brookfield Zoo
3300 South Golf Road
Brookfield, Illinois 60513

99-3(319)JW

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Cass County Soil & Water Conservation District (SWCD) facilitated the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conduct field visits to determine program eligibility. The Cass County SWCD completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtain the necessary producer signatures on required documents, and complete all state CREP enrollment forms. The Cass County SWCD coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of Cass & Schuyler

Subgrantee: Cass County SWCD
652 South Main Street
Virginia, Illinois 62691

99-4(319)JC

Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

99-5(319)BL

Title: North Branch Chicago River Watershed Project – Phase 2

Purpose: Project partners implemented a variety of BMPs within the watershed. The types of BMPs were identified in the North Branch Chicago River (ILHCC08) Watershed management plan. In addition, the project partners continued to implement an outreach program for adults and children focusing on nonpoint source pollution control and water quality. The applicant investigated and documented the need for

changes to local administrative policy, procedure and regulations to meet the plan's goals and objectives.

Project Location: Counties of Cook and Lake

Subgrantee: Friends of the Chicago River
407 S. Dearborn Street, Suite 1580
Chicago, Illinois 60605

Project Reports and Other Informational Materials:

“North Branch Chicago River Project – Final Report.” December 15, 2003. Friends of the Chicago River.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
010	Oil & Grit Separator	4 (no.)	?	?	2
580	Streambank /Shoreline Protection	13,050 ft.	1,751	1,738	3,472
581	Ditch Stabilization	350 ft.	?	6	20
584	Stream Channel Protection	3,170 ft.	286	286	752
657	Wetland Restoration	157 ac.	?	2	2
800	Urban Stormwater Wetland	1 (no.)	?	3	8
835	Urban Filter Strip	1 ac.	?	?	?
840	Grassed Line Channel	1 ac.	?	?	?
910	Rock Outlet Protection	1 (no.)	?	?	?

99-6(319)CD

Title: East Branch DuPage River WRAS Implementation – Phase 1

Purpose: Best management practices (BMPs) were installed in the East Branch DuPage River (ILGBL10) watershed to reduce nonpoint source (NPS) pollution. An existing storm sewer was “day lighted” and the flow redirected through a constructed wetland (0.69 ac.) before discharging to the East Branch. Both banks of a concrete lined channel were removed along a 1,400-foot segment of the East Branch DuPage River and a more natural stream channel restored as another urban runoff BMP. An existing detention pond was converted into a 1.65-acre stormwater wetland for enhanced pollutant removal. NPS pollution was reduced on Lacy Creek through approximately 6,902 ft. of bioengineering streambank stabilization, a 25-foot wide riparian buffer, and the retrofit of an in-stream pond to restore a 1.15-acre wetland system. Bioengineering techniques were applied to stabilize approximately 2,845 ft. and 1,325 ft. of streambank on Willow Way Brook and St. Joseph's Cr., respectively, both direct tributaries of the East Branch. The project also included an education program. The East Branch DuPage River is a Category 1 watershed in the Unified Watershed Assessment. The TMDL and implementation plan for the East Branch DuPage River are complete.

Project Location: DuPage County

Subgrantee: The Conservation Foundation
10 S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

“East Branch DuPage River Watershed Restoration Action Strategy Implementation – Final Report.” May 2003. The Conservation Foundation.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
009	Stream Channel Restoration	2,800 ft.	?	?	?
580	Streambank /Shoreline Protection	11,072 ft.	571	532	1,064
657	Wetland Restoration	1.84 ac.	?	14	48
800	Urban Stormwater Wetland	1 (no.)	?	337	1,158
835	Urban Filter Strip	1 ac.	?	?	?
870	Level Spreader	1 (no.)	?	?	?

99-08(319)SR

Title: Macoupin Creek WRAS Development

Purpose: The Illinois EPA assisted local stakeholders with the development of a Watershed Restoration Action Strategy (WRAS) for the Macoupin Creek (ILDA04) watershed, which is a Category 1 watershed identified in the Unified Watershed Assessment. The WRAS is consistent with the Illinois EPA’s draft “Guidance for Developing Watershed Implementation Plans.” The WRAS identifies all of the resources, identifies the sources and causes of pollution, and specifies the recommended best management practices for restoration and protection of the watershed.

Project Location: Macoupin County

Subgrantee: Macoupin County Soil & Water Conservation District
300 Carlinville Plaza
Carlinville, Illinois 62626

Project Reports and Other Informational Materials:

“Upper Macoupin Creek Watershed Restoration Action Strategy.” May 1, 2003. Macoupin County Soil & Water Conservation District.

99-9(319)GE

Title: Little Vermilion River WRAS Development

Purpose: The Illinois EPA assisted local stakeholders with the development of a Watershed Restoration Action Strategy (WRAS) for the Little Vermilion River (ILDR01) watershed, which is a Category 1 watershed identified in the Unified Watershed Assessment. The WRAS is consistent with the Illinois EPA’s draft “Guidance for

Developing Watershed Implementation Plans.” The WRAS identifies all of the resources, identifies the sources and causes of pollution, and specifies the recommended best management practices for restoration and protection of the watershed.

Project Location: LaSalle County

Subgrantee: LaSalle County Soil & Water Conservation District
1691 North 31st Road
Ottawa, Illinois 61350

Project Reports and Other Informational Materials:

“A Watershed Restoration Action Strategy for the Little Vermilion River Watershed, LaSalle County, Illinois.” 2003. LaSalle County Soil & Water Conservation District.

99-10(319)GE

Title: Total Maximum Daily Load & Implementation Plan Development

Purpose: This project developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within two (2) specific watersheds (East Fork, Kaskaskia (ILOK01); Rayse Creek (ILNK01)) on the 303(d) list through the computer modeling. The two watersheds were also Category 1 watersheds in the Unified Watershed Assessment. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

Project Location: Counties of Clinton, Marion, Fayette, and Jefferson

Subgrantee: Harza Engineering Company
233 South Wacker Drive
Chicago, Illinois 60606-6392

Project Reports and Other Informational Materials:

“Rayse Creek (ILNK01) TMDL and Implementation Plan.” September 2003. MWH.

“East Fork, Kaskaskia River (ILOK01) TMDL and Implementation Plan.” August 2003. MWH.

99-11(319)GE

Title: Total Maximum Daily Load & Implementation Plan Development

Purpose: This project developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within two (2) specific watersheds, Salt Creek (ILGL09) and

E. Br. DuPage River (ILGBL10), on the 303(d) list through computer modeling. The two watersheds were also Category 1 watersheds in the Unified Watershed Assessment. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

Project Location: Counties of Cook, DuPage, and Will

Subgrantee: CH2MHill
727 North First Street, Suite 400
St. Louis, Missouri 63102-2542

Project Reports and Other Informational Materials:

99-12(319)BY

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The McDonough County Soil & Water Conservation District (SWCD) facilitated the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conducting field visits to determine program eligibility. The McDonough County SWCD completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtained the necessary producer signatures on required documents, and completed all state CREP enrollment forms. The McDonough County SWCD coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of McDonough and Hancock

Subgrantee: McDonough County SWCD
1607 West Jackson Street
Macomb, Illinois 61455

99-13(319)JW

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Peoria County Soil & Water Conservation District (SWCD) facilitated the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conducted field visits to determine program eligibility. The Peoria County SWCD completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtained the necessary producer signatures on required documents, and completed all state CREP enrollment forms. The Peoria County SWCD coordinated activities

associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of Peoria and Tazewell

Subgrantee: Peoria County SWCD
2412 West Nebraska Avenue
Peoria, Illinois 61604

99-14(319)JW

Title: Watershed Management Coordination

Purpose: The Northeastern Illinois Planning Commission (NIPC) provided coordination and technical assistance to entities (local governments, soil and water conservation districts, planning committees, businesses, volunteer organizations, etc.) undertaking comprehensive watershed management initiatives in northeastern Illinois. NIPC assisted these entities with the development of Watershed Restoration Action Strategies (WRASs) and Watershed Implementation Plans (WIPs), as defined by the Illinois EPA. Priority was given to those watersheds that contain nonpoint source pollution control projects funded by the Illinois EPA, and those within Clean Water Act 303(d) listed waters and/or the Unified Watershed Assessment and Watershed Restoration Priorities for Illinois as identified by the Illinois EPA. NIPC assisted these entities in the compilation and evaluation of resource inventory data, formulation of water quality objectives, selection and implementation of nonpoint source pollution control practices, dissemination of information/education materials for water quality protection, and evaluating program success.

Project Location: Counties of Lake, McHenry, Kane, Cook, DuPage, & Will

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

99-15(319)SR

Title: GIS Programming for BMP Location

Purpose: The Illinois EPA developed a strategy to establish a geographic information system (GIS) interface with the Illinois EPA's Projects 2000 database and perform specific queries of the Projects 2000 database. The Projects 2000 database contains the location and other information of best management practices (BMPs) implemented by the Illinois EPA with funding under Section 319 of the Clean Water Act. Programs were developed to allow Illinois EPA to query and map information contained in the Projects 2000 database. The maps identify the type and location of

BMPs implemented in selected watersheds along with political subdivisions, surface waters, roads, railways, and other appropriate physical and institutional features.

Project Location: Statewide

Subgrantee: Not Applicable

99-16(319)CD

Title: Mackinaw River Watershed Project – Woodford County

Purpose: This project supplemented Phase 1 and Phase 2 of the Mackinaw River Watershed Project. The project focused on the implementation of a cost-share program to assist landowners in the installation of sediment and stormwater retention and streambank stabilization best management practices (BMPs) in the Woodford County portion of the Mackinaw River (ILDK13) watershed. All work was implemented in accordance with the Mackinaw River Watershed Management Plan and the three subwatershed plans as approved by the Illinois EPA. BMPs implemented under this project included twelve ponds (15.2 ac.), one block chute, three grassed waterways (4.3 ac.), 1,175 feet of streambank stabilization, seven riffles to stabilize 635 feet of streambed, and two water and sediment control basins (1,100 ft.).

Project Location: Woodford County

Subgrantee: Woodford County Soil & Water Conservation District
937 West Center Street
Eureka, Illinois 61530

Project Reports and Other Informational Materials:

“Mackinaw River Project – Woodford County - Final Report.” December, 2003. Woodford County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
378	Pond	12 (no.)	404	96	194
410	Grade Stabilization Structure	1 (no.)	14	14	28
412	Grassed Waterway	4.3 ac	105	105	210
580	Streambank/Shoreline Protection	1,175 ft.	419	119	237
584	Stream Channel Stabilization	635 ft.	?	?	?
638	Water & Sediment Control Basin	1,100 ft.	21	21	42

99-17(319)CD

Title: Mackinaw River Watershed Project – Tazewell County

Purpose: This project supplemented Phase 1 and Phase 2 of the Mackinaw River (ILDK13) Watershed Project. The project was focused on the implementation of a cost-share program to assist landowners in the installation of streambank stabilization best management practices (BMPs) in the Tazewell County portion of the Mackinaw River watershed. All work to be implemented was in accordance with the Mackinaw River Watershed Management Plan and the three subwatershed plans as approved by the Illinois EPA.

Project Location: Tazewell County

Subgrantee: Tazewell County Soil & Water Conservation District
2934 Court Street
Pekin, Illinois 61554

Project Reports and Other Informational Materials:

“Final Report for Mackinaw River Project – Tazewell County.” July 2004. Tazewell County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	5,470 ft.	2,251	1,940	3,880
584	Stream Channel Stabilization	2,400 ft.	313	266	532

99-18(319)CD

Title: Mackinaw River Watershed Project – NRCS Technical Support

Purpose: The Natural Resources Conservation Service provided technical assistance to the Woodford and Tazewell County Soil and Water Conservation Districts for the implementation of best management practices (BMPs) in the Mackinaw River (ILDK13) watershed. Technical assistance included survey, design, permitting and final construction checks. This project supplemented Phase 1 and Phase 2 of the Mackinaw River Watershed Project. All work implemented was in accordance with the Mackinaw River Watershed Management Plan and the three subwatershed plans as approved by the Illinois EPA.

Project Location: Counties of Tazewell and Woodford

Subgrantee: USDA – NRCS
1902 Fox Drive
Champaign, Illinois 61820

99-19(319)CD

Title: Village of Royal Lakes – Shad Lake Restoration Project

Purpose: The Village of Royal Lakes continued work with the Natural Resources Conservation Service (NRCS) and the Illinois EPA to stabilize eroding lake shoreline and to install a water and sediment retention basin (wetland) upstream of Shad Lake. Shad Lake is located within the Illinois River watershed. This project was the second phase of a major watershed management effort. The first phase included working with landowners and operators in the watershed to install best management practices to reduce soil erosion and stormwater runoff. Phase two implemented lakeshore and in-lake best management practices. The basin/wetland will retain stormwater runoff and trap sediment from a 320-acre subwatershed. The third and final phase completed dredging of Shad Lake. The project site demonstrates a “total” lake restoration project, (planning, watershed implementation, lake implementation and finally dredging). In addition to the sediment basin implemented with Section 319 funding, the project also included 520 feet of shoreline stabilization (PLWIP) and construction of ten water and sediment control basins (CPP).

Project Location: Macoupin County

Subgrantee: Village of Royal Lakes
549 West Shipman Road
Shipman, Illinois 62685

Project Reports and Other Informational Materials:

“Village of Royal Lakes – Shad Lake Restoration Project – Final Report.” October 2002. Village of Royal Lakes.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	244	25	144
580	Streambank/Shoreline Protection	520 (ft.)	265	265	530
638	Water & Sediment Control Basin	2,000 ft.	58	?	?

99-20(319)CD

Title: Lincoln Memorial Garden NPS Control – Phase 2

Purpose: This project was a continuation of the Lincoln Memorial Garden NPS Pollution Control Project funded under the FFY 1995 Section 319 grant. Lincoln Memorial Garden is listed on the National Historic Register as a “historic landscape”. The project area, recently acquired by the Garden, is across the street from the original garden. The project site is located upstream of a number of in-stream best management practices applied during the original project, all of which are located upstream of Lake Springfield (ILREF). Lincoln Memorial Garden staff coordinated the retrofit of an existing water detention basin into a wetland. In addition, staff coordinated the removal of an accumulation of materials left by the previous

landowner (deceased). Garden staff inventoried the materials removed, and identified the most interesting items found. The inventory and special items were used to promote the need to stop illegal dumping and littering.

Project Location: Sangamon County

Subgrantee: Lincoln Memorial Garden
2301 East Lake Drive
Springfield, Illinois 62707

Project Reports and Other Informational Materials:

“Lincoln Memorial Garden NPS Control – Phase 2 – Final Report.” January 30, 2004. Lincoln Memorial Garden.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	0.7 (ac.)	6	?	?
562	Recreational Area Improvement	6 (ac.)	?	?	?

99-21(319)CD

Title: Salt Creek Stabilization – Rolling Meadows

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of 1,800 feet of eroding streambank along a 3,000-foot segment of Salt Creek (ILGL09) located in Rolling Meadows, Illinois. Bioengineering techniques (i.e., vegetated gabion baskets, re-grading and stone toe protection, and clearing and revegetation with native vegetation) were used. Salt Creek is a Category 1 watershed in the Unified Watershed Assessment. The TMDL and implementation plan for Salt Creek are complete.

Project Location: Cook County

Subgrantee: City of Rolling Meadows
3600 Kirchoff Road
Rolling Meadows, Illinois 60008

Project Reports and Other Informational Materials:

“Salt Creek Streambank Stabilization Project – Final Report.” January 2004. Christopher B. Burke Engineering, Ltd.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,800 (ft.)	297	252	504

Title: Northwest Illinois Livestock Project

Purpose: This project involved the implementation of best management practices (BMPs) for milk house waste that are appropriate for northwestern Illinois. The project explained the benefits and limitations for each BMP. Cost share and incentive payments were used to facilitate implementation of new or upgraded milk house waste handling facilities, based on water quality criteria.

Project Location: Counties of Carroll, Jo Daviess, Stephenson, and Whiteside

Subgrantee: Blackhawk Hills RC&D, Inc.
102 East Route 30, Suite 2
Rock Falls, Illinois 61071

Project Reports and Other Informational Materials:

“Northwest Illinois Livestock Project.” March 2005. Blackhawk Hills RC&D, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
313	Waste Storage Structure	17 (no.)	?	?	?

99-23(319)ST (JC)

FFY 2000 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Pittsfield National Monitoring Program

Purpose: This project completed the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was funded each year under Section 319 since 1992.

Project Location: Pike County

Project Reports and Other Informational Materials:

00-1(319)ST

Title: Waukegan River National Monitoring Program

Purpose: This project completed the utilization of the national monitoring program initiated under Section 319 in federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River (ILQ01). A videotape was also produced, which documents the monitoring program

and the conditions of the physical and biological enhancements achieved on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

00-2(319)ST

Title: Northern Illinois Community Assistance Office

Purpose: This project provided training to Natural Resource Conservation Service regional staff on water quality regulations and technical issues. Furthermore, the project encouraged the provision of nonpoint source pollution control related technical assistance to appropriate local agencies and organizations in northeastern Illinois. The Natural Resources Conservation Service's Northeastern Illinois Community Assistance Office was established to serve the six county northeastern Illinois area. This office provided technical assistance to soil and water conservation districts, planning commissions, county departments, townships and municipalities in northeastern Illinois. In addition to direct technical assistance, the staff of this office provided information/education and training assistance. The major focus of the office was on erosion/sediment control, water quality, and natural resource management.

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

Subgrantee: USDA Natural Resources Conservation Service
603 East Diehl Road, Suite 131
Naperville, Illinois 60563-1476

00-4(319)SR

Title: Evaluation of Treated Swine Waste Application

Purpose: This project assessed a new method of treating swine waste called aerobic thermophilic treatment (AT Treatment) in terms of its ability to reduce nutrient and bacterial nonpoint source (NPS) pollution as compared to current practices in growing corn following swine waste application. Data was collected on NPS nutrient and bacterial pollution arising from the application of treated swine waste as a nutrient source for corn. Instead of sampling and analysis at a given pork producer's operation and application to his corn fields where large numbers of environmental samples would be required for statistical confidence, this assessment used constructed replicate field plots where ground and surface water can be collected and sampled. A statistically designed study using 12 constructed field lysimeters with triplicate treatments of AT treated fertilizer, lagoon treated fertilizer with inorganic nitrogen fertilizer added to increase nitrogen value and an untreated control was used. The comparative study between the treatments assessed the

levels of contamination of ammonia nitrogen, nitrate nitrogen, total nitrogen, ortho-phosphate-P, total phosphorus and fecal coliforms. Collected data was analyzed and disseminated to the public through an Internet web page and by presentations.

Project Location: Jackson County

Subgrantee: Southern Illinois University, Research Development & Administration
Carbondale, Illinois 62901-4709

00-5(319)JC

Title: 2nd National NPS Pollution Control Information/Education Conference

Purpose: The purpose of this project was to bring together a variety of entities involved in nonpoint source pollution control information and education programs in the United States. The conference focused on those groups and individuals with an interest in nonpoint source pollution control information and education projects and those with experience in information and education projects. The conference included sessions, displays, and field trips to share a variety of nonpoint source pollution control information and education programs that are currently being implemented or are under development. The conference was held May 14 – 17, 2001 in Chicago, Illinois.

Project Location: Cook County

Subgrantee: Chicago Botanic Garden
1000 Lake Cook Road
Glencoe, Illinois 60022

Project Reports and Other Informational Materials:

“2nd National Conference Nonpoint Source Pollution Information & Education Programs.” March 2002. Chicago Botanic Garden.

00-6(319)BL

Title: Farm Progress Show/Illinois State Fair 2000

Purpose: The purpose of this project was to create a nonpoint source pollution control/water quality display for the 2000 Farm Progress Show and Illinois State fair. The target audience was Illinois agricultural producers and their families. Illinois agriculture covers approximately 87 percent of the state. The Farm Progress Show is held in Illinois every three years. Attendance is estimated at 250,000 (rainy weather) to over 500,000 (sunshine). Eighty percent of the attendees are from within 100 miles of the show with the remaining 20 percent from everywhere else, including England, Australia, Canada, Mexico, etc.

Project Location: Sangamon County

Subgrantee: Not Applicable

00-7(319)CD

Title: Armitage Creek Project

Purpose: Approximately 2,420 feet of Armitage Creek, a tributary of the East Branch DuPage River (ILGBL10), were stabilized utilizing bioengineering techniques (a-jacks, fiber roll, vegetation) to protect streambanks and enhance water quality. A drop structure was also constructed to receive flow from a roadside swale and eliminate scour. The project included an educational component to inform residents and property owners through newsletters, meetings, and workshops.

Project Location: DuPage County

Subgrantee: Village of Glendale Heights
300 Civic Center Plaza
Glendale Heights, Illinois 60139

Project Reports and Other Informational Materials:

“Armitage Creek Streambank Stabilization Project – Final Report.” October 23, 2003. Village of Glendale Heights.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,420 (ft.)	199	168	337

00-8(319)SR

Title: North Fork Embarras Watershed Project – Phase 2

Purpose: This project protected and improved the water quality of the North Fork Embarras River (ILBEF05) watershed by reducing nonpoint source pollution through a continuation of the efforts initiated with Section 319 funding under federal fiscal year 1996. A comprehensive program of sediment and nutrient reduction was implemented that included watershed protection, information, and education efforts. Upland BMPs installed included 21 grassed waterways, 16 sediment basins, 1 water and sediment control basin, 1 pond, 2 terraces, and 5 grade stabilization structures. One streambank stabilization project using longitudinal peakstone toe protection was installed on 60 linear feet of streambank on the main channel.

Project Location: Counties of Jasper and Clark

Subgrantee: North Fork Conservancy District
Post Office Box 7, 110 East Main
Casey, Illinois 62420

Project Reports and Other Informational Materials:

“North Fork Embarras Watershed Project – Final Report.” April 2002. North Fork Conservancy District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	16 (no.)	525	149	301.5
378	Pond	1 (no.)	63	21	42
410	Grade Stabilization Structure	5 (no.)	19	19	37
412	Grassed Waterway	48.4 ac.	195	186	371
580	Streambank/Shoreline Protection	60 ft.	61	61	122
600	Terrace	?	17	11	20.5
638	Water & Sediment Control Basin	55 ft.	33	?	?

00-9(319)JC

Title: Nutrient Management Plan Implementation

Purpose: This project demonstrated to producers that Nutrient Management Plans should be an integral component to their farming operation. Producers were provided with an incentive payment to follow (not exceed) the nitrogen rate, timing, and application guidelines established by the University of Illinois within watersheds identified as having nitrate impaired waters. The short-term goal was to increase the number of acres managed according to nutrient management plans in the selected watersheds. The long-term goal was to maintain the number of acres managed with nutrient management plans in these watersheds after the project ends and to be able to demonstrate to other producers in the State the value of nutrient management planning. Waterbodies protected included Lake Decatur (ILREA), Lake Bloomington (ILRDO), Paris Twin Lakes (ILRBX), Georgetown Lake (ILRBS), and Lake Vermilion (ILRBD).

Project Location: Counties of Edgar, Champaign, Macon, McLean, and Vermilion

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

“Draft Watershed Plan for the Little Vermilion River. October 2004. Champaign County Soil and Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
590	Nutrient Management	79,321 (ac.) ?		23,511	46,451

00-10(319)JC

Title: Salt Creek Streambank Stabilization – Phase 2

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of 1,975 feet of eroding streambank along a segment of Salt Creek (ILGL09) located in Wood Dale, Illinois. Bioengineering techniques (i.e., a-jacks, erosion control blankets, willow posts, fiber roll) were used. This was a continuation of a streambank stabilization effort on Salt Creek initiated in 1998 with FFY94 Section 319 funding. Salt Creek is a Category 1 watershed in the Unified Watershed Assessment and is currently under TMDL development.

Project Location: DuPage County

Subgrantee: City of Wood Dale
404 North Wood Dale Road
Wood Dale, Illinois 60191

Project Reports and Other Informational Materials:

“Salt Creek Stream Bank Stabilization Project – Phase 2 – Final Report.” February 11, 2002. City of Wood Dale.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,975 ft.	301	255	511

00-11(319)SR

Title: North Fork Vermilion River Project – Phase 2

Purpose: Operators in the area were contacted to increase awareness and to help them adopt conservation measures. Best management practices (BMPs) were designed and constructed to reduce siltation and nutrient/pesticide transport. BMPs used in this project included grassed waterways (6.07 ac.), grade stabilization structures (7), terraces (7,515 ft.), and tree planting (1.5 ac.). Public meetings and other educational programs, including a cover crop demonstration, were conducted to increase awareness to all citizens in the watershed. This was a continuation of an effort on the North Fork Vermilion River (ILBPG09) initiated with FFY97 Section 319 funding. The North Fork Vermilion River is a Category 1 watershed in the Unified Watershed Assessment.

Project Location: Vermilion County

Subgrantee: Vermilion County Soil & Water Conservation District
191 South Henning Road
Danville, Illinois 61832

Project Reports and Other Informational Materials:

“North Fork Vermilion River Project – Phase 2 – Final Report.” November 2002. Vermilion County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
410	Grade Stabilization Structure	7 (no.)	9	9	18
412	Grassed Waterway	6.07 (ac.)	86.5	86	171
600	Terrace	7,515 (ft.)	480	482	964
612	Tree Planting	1.5 (ac.)	3	6	12

00-12(319)JC

Title: West Branch DuPage River Streambank Restoration – Phase 2

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of eroding streambanks along 300 feet of the West Branch DuPage River (ILGBK05) using bendway weirs, biotechnical slope stabilization, and vegetation. This was a continuation of a streambank stabilization effort on the West Branch DuPage River initiated with FFY98 Section 319 funding. The West Branch DuPage River is a Category 1 watershed in the Unified Watershed Assessment. The project also included an education component involving an urban best management practices workshops.

Project Location: DuPage County

Subgrantee: The Conservation Foundation
10 S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

“West Branch DuPage River Streambank Restoration – Phase 2 – Final Report.” May 2002. The Conservation Foundation.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	300 ft.	81	81	162

00-13(319)SR

Title: Senachwine Creek Watershed Project – Phase 2

Purpose: This project improved water quality through the treatment of uplands and floodplains in the Senachwine Creek (ILD01) watershed, and through the implementation of a watershed educational/training program. Cost-share assistance was provided to watershed landowners to implement a variety of upland and floodplain best management practices (BMPs). Upland BMPs included 54,507.5 feet of terraces, 13 acres of waterways, 36 water and sediment control basins, 1 grade stabilization structures, and one animal waste management system project. Floodplain BMPs included 12 ponds and 1 streambank stabilization project. This was a continuation of an effort initiated with FFY94 Section 319 funding. Senachwine Creek is a Category 1 watershed in the Unified Watershed Assessment. The project also included an educational component to increase public awareness concerning nonpoint source pollution control.

Project Location: Peoria County

Subgrantee: Illinois River Soil Conservation Task Force
2412 West Nebraska Avenue
Peoria, Illinois 61604

Project Reports and Other Informational Materials:

“Senachwine Creek Watershed Nonpoint Source Control Project Phase 2 – Final Report.” February 2003. Illinois River Soil Conservation Task Force.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
312	Animal Waste Management System	1 (no.)	45	45	90
350	Sediment Basin	9 (no.)	233	439	874
362	Diversion	1 (no.)	?	51	534
378	Pond	12 (no.)	1,967	1,242	2,487
393	Filter Strip	1 ac.	177	214	427
412	Grassed Waterway	13 ac.	1,009	1,205	2,406
580	Streambank/Shoreline Stabilization	101 ft.	?	?	?
600	Terrace	54,507 ft.	3,658.2	2,958	5,672
638	Water & Sediment Control Structure	12,936 ft.	1,492.2	992	1,971
657	Wetland Restoration	90 (ac.)	?	?	?

00-14(319)ST

Title: Cache River Reforestation Project – Phase 2

Purpose: This project converted environmentally sensitive croplands to forest through planting of native hardwood species. The project was targeted toward fields designated as “prior converted cropland” or “farmed wetland” with an emphasis on plantings in riparian corridors that provide streambank stability and/or connect fragmented habitats. Technical assistance was also provided for the improvement of already existing timber stands along with an information/education program. This was a

continuation of an effort initiated with FFY96 Section 319 funding. The Cache River (ILIX01) is a Category 1 watershed in the Unified Watershed Assessment.

Project Location: Counties of Union, Johnson, Alexander, Pulaski, and Massac

Subgrantee: Shawnee Resource Conservation and Development Area
R.R. 6, Box 255
1305 North Carbon
Marion, Illinois 62959

Project Reports and Other Informational Materials:

“Cache River Reforestation Project, Phase 2 – Final Report.” August 11, 2003. Shawnee Resource Conservation and Development Area.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
612	Tree Planting	1,525.3 ac.	9,522	10,286	20,577

00-15(319)JC

Title: Chicago Botanic Garden Lake WRAS Implementation

Purpose: This project installed best management practices along 5,783 linear feet of shoreline on the Chicago Botanic Garden Lagoon (ILRHJA) to arrest shoreline erosion and reduce nonpoint source pollution while protecting or enhancing habitat and aesthetic qualities. The installation of shoreline stabilization practices was consistent with the recommendations of the Chicago Botanic Garden’s “Aquatic Initiative – Lagoon Shoreline Restoration Master Plan” and “Clean Lakes Diagnostic/Feasibility Study,” which together served as a watershed restoration action strategy. Shoreline stabilization practices included sheet-pilings, stone walls, cobbles, fiber rolls, A-jacks, lunkers, native grasses and shrubs, erosion control blankets, live fascines, branch-packing, and vegetated geogrids. The project also included an education component including meetings, tours, and construction of a webpage about the project and the shoreline restoration techniques.

Project Location: Cook County

Subgrantee: Chicago Botanic Garden
1000 Lake Cook Road
Glencoe, Illinois 60022

Project Reports and Other Informational Materials:

“Chicago Botanic Garden Lakes Watershed Restoration Action Strategy Implementation – Final Report.” August 2006. Chicago Horticultural Society – Botanic Garden.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	5,783 ft.	56	56	111

00-16(319)AW

Title: Roof Greening Project Opening

Purpose: The Peggy Notebaert Nature Museum created and exhibited a temporary display to announce and describe the Roof Greening Project to be implemented under Illinois Federal Fiscal Year 2003 Section 319 grant. The display describes, in a non-technical manner, the proposed green roof system in terms of its design, construction, function, and benefits. The display also presents information on nonpoint source pollution from urban runoff, its impacts on the environment, and the importance of water quality protection. The Peggy Notebaert Museum also held a ceremony to 1) announce the Illinois EPA's partnership with the Peggy Notebaert Museum on the Roof Greening Project 2) recognize project participants, 3) explain the project's purpose and the importance of nonpoint source pollution control, and 4) encourage cooperation among public and private groups for enhanced environmental awareness and protection programs.

Project Location: Cook County

Subgrantee: The Peggy Notebaert Nature Museum
2430 Cannon Drive
Chicago, Illinois 60614

00-17(319)BL

Title: Salt Creek Nonpoint Source Outreach & Education

Purpose: This project developed a traveling education fair to educate the public about nonpoint source (NPS) pollution and the importance of protecting water quality in the Salt Creek (ILGL09) watershed. These traveling education fairs took place in three targeted communities. A start up kit of materials and resources were compiled to provide assistance to other communities who would like to assemble and host their own education fair and creek clean up. The Salt Creek Watershed Network website located at www.saltcreekwatershed.org was updated to include easy-to use formatting, design enhancements, more basic and technical content on NPS pollution and water quality appropriate to both less informed and more skilled users, more links, more conservation action, a kid-friendly section, and easier feedback interface.

Project Location: Cook County

Subgrantee: Salt Creek Watershed Network
8738 Washington Avenue
Brookfield, Illinois 60513

00-18(319)BL

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within eight (8) watersheds on the 303(d) list through computer modeling. The eight (8) watersheds were also Category 1 watersheds in the Unified Watershed Assessment. Watersheds included Beaucoup Cr. (ILNC05), Casey Fork (ILNJ07), Bonnie Cr. (ILNCD01), Big Muddy R. (ILN12), Dutchman Cr. (ILADD01), Little Muddy R. (ILNE05), Little Wabash R. (ILC21), and Big Muddy R. (ILN11). For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

Project Location:

Subgrantee: Camp, Dresser, & McKee

00-18(319)BY

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within the Fox River (ILCH01) watershed on the 303(d) list through computer modeling. The watershed was also a Category 1 watershed in the Unified Watershed Assessment. For the watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

Subgrantee: Tetra Tech EM, Inc.
200 East Randolph Drive
Suite 400
Chicago, Illinois 60601

Project Reports and Other Informational Materials:

00-19(319)BY

Title: Old Salem Chautauqua Wetland Basin Project

Purpose: This project created a 6.5 acre sediment basin with wetland plantings by restoring an existing breached pond that was originally build in 1926 directly adjacent to the Sangamon River (ILE24).

Project Location: Menard County

Subgrantee: Old Salem Chautauqua Homeowners Association
P.O. Box 42
Petersburg, Illinois 62675

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	19	1	1

00-19(319)CD

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within the W. Br. DuPage R. (ILGBK05) watershed on the 303(d) list through computer modeling. The one (1) watershed was also a Category 1 watershed in the Unified Watershed Assessment. For the watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

Project Location:

Subgrantee: CH2MHill
727 North First Street, Suite 400
St. Louis, Missouri 63102-2542

Project Reports and Other Informational Materials:

00-20(319)BY

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within the Charleston Side Channel Reservoir (ILRBC) watershed as identified on the 303(d) list through computer modeling. The watershed is also a Category 1 watershed in the Unified Watershed Assessment. Computer models were used to identify a distribution of pollutant

loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of an implementation plan for TMDL attainment. The TMDL was approved by USEPA on September 10, 2003

Project Location: Coles County

Subgrantee: Tetra Tech, Inc.
10306 Eaton Place
Suite 340
Fairfax, Virginia 22030

Project Reports and Other Informational Materials:

“Charleston Side Channel Reservoir Total Maximum Daily Load Report.” August 2003. Tetra Tech Inc.

00-21(319)GE

FFY 2001 Federally Funded Section 319 Projects

Title: Lake Branch WRAS (Nutrient Management Plan) Implementation

Purpose: The Lake Branch was a Category 1 watershed in the Unified Watershed Assessment. This project began implementation of the Lake Branch WRAS (Sugar Cr./Lake Branch Watershed Pilot Project). The Lake Branch Watershed was a 303d listed water in a portion of the state which has comparatively high number of livestock operations. Sources identified in the Illinois Water Quality Report 1998 Update listed moderate to high for feedlots. Waste Utilization Plans were developed for livestock producers in the Lake Branch Watershed (ILOHA01) that were not presently required to have a Comprehensive Nutrient Management Plans (CNMPs) under the NPDES permit program. Additionally technical support was supplied to design upgraded waste handling facilities for operations in need of this service. Operations in need of upgrades were eligible for cost share for the upgrade. The overall goal of this project was to demonstrate to producers that Waste Utilization Plans should be an integral component to their livestock operation. The project also included cost-share assistance to watershed landowners through the Illinois Department of Natural Resources' (IDNR) Conservation 2000 program to implement a variety of upland and floodplain best management practices (i.e., waterways, grade stabilization structures, vegetative filter strips). The upland and floodplain BMPs were funded through the State Conservation 2000 program administered by IDNR and used as match against Section 319 funding for Waste Utilization Plans and upgraded waste handling facilities.

Project Location: Clinton County

Subgrantee: Southwestern Illinois Resource Conservation & Development Area, Inc.
406 East Main
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

“Lake Branch Watershed Restoration Action Strategy (WRAS) Implementation.” June 2005. Southwestern Illinois RC&D, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
312	Waste Management System	1 (no.)	?	1,002	6,807
313	Water Storage Structure	7 (no.)	?	4,256	27,580
342	Critical Area Planting	2 ac.	540	459	918
410	Grade Stabilization Structure	6 (no.)	?	?	?
412	Grassed Waterway	6.1 ac.	711	191	383
558	Roof Runoff Management	1 (no.)	?	927	6,807
638	Water & Sediment Control Basin	3,050 ft.	1,397.5	650	1,301

01-01(319)CD (JC)

Title: Nonpoint Source Pollution Book – Phase 2

Purpose: This project developed a “Magic School Bus” style book on urban NPS pollution for 3rd through 5th grades. The Secret Agent Worm project is a comprehensive educational program that centers around the antics of two zany superspy worms—Napoleon Soil and Jane Blonde. In their first adventure, *The Disappearing Earth*, Napoleon and Jane tackled the priority-one nonpoint pollution problem of soil erosion. In this project, the Secret Agent Worms now turn their eyes to urban runoff. This adventure takes them deep beneath the streets in city storm sewers, where they are trying to track down the source that is contaminating a river. The Urban Runoff Teacher’s Packet includes a copy of the new book, *Beneath the City of Ooze*, along with Secret Agent Worm stickers, bookmarks, and a poster.

Project Location: Statewide

Subgrantee: The University of Illinois
801 South Wright Street
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“The Secret Agent Worms Return in ... Beneath the City of Ooze.” 2003. University of Illinois.

01-02(319)BL

Title: CREP & Watershed Management Education in Illinois

Purpose: This project established a partnership among Illinois EPA, Illinois Department of Natural Resources (IDNR), and University of Illinois to create two new jointly funded positions to address the information and education needs of various groups on

CREP and watershed management. The primary audience was staff from agencies and organizations whose responsibilities cover conservation programs and watershed management. Both programs were used to assist individuals and basin/watershed groups in developing and implementing equitable, economically viable, resource-conserving strategies.

Project Location: Statewide

Subgrantee: The University of Illinois
801 South Wright Street
Champaign, Illinois 61820

01-03(319)BL

Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling. This project also included the construction of a Clean Water Display and rain gardens.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

01-04(319)BL

Title: Greater Eliza Watershed Project – Phase 2

Purpose: The purpose of this project was to protect and improve the water quality of the Greater Eliza (ILMWD01) Watershed by reducing nonpoint source pollutants. The project provided cost-share assistance to watershed landowners to implement a variety of upland and floodplain best management practices (i.e., sediment basins, ponds, grassed waterways, grade stabilization structures, water and sediment control basins). An educational program was developed to educate the public about the importance of streambank stabilization and nonpoint source pollution. This project was a continuation of an effort initiated with FFY 1998 Section 319 funding.

Project Location: Mercer County

Subgrantee: Mercer County Soil & Water Conservation District
308 Southeast 8th Avenue
Aledo, Illinois 61231

Project Reports and Other Informational Materials:

Greater Eliza Watershed Project Phase 2 – Final Report.” May 12, 2004. Mercer County Soil and Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	3 (no.)	253	324	648
378	Pond	5 (no.)	1,228	962	1,924
410	Grade Stabilization Structure	3 (no.)	109	109	218
412	Grassed Waterway	3.1 ac.	247	223	450
600	Terrace	400 ft.	5	7	13
638	Water & Sediment Control Basin	22,323 ft.	2,506	1,257	2,511

01-07(319)JC

Title: Fox River WRAS Implementation Project

Purpose: The project included seven watershed restoration and protection projects as well as watershed-wide project coordination, technical assistance, and continued plan development. A “conservation engineer” was hired to provide technical assistance for best development and land management practices throughout the Nippersink Creek (ILDTK04) watershed, a tributary of the Fox River. The project stabilized 415 feet of eroding streambank along Tyler Creek (ILDTZP02). Approximately 140 feet of eroding streambank along Otter Creek (ILDTF02), a tributary to Ferson Creek and the Fox River, were stabilized and structures were installed to protect the quality of an adjacent 40 acre wetland park (Otter Creek Bend Wetland). A dam located on Brewster Creek (ILDT38) at the Elgin YWCA’s Camp was removed to restore the impoundment to a meandering stream channel with a 4.9 acre wetland area and riparian buffer of native vegetation. A sediment monitoring program was implemented to demonstrate the effectiveness of the stream restoration and dam removal techniques. A biofiltration system was constructed in the center median of a parking lot in the West Main Street Park to drain and filter runoff to improve water quality by removing heavy metals and nutrients and reducing runoff volume. Stream restoration techniques (coir fiber rolls, A-jacks, lunkers, vegetated geogrids, deep rooted vegetation, and removal of non-native vegetation and undercut trees) were implemented along 5,790 feet of the Fox River and 6,060 feet of seven tributary streams. At Greater Raceway Woods, an existing outlet structure of an impoundment on an unnamed tributary of the Fox River (ILDT20) was modified and streambank and streambed stabilization was implemented along a 2,000 foot segment of the tributary.

Project Location: Counties of McHenry & Kane

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Implementation of the Fox River Watershed Management Plan – Phase 1 – Final Report.” October 2004. Northeastern Illinois Planning Commission.

“Improving the Fox River Watershed.” (videotape, 16 min.) 2005. Kane County Forest Preserve District.

“Boone Creek Watershed Protection & Restoration Strategy – Executive Summary.” January 2004. Boone Creek Watershed Alliance.

“Watershed Protection and Restoration Strategy for Boone Creek.” May 23, 2003. Northeastern Illinois Planning Commission.

“Brewster Creek Dam Removal and Stream Restoration.” (videotape) 2004. Kane County Department of Environmental Management.

“Preliminary Results of Dam Removal Analysis on Brewster Creek Near St. Charles, Illinois, 2003-2004.” October 2004. Kane County Department of Environmental Management.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	14,745 ft.	872	872	1,745
657	Wetland Restoration	4.9 ac.	?	?	?
845	Infiltration Trench	295 ft.	1.2	1	3
910	Rock Outlet Protection	1 (no.)	?	?	?

01-08(319)SR

Title: Upper DesPlaines River WRAS Implementation Project

Purpose: The DesPlaines River is a Category 1 watershed in the Unified Watershed Assessment. This project began implementation of the Watershed Restoration Action Strategy for the Upper DesPlaines River (ILG30). The project included four watershed restoration and protection projects as well as watershed-wide project coordination, technical assistance, and continued plan development. A 4.0-acre native riparian buffer was restored along Indian Creek (ILGU02), a tributary to the DesPlaines River, within the Reed-Turner Woodland Nature Preserve. Stabilization practices (coir fiber rolls, soil lifts, live staking, and a-jacks) were installed along 1,200 feet of streambank (600 feet of stream) of a tributary to Sylvan Lake (ILRGZF) in the Indian Creek sub-watershed along with the restoration of 0.33 acres of bottomland floodplain and 1.0 acre of savanna woodland. Watershed Implementation Plans were developed for the Indian Creek sub-watershed. Approximately 2.0 acres of sedge meadow were restored within a 47-acre Illinois State Nature preserve to increase stormwater storage capacity and biofiltration of runoff. Approximately 2,970 feet of eroding shoreline on East Pond were stabilized through the installation of aquatic plantings, seeding, erosion blankets, minor re-grading, shrubs, retaining wall, and terracing to create littoral vegetative shelves.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Indian Creek Watershed Implementation Plan.” May 21, 2003. Applied Ecological Services, Inc.

“Upper Des Plaines Watershed Restoration Action Strategy Implementation - Final Report.” September 30, 2003. Northeastern Illinois Planning Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
410	Grade Stabilization Structure	2 (no.)	?	?	?
580	Streambank/Shoreline Protection	4,170 ft.	100	100	199
657	Wetland Restoration	7.3 ac.	8	12	25
910	Rock Outlet Structure	1 (no.)	?	?	?

01-09(319)JC

Title: Prentiss Creek Streambank Stabilization Project

Purpose: Approximately 6,790 feet of eroding streambank along Prentiss Creek (ILGBLA), a tributary of the East Branch DuPage River, were stabilized utilizing bioengineering techniques (vegetated gabions, regarding, vegetation, and stone shelf). The installed practices were designed to protect streambanks and enhance water quality. The East Branch DuPage River is a Category 1 watershed in the Unified Watershed Assessment for which a TMDL and implementation plan have been completed.

Project Location: DuPage County

Subgrantee: Village of Woodridge
One Plaza Drive
Woodridge, Illinois 60517-4199

Project Reports and Other Informational Materials:

“Prentiss Creek Streambank Stabilization Project Final Report.” July 2003. Christopher B. Burke Engineering West, Ltd.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	6,790 ft.	256	256	512

01-10(319)ST

Title: Salt Creek Streambank Stabilization – Phase 3

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of eroding streambanks along a segment of Salt Creek (approximately 1,111 feet) located in Wood Dale, Illinois. Bioengineering techniques (.e., a-jacks and vegetated geo-grids) were used. This was the third phase of a Salt Creek (ILGL03) streambank stabilization effort in the City of Wood Dale initiated in 1998 with FFY 1994 Section 319 funding and continued with FFY 2000 Section 319 funding. Salt Creek (ILGL09) is a Category 1 watershed in the Unified Watershed Assessment and is scheduled for TMDL development over the next two years.

Project Location: DuPage County

Subgrantee: City of Wood Dale
404 North Wood Dale Road
Wood Dale, Illinois 60191

Project Reports and Other Informational Materials:

“Salt Creek Stream Bank Stabilization Project – Phase 3 – Final Report.” January 2003. City of Wood Dale.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,111 ft.	134	113	226

01-11(319)SR

Title: Rivers Rising Video

Purpose: The Illinois EPA and the John G. Shedd Aquarium developed a ½ hour video documentary on the relationships between humans and riparian ecosystems, specifically the Amazon and Mississippi Rivers. The Video examines how human land uses influence water quality as well as the volume and velocity of runoff. The video features Section 319 projects, and others, that have been implemented to mitigate adverse environmental impacts and improve water quality in the Mississippi River watershed.

Project Location: Cook County

Subgrantee: John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605

Project Reports and Other Informational Materials:

“Big Rivers Rising.” (28.5 minute video) December 2002. John G. Shedd Aquarium.

01-12(319)SR

Title: Illinois Buffer Partnership

Purpose: Trees Forever and the Illinois Council on Best Management Practices (C-BMP) improved water quality by promoting riparian restoration in targeted watersheds (Blackberry Cr. (ILDTD02), Farm Cr. (ILDZZP03), & Kickapoo Cr. (ILEIE05)) within the Illinois River basin. This project promoted an integrated approach to managing riparian zones through the planting of trees, shrubs and grasses along streams; stabilizing streambanks; enhancing stream channels with natural materials; and employing constructed wetlands. The primary objectives of the project were to increase the number and quality of riparian management systems in the watersheds by: 1) coordinating training sessions for local professionals and consultants; 2) providing informational and promotional programs and activities on the importance of stream corridors and the need for riparian restoration; and 3) assisting with the establishment of demonstration projects on rural landowner properties through the coordination of riparian management design, funding, and installation assistance to landowners.

Project Location: Counties of Kane, Kendall, Tazewell, & Logan

Subgrantee: Trees Forever
770 7th Avenue
Marion, Iowa 52302

Project Reports and Other Informational Materials:

“Illinois Buffer Partnership – Final Report.” December 15, 2003. Trees Forever.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
393	Filter Strips	9.3 ac.	228	378	748
580	Streambank/Shoreline Protection	3,300 ft.	12	11	22
612	Tree Planting	255 ac.	816	1,030	2,055
657	Wetland Restoration	35 ac.	?	29	124

01-13(319)JC

Title: Salt Creek TMDL Implementation Plan Execution – Phase 1

Purpose: The Illinois EPA began executing the nonpoint source pollution control recommendations of the Salt Creek Total Maximum Daily Load (TMDL) implementation plan prepared with funding under the FFY1999 Section 319 grant. The project stabilized 12,500 feet of eroding streambanks along Salt Creek (ILGL09) in Elk Grove Village. Also, streambank, wetland, and upper

buffer restoration techniques were applied along the Middle Fork of Salt Creek located in the Village of Westchester to reduce erosion, enhance infiltration, reduce runoff volume and velocity, improve water quality, and enhance aquatic habitat. The project also stabilized 1,000 feet of eroding streambed and 750 feet of eroding streambank and establish a vegetative riparian buffer along Spring Brook Creek, a tributary of Salt Creek, located at the Spring Brook Nature Center in the Village of Itasca. A stormwater outfall discharging to Spring Brook Creek was repaired and stabilized with a small wetland established at the outfall to further control erosion and filter stormwater before discharge to the creek. Finally, a vegetated swale (bio-filter or bio-retention) and a manufactured treatment system (oil and grit separators) were constructed in Brookfield to receive and treat runoff from the municipal parking lot and the roof of the Village Hall before it discharges to Salt Creek.

Project Location: Counties of Cook & DuPage

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Salt Creek TMDL Implementation Plan Execution – Phase 1 – Final Report.” August 2005. Northeastern Illinois Planning Commission.

“Salt Creek Watershed.” (map brochure) 2004. Salt Creek Watershed Network & Northeastern Illinois Planning Commission.

“Salt Creek – A Resource Worth Preserving. Best Management Practices for Reducing Non-Point Source Pollution.” June, 2004. Salt Creek Watershed Network & Northeastern Illinois Planning Commission.

“Salt Creek – A Resource Worth Preserving. Guide for Funding Watershed Improvements and Projects.” June, 2004. Salt Creek Watershed Network & Northeastern Illinois Planning Commission.

“Salt Creek Headwater Recovery Project...at Wolf Road Prairie.” (brochure) 2004 Save the Prairie Society.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
010	Oil and Grit Separator	1 (no.)	?	?	?
580	Streambank/Shoreline Protection	16,850 ft.	481	449	899
584	Stream Channel Stabilization	1,000 ft.	28	23	47
657	Wetland Restoration	35 (ac.)	?	22	55
845	Infiltration Trench	240 ft.	?	?	4
910	Rock Outlet Protection	1 (no.)	?	?	?

01-14(319)SR

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment. Watersheds included ILDAG01 (Palmyra-Modesto, Hodges Cr., Otter, Hettick), ILOIL01 (Glen Shoals, Hillsboro Old), ILBPG09 (Vermilion, N. Fk. Vermilion R.), ILCA03 (Skillet Fk. Cr.), ILDA04 (Carlinville, Macoupin Cr. Briar Cr., Beaver Dam), ILBM02 (Paris Twin East & West, Sugar Cr.), ILDK17 (Evergreen, Mackinaw R. Six Mile Cr., Turkey Cr.), ILOKA01 (N. Fk. Kaskaskia R.), ILBEZX01 (Oakland, Walnut Point), ILODL02 Highland Silver), ILBPJ03 (Salt Fk. Vermilion R., Homer), ILD04 (Mauvaise Terre R.), ILBO07 (Little Vermilion R.), ILC19 (Little Wabash R.).

Project Location: Statewide

Subgrantee: Tetra Tech; Limno Tech; & Camp, Dresser, & McKee

01-15(319)BY

Title: Governor Bond Lake TMDL Implementation Plan Execution – Phase 1

Purpose: The Illinois EPA began executing the nonpoint source pollution control recommendations of the Governor Bond Lake Total Maximum Daily Load (TMDL) implementation plan. Three rural stormwater wetlands were constructed on tributaries to Governor Bond Lake (ILROP) to improve water quality, remove suspended and soluble nonpoint source pollutants, enhance habitat and aesthetics, and improve water retention and other beneficial hydrologic functions.

Project Location: Bond County

Project Reports and Other Informational Materials:

“Governor Bond Lake TMDL Implementation Phase 1 Stormwater Wetland Basins #1, #2, (Kingsbury Branch) & #3 (Dry Branch) – Final Report.” December 1, 2005. Heartland Ecosystem Services, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	24.54 ac.	5,975	1,200	1,280

01-16(319)ST

Title: Watershed Based Planning Assistance

Purpose: This project updated the Illinois EPA's draft "Guidance for Developing Watershed Implementation Plans in Illinois." This (WIP) guidance was revised to be consistent with the USEPA watershed based plan guidance, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. Other revisions were made to improve the format, content, and presentation of information contained within the Illinois EPA guidance. One workshop was held in northeastern Illinois and one in central Illinois to provide technical assistance to entities interested in undertaking comprehensive watershed management initiatives in Illinois. At the workshops, information was provided to assist these entities with the development of "watershed based plans" and educate them about the updated guidance document. The workshops also addressed the various forms of nonpoint source pollution, their impacts on the environment, methods for reducing nonpoint source pollution, and the importance of water quality protection.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
Suite 1800, 222 Riverside Plaza
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

"Guidance for Developing Watershed Action Plans in Illinois." June 2007. Chicago Metropolitan Agency for Planning.

01-17(319)SR

Title: Fourth Ward Yard Nonpoint Source Pollution Control Demonstration

Purpose: This project constructed a bioretention area, dry-well catch basin, and infiltration drain field to reduce and treat stormwater runoff before it is discharged to the South Branch Chicago River (ILHC01). The site will be used as a demonstration site for City of Chicago Department of Environment, Department of Transportation staff.

Project Location: Cook County

Subgrantee: City of Chicago
30 N. LaSalle
Chicago, Illinois 60602

Project Reports and Other Informational Materials:

"Fourth Ward Project Final Report." October 12, 2006. City of Chicago.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
845	Infiltration Trench	2 (no.)	?	0	7
945	Subsurface Drain	1 (no.)	?	0	3

01-18(319)CD

Title: Brewster Creek Monitoring Project

Purpose: This project continued the monitoring and assessment activities initiated under Financial Assistance Agreement Number 3190108 to demonstrate the effectiveness of the stream restoration and dam removal techniques implemented on Brewster Creek (ILDTZO01). Stream flow, sediment, geomorphic, and rainfall data were collected. Sediment delivery and hydraulic conveyance were monitored and evaluated so as to document water quality responses to the gradual dam removal technique. The monitoring program was designed to establish criteria on sediment delivery and hydraulic conveyance for the gradual removal of dams in northeastern Illinois. Furthermore, the project evaluated which field and laboratory methods will determine sediment compaction and stability when lake and sediment water levels are reduced by the gradual removal of the dam. The monitoring program included an assessment of sediment stability based upon existing data and newly gathered sediment data (i.e., sediment moisture and grain size). This aspect of the monitoring program was designed to evaluate the stability of the restored channel in Brewster Creek and the minimization of suspended sediment concentrations from the evolving stream channel when dams are gradually reduced.

Project Location: Kane County

Subgrantee: Kane County Department of Environmental Management
719 Batavia Avenue
Geneva, Illinois 60134

Project Reports and Other Informational Materials:

“Erosion Dynamics of a Stepwise Small Dam Removal, Brewster Creek Dam Near St. Charles, Illinois.” June 2007. Kane County Department of Environmental Management.

01-19(319)SR

Title: Lake Paradise Wetland Restoration Project

Purpose: The project restored twelve (12) acres of wetlands adjacent to Lake Paradise (ILRCG) to reduce erosion and nonpoint source pollution, and improve water quality through the installation of environmentally sound practices while protecting or enhancing aquatic habitat and aesthetic qualities. This project implements recommendations of a Phase 1 Diagnostic /Feasibility Study that was completed for Lake Paradise.

Project Location: Coles County

Subgrantee: City of Mattoon
208 N. 19th Street
Mattoon, Illinois 61938-2838

Project Reports and Other Informational Materials:

“Lake Paradise Wetland Restoration Project – Final Report.” September 2007. Goodpaster-Jamison, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	12 ac.	?	8	48

01-20(319)SR

Title: Brewster Creek Restoration Project

Purpose: This project implemented stream restoration activities on Brewster Creek (ILDTZO01) located at the YWCA camp in Elgin, Illinois to reduce nonpoint source pollution and enhance aquatic habitat. The activities and modifications included 1) installation of a small control structure (i.e., stone riffle) to prevent excessive headcut of the channel, 2) installation of biotechnical streambank stabilization techniques along an eroding section of Brewster Creek, and 3) implementation of wetland restoration measures (clearing or herbicide application to remove non-native or undesirable vegetation, controlled burns, re-vegetation with native wetland plugs and seed) along Brewster Creek.

Project Location: Kane County

Subgrantee: Kane County Department of Environmental Management
719 Batavia Avenue
Geneva, Illinois 60134

Project Reports and Other Informational Materials:

“Brewster Creek Restoration Project.” April 2007. Kane County Department of Environmental Management.

01-22(319)SR

Title: Silver Creek Stabilization

Purpose: This project stabilized 975 feet of eroding streambanks along a segment of Silver Creek (ILGM01), a tributary of the DesPlaines River, located in Melrose Park, Illinois. Streambanks were stabilized using stone toe protection, slope re-grading,

minor clearing of non-native vegetation, re-vegetation with native wetland plugs and seed, and riffles.

Project Location: Cook County

Subgrantee: Village of Melrose Park
1000 N. 25th Avenue
Melrose Park, Illinois 60160

Project Reports and Other Informational Materials:

“Silver Creek Streambank Stabilization project, Phase 1, Tributary to the Des Plaines River – Section 319 Project Report.” July 2007. Living Waters Consultants, Inc.

01-23(319)SR

Title: Ralph Welch Gully Stabilization

Purpose: This project stabilized a severely eroded gully located in the East Fork of the LaMoine River watershed. A 10 acre native prairie was restored at the Welch Educational Area located in McDonough County. Additionally, runoff controls were implemented on a small livestock operation in the watershed.

Project Location: McDonough County

Subgrantee: McDonough County SWCD
1607 West Jackson Street
Macomb, Illinois 61455

Project Reports and Other Informational Materials:

“Ralph Welch Gully Stabilization – Final Report.” September 2007. McDonough County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
313	Waste Storage Structure	1 (no.)	23	174	523
410	Grade Stabilization Structure	1 (no.)	153	153	306

01-24(319)JC

FFY 2002 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Priority Lake & Watershed Implementation Program

Purpose: Section 319 funding will be used to supplement the existing State funded (Conservation 2000) Priority Lake and Watershed Implementation Program (PLWIP). PLWIP is a reimbursement grant program designed to support lake protection, restoration, and enhancement activities at "priority" lakes where causes and sources of problems are apparent, project sites are highly accessible, project size is relatively small, and local entities are in a position to quickly implement needed treatments. Funding is provided for in-lake BMPs (i.e., shoreline stabilization, aerator/destratifier installation) and near-lake BMPs (i.e., dry dams, filter strips) that reduce nonpoint source pollution or mitigate their impacts. The first round of PLWIP projects will stabilize eroding shorelines of Glen Shoals Lake (1,000 feet at \$35,000), Royal Lakes (895 feet at \$44,000), Lake Carlinsville (275 feet at \$10,000), Kinkaid Lake (1,850 feet at \$40,000), and Herrin Old Lake (200 feet at \$16,000). Also, dredging (\$40,000) will be done on Charlie Brown Lake and a sediment basin (\$40,000) will be constructed for Veteran's Park Lake. A second round of PLWIP projects will install a new dam and spillway at Marine Reservoir (\$40,000), install rip rap at Governor Bond Lake (\$27,450), dredge Drost Park Lake (\$40,000), repair spillway and stabilize 300 feet of shoreline at Salem Reservoir (\$40,000), and continue dredging Charley Brown Lake (\$37,550).

NPS Program: Hydrologic Modification & Agriculture

Project Location: Counties of Montgomery, Macoupin, Williamson, Clay, Jefferson, Madison, Bond, Marion, & McLean.

Waterbody Name (ID): Glen Shoals Lake (ILROL), Royal Lakes (ILUDZL), Lake Carlinsville (ILRDG), Kinkaid Lake (ILRNC), Herrin Old Lake (ILRNZD), Charlie Brown Lake (ILRCV), Veteran's Park Lake (ILSNC), Marine Reservoir, Governor Bond Lake, Drost Park Lake, Salem Reservoir

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	?	?	?
580	Streambank/Shoreline Protection	4,820 ft.	163	138	275
007	Dredging	1 (no.)	?	?	?
014	Spillway Restoration	1 (no.)	?	?	?

02-0(319)AW

Title: North Fork Embarras Watershed Project – Phase 3

Purpose: This project protected and improved the water quality of the North Fork Embarras River (ILBEF05) watershed by reducing nonpoint source pollution through a continuation of the efforts initiated with Section 319 funding under federal fiscal years 1996 and 2000. A comprehensive program of sediment and nutrient reduction

was implemented that included watershed protection, information, and education efforts. Upland BMPs installed included 11 grassed waterways, 11 sediment basins, 19 water and sediment control basins, and 4 grade stabilization structures. Two streambank stabilization projects using longitudinal peak stone toe protection were installed on 250 linear feet of streambank on the main channel.

Project Location: Counties of Jasper and Clark

Subgrantee: North Fork Conservancy District
Post Office Box 7, 110 East Main
Casey, Illinois 62420

Project Reports and Other Informational Materials:

“North Fork Embarras Watershed Project – Final Report.” September 2004. North Fork Conservancy District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	6 (no.)	280	115	234
378	Pond	5 (no.)	184	48	93
410	Grade Stabilization Structure	4 (no.)	50.5	13.5	28
412	Grassed Waterway	11.1 ac.	85	85	173
580	Streambank/Shoreline Protection	250 ft.	64	57	115
638	Water & Sediment Control Basin	7,300 ft.	322	83	164

02-01(319)JC

Title: Nutrient Management Plan Implementation – Phase 2

Purpose: This project demonstrated to producers that Nutrient Management Plans should be an integral component to their farming operation. Producers were provided with an incentive payment to follow (not exceed) the nitrogen rate, timing, and application guidelines established by the University of Illinois within watersheds identified as having nitrate impaired waters. The short-term goal was to increase the number of acres managed according to nutrient management plans in the selected watersheds. The long-term goal was to maintain the number of acres managed with nutrient management plans in these watersheds after the project ends and to be able to demonstrate to other producers in the State the value of nutrient management planning. This project was a continuation of the effort initiated with Section 319 funding under FFY 2000. Traditional soil erosion control practices were also implemented under this project. The project also used aerial GPS video mapping to assess stream channel conditions within selected TMDL watersheds. The assessment data was used for effective planning for the implementation of conservation practices within TMDL watersheds for water quality protection and improvement.

Project Location: Statewide

Subgrantee: Illinois Department of Agriculture
 State Fairgrounds, P.O. Box 19281
 Springfield, Illinois 62794-9281

Project Period: 01/01/03 through 08/31/07

Project Reports and Other Informational Materials:

“Nutrient Management Plan Implementation – Phase II – Final Report.” March 7, 2008. Illinois Department of Agriculture.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
329	Conservation Tillage	295.7 (ac.)	521	677	1,353
342	Critical Area Planting	0.75 (ac.)	80	79	156
410	Grade Stabilization Structure	8 (no.)	92.7	95	189
412	Grassed Waterway	36.65 (ac.)	944.3	972.4	1,944.8
512	Pasture & Hayland Planting	377.6 (ac.)	627.2	817	1,630
580	Streambank/Shoreline Protection	14,367 (ft.)	2,293	2,262	4,367
590	Nutrient Management	22,818 (ac.)			
600	Terrace	2,636 (ft.)	78.1	99	198
638	Water & Sediment Control Basin	15,175 (ft.)	1,997.2	1,716	3,432

02-02(319)JC

Title: Livestock Winter Feed Stations Demonstrations

Purpose: This project acted as a model for livestock operations throughout the state by creating “winter feed stations” that assist in the reduction of nonpoint source pollutants caused by the concentrated animal densities typically associated with winter feeding. The stations included downspouts and gutters, heavy use area protection, stacking areas, water storage/control structures, and water level drawdown/re-filling. One 30 head and two 60 head feed stations were constructed in different locations in the Sugar Creek (ILOH05) watershed and included manure storage. This practice reduced the number of locations that farmers have to occupy during wet a wet season to feed and manage their herd. The practice provided stabilized feeding areas to minimize erosion that in combination with the dry stacked waste also reduces the runoff and leaching of nutrients. The perimeter of the feed station was designed to accept this traffic through the use of geofabric and gravel to handle the herd and reduce ground destruction and material loss. The design, construction, and benefits of the stations were documented in a final report and an educational booklet.

Project Location: Counties of Madison & Clinton

Subgrantee: Southwestern Illinois Resource Conservation & Development Area
 406 East Main
 Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

“Livestock Winter Feed Stations – A Feed and Waste Management Structure Designed to Improve Water Quality.” 2004. Southwestern Illinois Resource Conservation & Development Area.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
570	Runoff Management System	3 (no.)	?	74	534
600	Terrace	900 Ft.	28	28	56

02-03(319)CD

Title: Green Roof System to Reduce Urban Runoff

Purpose: This project addressed urban runoff nonpoint source impacts to Salt Creek (ILGL09) and demonstrated innovative, infiltration based stormwater management approaches for highly impervious areas. A “green roof” system was designed and constructed on the Conservation Design Forum’s office building to reduce runoff and pollutant loading and serve as a prototypical green roof to educate local communities and businesses about this management practice. A green roof was constructed on each of the three separate roofs on the CDF building and incorporated distinctly different designs (i.e., different thickness, growing media size, vegetation. etc.). Measurement equipment was installed to quantify reductions in runoff volume. The project also included an educational component involving tours and brochures. Salt Creek is a Category 1 watershed in the Unified Watershed Assessment and a TMDL and implementation plan is near completion.

Project Location: DuPage County

Subgrantee: Conservation Design Forum
375 West First Street
Elmhurst, Illinois 60126

Project Reports and Other Informational Materials:

“A Green Roof Comparison Project: by Conservation Design Forum: Green Roof System to Reduce Urban Runoff – Final Report.” January 2005. Conservation Design Forum.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
011	Green Roof System	0.16 ac.	?	?	1

02-04(319)ST

Title: NPS Program Implementation Assistance

Purpose: The Association of Illinois Soil and Water Conservation Districts (AISWCD) dedicated one full time staff equivalent to act as a liaison between the AISWCD and the Illinois EPA and assist the Illinois EPA in implementing Illinois' Nonpoint Source Management Program. The liaison provided educational, informational and technical assistance to Soil and Water Conservation Districts (SWCDs), agricultural producers and other interested parties to help them better understand programs implemented under Sections 319(h), 305(b) and 303(d) of the Clean Water Act. The liaison encouraged SWCDs and producers to participate in watershed planning and nutrient management planning where appropriate. Three watershed planning processes were started (or continued) during the first year of this contract and four the second year. The liaison acted as a coordinating mechanism for the delivery of federal/state water quality related programs (i.e. EQIP, CPP, SSRP, CREP, 319 and ICLP). The liaison advertised programs, gave talks, met with landowners and acted as a tool to spread the word about how each of these programs can benefit water quality. The liaison acted as an overall facilitator for water quality coordination between SWCDs, Illinois EPA and other state/federal agencies.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

"Nonpoint Source Program Implementation Assistance Final Report." April 2006. Association of Illinois Soil and Water Conservation Districts

02-05(319)CD

Title: Northern Illinois Community Assistance Office

Purpose: This project provided training to Natural Resource Conservation Service regional staff on water quality regulations and technical issues. Furthermore, the project encouraged the provision of nonpoint source pollution control related technical assistance to appropriate local agencies and organizations in northeastern Illinois. The Natural Resources Conservation Service's Northeastern Illinois Community Assistance Office was established to serve the six county northeastern Illinois area. This office provided technical assistance to soil and water conservation districts, planning commissions, county departments, townships and municipalities in northeastern Illinois. In addition to direct technical assistance, the staff of this office provided information/education and training assistance. The major focus of the office was on erosion/sediment control, water quality, and natural resource management.

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

Subgrantee: USDA Natural Resources Conservation Service
603 East Diehl Road, Suite 131
Naperville, Illinois 60563-1476

02-06(319)SR

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Association of Illinois Soil & Water Conservation District (AISWCD) subcontracted with eleven (11) SWCDs to hire staff to facilitate the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conduct field visits to determine program eligibility. The SWCDs completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtained the necessary producer signatures on required documents, and completed all state CREP enrollment forms. The SWCDs coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of Cass, Schuyler, McDonough, Hancock, Peoria, Tazewell, Fulton, Knox, Bureau, Marshall, Putnam, Sangamon, Menard, Christian, Shelby, Montgomery, Grundy, LaSalle, Kankakee, Iroquois, Morgan, Scott, and Greene, & Macoupin

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

02-07(319)BL (JC)

Title: Lake Galena Watershed Project

Purpose: This project reduced nonpoint source (NPS) pollution delivered to Lake Galena (ILRMM) through the installation of best management practices (BMPs) adjacent to the lake and within the watershed. BMPs were used to stabilize approximately 2,250 feet of eroding shoreline along Lake Galena and establish, where possible, a buffer of native vegetation along the shoreline to reduce erosion, filter runoff, and enhance aquatic habitat. The project also involved the installation of approximately 1,140 feet of BMPs (i.e., rip-rap, jetties, minor stream regarding, fiber roll, vegetative stabilization) on Smallpox and Noname Creeks to stabilize eroded streambanks. Approximately 4,480 feet of BMPs (i.e., drainage way reshaping, grade stabilization, riprap, vegetative stabilization) were also installed to stabilize eroding drainage ditch banks.

Project Location: JoDaviess County

Subgrantee: Galena Territory Association
 2000 Territory Drive
 Galena, Illinois 61036

Project Reports and Other Informational Materials:

Lake Galena Watershed Project – Final Report.” April 2004. Galena Territory Association.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	3,390 ft.	634	633	1,266
581	Ditch Stabilization	4,480 ft.	159	163	320

02-08(319)ST

Title: Morton Arboretum Parking Lot Runoff Control

Purpose: The Morton Arboretum enlarged their main parking lot, which lies adjacent to and between Meadow Lake (ILWGA) and the East Branch of the DuPage River (ILGBL10). The Arboretum installed best management practices (BMPs), which will reduce the amount of nonpoint source pollution to both waterbodies. The parking lot included bioswales, pervious materials, a gravel drainage layer, and a level spreader. The Project also included interpretive signs (Arboretum estimates 750,000 visitors annually), and pre- and post-workshops designed for city managers, developers, engineers, watershed planners and managers. The TMDL and implementation plan for the East Branch DuPage River is complete.

Project Location: DuPage County

Subgrantee: The Morton Arboretum
 4100 Illinois Route 53
 Lisle, Illinois 60532-1293

Project Reports and Other Informational Materials:

“The Morton Arboretum Main Parking Lot Runoff Control Project Final Report. January 2006. Christopher B. Burke Engineering West, Ltd.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
800	Urban Stormwater Wetland	1 (no.)	?	11	33
835	Urban Filter Strip	1.0 ac.	?	3	10
870	Level Spreader	1 (no.)	?	9	?
890	Porous Pavement	4.13 ac.	?	13	130
910	Rock Outlet Protection	1 (no.)	?	?	?

02-09(319)CD

Title: North Branch Chicago River Watershed Project

Purpose: Project partners implemented a variety of best management practices (BMPs) within the watershed. The types of BMPs (green roof, streambank stabilization, wetland restoration, detention basin retrofit, stormwater wetlands, bioswales, porous pavement) were identified in the North Branch Chicago River (ILHCC08) Watershed Management Plan. In addition, the project partners continued to implement an outreach program for adults and children focusing on nonpoint source pollution control and water quality. The applicant investigated and documented the need for changes to local administrative policy, procedure and regulations to meet the plan's goals and objectives.

Project Location: Counties of Cook and Lake

Project Reports and Other Informational Materials:

"North Branch Watershed Project Implementation – Phase 3 Final Report." July 15, 2007. Friends of the Chicago River.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
010	Oil & Grit Separator	1 (no.)	?	0	3
011	Green Roof	0.1 ac.	?	?	?
580	Streambank/Shoreline Protection	10,500 ft.	1089	1072	2144
657	Wetland Restoration	4.88 ac.	43	48	120
666	Woodland Improvement	37 ac.	?	?	?
800	Urban Stormwater Wetland	4 (no.)	?	221	947
835	Urban Filter Strip	0.1 ac.	?	7	15
890	Porous Pavement	0.33 ac.	?	5	53

02-10(319)CD

Title: Addison Creek Streambank Stabilization

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of approximately 3,750 feet of eroding streambanks along a 2,063 foot segment of Addison Creek (ILGLA02) located in Northlake, Illinois. Bioengineering techniques (i.e., re-grading, A-jacks with vegetation, vegetation with Stabilator toe, rip rap, and vegetated gabion baskets) were used. Addison Creek is a tributary of Salt Creek. Salt Creek is a Category 1 watershed in the Unified Watershed Assessment and is included on Illinois 303d list. The TMDL and implementation plan for Salt Creek is nearly complete.

Project Location: Cook County

Subgrantee: Addison Creek Conservancy District
P.O. Box 2381
Northlake, Illinois 60164

Project Reports and Other Informational Materials:

“Addison Creek Streambank Stabilization Project – Final Report.” November 2004.
Christopher B. Burke Engineering, Ltd.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	3,750 ft.	298	252	504

02-11(319)SR

Title: Otter Lake In-Lake Sediment Control Project

Purpose: Section 319 funding was used to design and construct a low water sedimentation control structure in the north end of Otter Lake (ILRDF). This structure provided a controlled sediment basin, controlling sediment and associated pollutants entering from the West Fork of Otter Creek. The project also stabilized 5,000 feet of eroding shoreline through barge applied rip rap. Otter Lake is on Illinois’ Section 303(d) list. Although TMDL development has not yet been scheduled, a watershed-based plan (Phase 1 Diagnostic-Feasibility Study) has been developed which identifies the pollutants causing water quality impairments and describes best management practices (BMPs) to be implemented to solve water quality problems.

Project Location: Macoupin County

Subgrantee: Otter Lake Water Commission
6475 West Montgomery Road
P.O. Box 468
Virden, Illinois 62690

Project Reports and Other Informational Materials:

“Otter Lake In-Lake Sedimentation Control Project.” June 1, 2007. Otter Lake Water Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	5,000 ft.	391	391	781
350	Sediment Basin	1 (no.)	6,349	61	122

02-12(319)CD

Title: E. Br. DuPage R. Trib. No. 6 Stream Restoration

Purpose: Approximately 1,379 feet of eroding streambank along an unnamed stream, tributary number 6 of the East Branch DuPage River (ILGBL10), was stabilized by restoring a more natural floodplain terrace (removal of non-native and invasive shrubs and trees, selective bank excavation, re-vegetation with native herbaceous plant species) and bioengineering techniques (re-grading, vegetation, erosion control blanket, coir fiber roll, A-jacks, riffles). The installed practices were designed to protect streambanks and enhance water quality. The East Branch DuPage River is a Category 1 watershed in the Unified Watershed Assessment and is included on Illinois 303d list. The TMDL and implementation plan for the East Branch DuPage River are complete.

Project Location: DuPage County

Subgrantee: Hobson Creek Community Council
23W420 Country Court
Naperville, Illinois 60540

Project Reports and Other Informational Materials:

“Hobson Creek Corridor Restoration Project, Phase 1 Tributary 6 to the East Branch DuPage River – Section 319 Project Report.” December 2004. Ted Gray & Associates, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,379 ft.	120	120	239

02-13(319)ST

Title: Vandalia Lake WQ Information & Education

Purpose: A total of six watershed newsletters were developed and published over the course of the Agreement Period and mailed to all the farmers in the Vandalia Lake (ILROD) watershed, the Vandalia Lake residents, and the residents of the City of Vandalia, various local libraries, school libraries and the Illinois EPA. A Geographic Information System (GIS) study was conducted and GIS overlays developed of the Watershed, depicting land use, soils (including location of all sodium soils), topography, and erosion potential. The Fayette County Soil & Water Conservation District planned, coordinated, and held a Lake Awareness day for all the fifth and sixth graders in the Vandalia School District. The event educated the youth on the importance of improving water quality and reducing non-point source pollution in the Watershed. A Nutrient Management Workshop (Workshop) was also organized and held for the landowners in the watershed.

Project Location: Fayette County

Subgrantee: Fayette County Soil & Water Conservation District
301 South Third Street
Vandalia, Illinois 62471

02-14(319)BL

Title: Ravinia Neighbors Association Sewer Stencil

Purpose: The Ravinia Neighbors Association coordinated a storm drain stencil project to educate the citizens of Highland Park, Illinois about urban nonpoint pollution and how to reduce urban nonpoint source pollution within this community. A stenciling event was held on the five Saturdays during the month of May in 2003 and 2004. A Storm Drain Data Card was created and filled out for all storm drains that were stenciled. The data cards included a description of the area that surrounds the storm drain to be stenciled and identified all the possible nonpoint source pollutants within six feet of each side of the storm drains.

Project Location: Lake County

Subgrantee: Ravinia Neighbors Association
P.O. Box 804
Highland Park, Illinois 60035

02-15(319)BL

Title: Secret Agent Worm Website

Purpose: This project developed and placed on-line (linked to Illinois EPA's website) an interactive website based on the "Secret Agent Worms" book series to help children understand nonpoint source pollution, its causes, sources, and solutions.

Project Location: Statewide

Subgrantee: The University of Illinois
801 South Wright Street
Champaign, Illinois 61820

02-16(319)BL

Title: Rainfall Simulator/Crop Residue Demonstration

Purpose: The Embarras River Management Association purchased six Rainfall Simulator/Crop Residue Demonstration Units (Simulator) and trailers. The Simulators and trailers were supplied to six county Soil and Water Conservation Districts (SWCDs) that shared the Simulators' use and ownership with six other SWCDs all in the Embarras River Watershed. These Simulators were used by the Natural Resource Conservation Service and Soil and Water Conservation District personnel at

conservation education field days and tours to demonstrate the value of crop residues in reducing soil erosion and nutrient leaching.

Project Location: Counties of Champaign, Vermillion, Douglas, Edgar, Coles, Cumberland, Clark, Jasper, Crawford, Richland, and Lawrence.

Subgrantee: Embarras River Management Association
P.O. Box 278
Toledo, Illinois 62468

Project Reports and Other Informational Materials:

“Rainfall Simulator Unit Instruction Manual.” 2004. Embarras River Management Association.

“Rainfall Simulator Presentations 2003 – 2004.” 2004. Embarras River Management Association.

“Rainfall Simulator Units Project Final Report.” October 18, 2004. Embarras River Management Association.

02-17(319)BL

Title: Big Rivers Rising

Purpose: The John G. Shedd Aquarium duplicated 700 copies of the videotape production “Big Rivers Rising” developed under Financial Assistance Agreement Number 3190112 between the Illinois EPA and the John G. Shedd Aquarium. The Recipient distributed these videotape copies in accordance with the Promotion and Distribution Plan (Plan) developed under Financial Assistance Agreement Number 3190112 between the Illinois EPA and the John G. Shedd Aquarium.

Project Location: Statewide

Subgrantee: John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605

02-18(319)SR

Title: Manure Management Workbook

Purpose: This project revised, edited and standardized existing Microsoft Word/Excel files into a workbook format, printed 1,000 copies of the workbook, and produced a CD version of the workbook. Three workshops were held to educate individuals on how to best use the Manure Management Workbook.

Project Location: Statewide

Subgrantee: Board of Trustee of University of Illinois
109 Coble Hall, 801 South Wright Street
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

02-19(319)BL

Title: Tazewell County SWCD - Talbott Streambank Stabilization

Purpose: This project stabilized 650 feet of eroding streambanks on Horseshoe Creek, a tributary of the Mackinaw River, to reduce erosion in order to improve water quality and reduce nonpoint source pollution.

Project Location: Tazewell County

Subgrantee: Tazewell County Soil & Water Conservation District
2934 Court Street
Pekin, Illinois 61554

Project Reports and Other Informational Materials:

“Illinois EPA Section 319 Small Project Final Report – Tazewell County SWCD- Talbott Streambank Stabilization Project.” June 12, 2006. Tazewell County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	640 ft.	159	136	270

02-20(319)CD

Title: Long Lake Shoreline Stabilization

Purpose: The project stabilized 475 feet of severely eroding shoreline on a section of Long Lake (ILRTJ) located in Lake County, Illinois. The project arrested shoreline erosion and reduced nonpoint source pollution through the installation of environmentally sound practices (i.e., excavation and re-grading, permanent turf reinforcement matting, rock toe protection, native vegetation planting) while protecting or enhancing habitat and aesthetic qualities. Three educational signs were also installed at the project site, which describe, in a non-technical manner, the shoreline stabilization in terms of its design, construction, function, cost, and benefits.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission
233 South Wacker Drive, Suite 800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Long Lake Shoreline Stabilization Project.” February 2008. Chicago Metropolitan Agency for Planning.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	475 ft.	144	144	287

02-22(319)SR

Title: Kickapoo Creek Monitoring Project

Purpose: This project provided support and coordination for the Kickapoo Creek Monitoring Project. Fecal Coliform bacteria sampling and analysis were conducted. Surface water monitoring of Kickapoo Creek were conducted along with the collection of stream flow data and fish and invertebrate sampling.

Project Location: McLean County

Subgrantee: City of Bloomington
109 East Olive Street
Bloomington, Illinois 61701-5219

02-23(319)JC

Title: Web-Based Illinois Manure Management Planner

Purpose: This project helped fund the creation of a web-based Illinois Manure Management Planner (IMMP). This IMMP will streamline the task of developing a manure management plan for the producer. Important features of the IMMP include electronic transfer capability of required reports to agencies, recordkeeping, and email reminders of user-defined dates for inspections.

Project Location: Statewide

Subgrantee: The Board of Trustees of the University of Illinois
1901 South First Street, Suite A
Champaign, Illinois 61820

02-24(319)JC

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

02-(319)BY

FFY 2003 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Lake Arlann Silt Abatement Project

Purpose: This project retrofitted an existing 25 year old sediment basin, stabilized 1,700 feet of eroding ravines by using check dams, rip rap, and vegetation. The project also included dredging 483,455 cubic yards of silt from the lake. The cost of dredging (\$2,494,428) was paid entirely with local funding and used only as match under the project.

Project Location: Tazewell County

Subgrantee: Lake Arlann Drainage District
2009 Alameda Ct.
Pekin, Illinois 61554

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
007	Dredging	1 (no.)	?	?	?
350	Sediment Basin	1 (no.)	40.6	119	774
580	Streambank/Shoreline Protection	1,700 ft.	122	122	245

03-01(319)BL (JC)

Title: Evaluation of N Management Practices

Purpose: A field scale experiment was established to evaluate the impact of best management practices (BMPs) on the potential for N loss from tile lines and the economic production of corn. A total of 54 tile lines (27 in each of 2 fields) were instrumented to allow for collection of tile flow volume and to allow for collection of flow regulated composite samples collected on a weekly bases for nitrate-N analysis. The selected fields were in a corn-soybean rotation, with one in corn each year and the other in soybean. A total of 9 treatments, in a randomized complete block design with 3 replications were applied when the field was in corn. The treatments consisted of 5 fall applications –0, 78, 157, and 235 lb N/acre as anhydrous ammonia, 157 lb

N/acre as anhydrous ammonia with N-Serve, 3 spring pre-plant applications-78, 157, and 235 lb N/acre as anhydrous ammonia, and 1 side-dress treatment, 157 lb N/acre as anhydrous ammonia. Corn grain yield and total N uptake were collected from each individual treatment. Soil samples were collected from all 54 plots in 30 cm increments to a 120 cm depth in the fall after harvest and analyzed for nitrate-N. Soil samples were collected from each plot area to a depth of 30 cm for Illinois N Soil Test analysis. Data collected in this study was used to prepare educational materials, including power point presentations, fact sheets, and an article for the Illinois Corn and Soybean Classics publication.

Project Location:

Subgrantee: University of Illinois Urbana – Champaign
1102 S. Goodwin Avenue
Urbana, Illinois 61801

Project Reports and Other Informational Materials:

“Evaluation of N Management Practices on the Environmental Fate of N and Corn Yield.” May 12, 2006. University of Illinois.

03-02(319)ST (JC)

Title: Conservation Practices Mapping and Assessment

Purpose: This project expanded the conservation mapping system of the Illinois Department of Natural Resources (IDNR) to include best management practices implemented with funding under Section 319 of the Clean Water Act. The previous system maps only CRP, CREP, WHIP, and EQIP. This project mapped conservation activities occurring within Prairie Rivers RC&D and estimated environmental impacts. The Recipient 1) reviewed and modified the Illinois Conservation Practices Tracking System (ICPTS) to allow the addition of 319 projects, BMPs, and related characteristics; 2) developed an on-line, interactive web tool that allows staff to identify locations of existing 319 projects, digitize their locations, enter relevant ID's and other information; 3) entered 319 projects and conservation practices into the modified ICPTS using the on-line web tool and trained local staff in its use; and 4) modified Illinois EPA's existing sediment and load reduction estimation process to fit the data being entered into ICPTS.

Project Location: Counties of Bureau, LaSalle, Livingston, Marshall, Putnam, Peoria, Stark, Tazewell, and Woodford.

Subgrantee: Prairie Rivers RC&D
400 Edwards Street
Henry, Illinois 61537

Project Reports and Other Informational Materials:

“Conservation Practices Mapping and Assessment Project – Final Report.” August 15, 2005. Prairie Rivers Resource Conservation & Development.

03-03(319)CD

Title: Watershed Planning in Northeastern Illinois

Purpose: The Northeastern Illinois Planning Commission (NIPC) provided coordination and technical assistance to entities (local governments, soil and water conservation districts, planning committees, businesses, volunteer organizations, etc.) undertaking comprehensive watershed management initiatives in northeastern Illinois. NIPC assisted these entities with the development of “watershed based plans” and Watershed Implementation Plans (WIPs), as defined by the Illinois EPA. Priority was given to those watersheds that contain nonpoint source pollution control projects funded by the Illinois EPA and those within Clean Water Act 303(d) listed waters as identified by the Illinois EPA. NIPC assisted these entities in the compilation and evaluation of resource inventory data, formulation of water quality objectives, selection and implementation of nonpoint source pollution control practices, dissemination of information/education materials for water quality protection, and evaluating program success.

Project Location: Counties of Cook, Lake, McHenry, DuPage, Will, and Kane

Subgrantee: Northeastern Illinois Planning Commission
Suite 1800, 222 South Riverside Plaza
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Thorn Creek Watershed Based Plan.” December 2005. Northeastern Illinois Planning Commission.

03-04(319)SR

Title: Northeastern Illinois Stream Restoration Inventory

Purpose: The Northeastern Illinois Planning Commission (NIPC), in cooperation with Chicago Wilderness, created a set of recommended practices for stream restoration in northeastern Illinois and publicized these recommendations through training workshops for regulators, consultants, and municipalities, and through the production of an educational DVD about how to use stream restoration practices to enhance biodiversity in the region. The first phase involved conducting a survey of firms, agencies, and groups that have been involved in stream restoration in order to understand what techniques have been used, where they have been used, their applicability under different conditions, and their costs. The following restoration practices of interest included: streambank stabilization, riparian buffer restoration, in-stream restoration, channel re-meandering, and dam modification and removal.

Project Location: Counties of Cook, Lake, McHenry, DuPage, Will, and Kane

Subgrantee: Northeastern Illinois Planning Commission
Suite 1800, 222 South Riverside Plaza
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Analysis of Northeastern Illinois Stream Restoration Projects.” (DVD) October 2004. U.S. Geologic Survey.

“Stream Restoration Inventory Final Report.” April 2005. Northeastern Illinois Planning Commission.

03-05(319)SR

Title: Mitchell Park Ravine Watershed Project – Phase 2

Purpose: This project focused on soil erosion control and water quality in an urban watershed tributary to the Mississippi River (ILM03). Soil erosion control was improved in six areas within the Mitchell Park ravine watershed. Water quality improvements in these areas were determined to be a high priority by the East Moline Stormwater Committee. This project utilized proven soil erosion and sediment control and stormwater management techniques as planned in consultation with USDA-NRCS. Practices include culvert extensions, cover and re-vegetation, streambank re-grading, installation of a drop structure, and placement of rip rap. This project was a continuation of a project initiated with funding under Illinois FFY 1998 Section 319 grant.

Project Location: Rock Island County

Subgrantee: City of East Moline
912 – 16th Avenue
East Moline, Illinois 61244

Project Reports and Other Informational Materials:

“Final Report for City of East Moline Mitchell Park Ravine Watershed Project.” September 2006. Landmark Engineering Group, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
410	Grade Stabilization	1 (no.)	695	695	1,391
580	Streambank/Shoreline Protection	52 ft.	26	26	55
910	Rock Outlet Protection	1 (no.)	135	135	271

03-06(319)ST

Title: Roof Greening Project

Purpose: This project addressed urban runoff nonpoint source impacts to Lincoln Park North Pond (ILQZK) and demonstrated innovative, infiltration based stormwater management approaches for highly impervious areas. Green roof systems were designed and constructed on The Peggy Notebaert Nature Museum's roofs to reduce runoff and associated nonpoint source pollutants; improve water quality, habitat quality, and the quality of recreational opportunities; and provide educational opportunities. The project absorbed and filtered rainfall, thereby decreasing nonpoint source pollution to the North Pond while demonstrating how green roofs can be adapted to existing buildings and explaining their benefits to encourage widespread application in other areas. Interpretive signage and exhibit components were installed to educate visitors about nonpoint source pollution, its effect on water quality, and the environmental benefits and cost-effectiveness of rooftop gardens. A computer kiosk allows visitors to gather data about the green roofs, including temperature, wind, and rainfall. Visitors are able to compare data to conventional roofs. Visitors are able to create their own green roof using the computer and see results in efficiency, environmental impact, and aesthetics. Information on this computer can also be accessed over the Web. A 360-degree web camera was installed to allow visitors to take a virtual/remote tour of the green roof. The camera tour highlights the variety of plants, data collecting instruments, and environmental benefits. Interpretive labels including pictorial information reference roof views, explain the process of creating rooftop gardens, and illustrate environmental benefits, including nonpoint source pollution control. A software presentation was also developed to document the installation process and explain the technical aspects of installation, nonpoint source benefits, and other cost-benefit considerations.

Project Location: Cook County

Subgrantee: The Peggy Notebaert Nature Museum
2430 Cannon Drive
Chicago, Illinois 60614

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
011	Green Roof System	0.34 ac.	?	?	1
342	Critical Area Planting	0.21 ac.	?	?	?

03-08(319)SR

Title: Muddy Waters Pond Restoration

Purpose: This project included 1,240 feet of shoreline stabilization along with wetland and upper prairie restoration around an in-stream detention basin on St. Joseph's Creek, a tributary of the East Branch DuPage River. The Village of Westmont and the Westmont Park District restored and naturalized the pond at Muddy Waters Park.

Native plants, natural materials and a man-made wetland zone stabilized the banks and improved water quality and aided in the reduction of eutrophic conditions that occur in the pond each summer. Public outreach and education activities were also implemented. East Branch DuPage River is included on Illinois 303d list. The TMDL and implementation plan for the East Branch DuPage River are nearly complete.

Project Location: DuPage County

Subgrantee: Village of Westmont
31 West Quincy
Westmont, Illinois 60559

Project Reports and Other Informational Materials:

“Final Report for Muddy Waters Pond Restoration Project.” June 2006. Conservation Design Forum

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,240 ft.	86	86	173

03-09(319)ST

Title: Villa Park Urban BMP Demonstration

Purpose: This project reduced nonpoint source pollution from a new police station constructed on the site of an existing parking lot in downtown Villa Park, Illinois. A 3,410 square foot green roof system was constructed on top of the new police station. The project also included construction of a parking lot and plaza that uses a system of pervious pavement (8,057 square feet) and biofiltration swales and underground storage (7,176 square feet) to treat and infiltrate runoff from the site. Precipitation and runoff leaving the site was measured during the project period and a hydrologic model was constructed to estimate the long term runoff reduction from the site relative to more conventional stormwater systems. The project also included tours and a brochure. Salt Creek (ILGL09) was a Category 1 watershed in the Unified Watershed Assessment and is included on Illinois 303d list. The TMDL and implementation plan for Salt Creek is nearly complete.

Project Location: DuPage County

Subgrantee: Village of Villa Park
20 S. Ardmore Avenue
Villa Park, Illinois 60181

Project Reports and Other Informational Materials:

“Villa Park Police Station Urban BMP Demonstration Project – A Project to Demonstrate Integration of Green Roof, Permeable Paving, and Bioswale Urban Runoff Systems.” July 19, 2005. Village of Villa Park.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
011	Green Roof System	0.08 ac.	?	?	?
835	Urban Filter Strip	0.17 ac.	?	?	?
890	Porous Pavement	0.19 ac.	?	?	2

03-10(319)SR

Title: Springbrook Creek Stream Meandering

Purpose: This project recreated two miles of meandering stream channel combined with wetland and floodplain restoration along a segment of Springbrook Creek (ILGB11) located in the Springbrook Prairie Forest Preserve in DuPage County. The project created a meandering stream channel that is connected with the historic floodplain that will serve to absorb large volumes of water and dissipate energy in large storm events. The project reduced the erosive force of water in the stream, stabilized streambanks, and enhanced riparian habitat. Springbrook Creek is a tributary of the DuPage River.

Project Location: DuPage County

Subgrantee: Forest Preserve District of DuPage County
3 S. 580 Naperville Road
Wheaton, Illinois 60187-8761

Project Reports and Other Informational Materials:

“Springbrook Creek Stream Meander Project – Final Report.” June 30, 2008. Forest Preserve District of DuPage County.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
009	Stream Channel Restoration	10,990 ft.	3,237	1,619	1,619

03-11(319)CD

Title: Governor Bond Lake Stormwater Basin No. 4

Purpose: This project continued executing the nonpoint source pollution control recommendations of the Governor Bond Lake Total Maximum Daily Load (TMDL)

implementation plan. Under this project, a rural stormwater wetland was constructed on Dry Branch, a tributary to Governor Bond Lake (ILRDP), to improve water quality, remove suspended and soluble nonpoint source pollutants, enhance habitat and aesthetics, and improve water retention and other beneficial hydrologic functions. This basin also provides access near a paved road to facilitate visitation from members of the public, and was constructed and operated in such a manner as to allow for development of a public education program. In particular, this facility contains all the standard components seen in the other basins such as a forebay, control structure which mimics a natural hydroperiod in the forebay's littoral zone, a receiving wetland/marsh with meanders and interspersed terrestrial and aquatic zones to remove nutrients and coincidentally create high quality habitat. In addition, the paved road access was further enhanced by addition of a boardwalk and observation deck constructed to allow viewing of all pertinent features.

Project Location: Bond County

Subgrantee: City of Greenville
404 South 3rd Street
Greenville, Illinois 62246

Project Reports and Other Informational Materials:

“Governor Bond Lake TMDL Implementation Stormwater Wetland Basin #4 (Dray Branch) – Final Report.” December 1, 2005. Heartland Ecosystem Services, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	1.85 ac.	679	?	?

03-12(319)ST

Title: Fox Point North – Flint Creek Streambank Stabilization

Purpose: This project stabilized 2,600 feet of eroding streambanks along an 1,300 foot segment of Flint Creek (ILDTZS01), a tributary to Lake Louise & Fox River, through the clearing on non-native vegetation, minor re-grading, and installation of native plant communities, boulders, J-hooks, cross vanes, crib wall, and other bio-engineering techniques. The Fox River is included on Illinois’ 303(d) list. The “Flint Creek Drainage Basin Needs Assessment Report” and “Flint Creek Watershed Action Plan” were completed in 1993 and 1994, respectively. Flint Creek is also part of the 1997 “Integrated Management Plan for the Fox River Watershed in Illinois.”

Project Location: Lake County

Subgrantee: Village of Barrington
200 South Hough Street
Barrington, Illinois 60010

Project Reports and Other Informational Materials:

“Fox Point North Subdivision – Flint Creek Restoration Project.” March 11, 2005. Applied Ecological Services, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,600 ft.	124	124	250

03-13(319)SR

Title: Lake Springfield Watershed BMP Implementation

Purpose: By assisting USDA Natural Resources Conservation Service’s Conservation Reserve Program, this project resulted in the installation of 599.8 acres of new filter strips along feeder streams within the Lake Springfield (ILREF) watershed by providing an additional \$200/ac. one-time incentive payment to landowners for the fifteen-year commitment.

Project Location: Sangamon County

Subgrantee: Sangamon County Soil & Water Conservation District
40 Adloff Lane, Suite 7
Springfield, Illinois 62703-4441

Project Reports and Other Informational Materials:

“Lake Springfield Watershed Best Management Practice Implementation Filter Strip Incentive Program – Final Report.” January 2007. Sangamon County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
393	Filter Strip	599.8 ac.	5,375	7,577	14,934

03-15(319)CD

Title: Addison Creek Riparian Restoration

Purpose: This project restored 1.29 acres of riparian wetlands and stabilized eroding streambanks along an approximately 1,300-foot segment of Addison Creek (ILGA02) located in Northlake, Illinois. The design included re-grading streambanks and establishing a thirty (30) foot wide wetland (1.29 acres total) on each side of the 1,300 foot long stream segment. The wetland included emergent vegetation, scrub shrub interspersed plantings, and wet-mesic prairie. Bioengineering streambank stabilization practices were used (i.e., selective tree

removal for increased light penetration; clearing invasive and controlling exotic plant species by cutting and herbiciding; planting native forbs, grasses, and sedges; re-grading; stone toe protection; riffles).

Project Location: Cook County

Subgrantee: City of Northlake
55 East North Avenue
Northlake, Illinois 60164

Project Reports and Other Informational Materials:

“Addison Creek Riparian Restoration Project.” June 2006. Christopher B. Burke Engineering, Ltd.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,250 ft.	124	124	249
657	Wetland Restoration	1.29 ac.	75	75	149

03-16(319)SR

Title: Hillsboro Lake Stormwater Wetland No. 1 Project

Purpose: This project involved the construction of a sediment basin and seven rock check dams along with the enhancement of a stormwater wetland on a ravine tributary to Hillsboro Lake (ILROT). The practices were designed to improve water quality, remove suspended and soluble nonpoint source pollutants, enhance habitat and aesthetics, and provide water retention and other beneficial hydrologic functions.

Project Location: Montgomery County

Subgrantee: City of Hillsboro
447 South Main Street
Hillsboro, Illinois 62049

Project Reports and Other Informational Materials:

“Hillsboro Lake, City of Hillsboro, Illinois Stormwater Wetland Basin #1 (Southwest Ravine Tributary to Hillsboro Lake) Final Report.” July 14, 2005. Heartland Ecosystem Services, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	162	160	319
410	Grade Stabilization Structure	7 (no.)	?	?	?
800	Urban Stormwater Wetland	1 (no.)	?	?	?

Title: Lake Vermilion Shoreline Stabilization Project

Purpose: This project installed shoreline stabilization best management practices (i.e., riprap, geotextile fabric, vegetation) on 9,414 linear feet of eroded shoreline on Lake Vermilion (ILRBD) to reduce nonpoint source pollution and enhance aquatic habitat.

Project Location: Vermilion County

Subgrantee: Consumers Illinois Water Company
1300 West Fairchild Street
Danville, Illinois 61832

Project Reports and Other Informational Materials:

“Phase 2 Implementation Project Lake Vermilion Shoreline Stabilization – Project Evaluation and Final Report.” June 2005. Cochran & Wilken, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	9,414 ft.	2,039.7	1,755.8	3,511.9

03-19(319)SR (JC)

Title: North Fork Vermilion River Watershed Project

Purpose: This project installed eight ponds and two water and sediment control basins in the Lake Vermilion watershed and implemented extensive information and education programs. A conservation tour of other best management practices (BMPs) was also held.

Project Location: Vermilion County

Subgrantee: Vermilion County Soil & Water Conservation District
1905 – A US Route 150
Danville, Illinois 61832

Project Reports and Other Informational Materials:

“North Fork Vermilion River Watershed Project – Phase III Final Report.” December 2007. Vermilion County Soil & Water Conservation District

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
378	Pond	8 (no.)	889	417	832
638	Water & Sediment Control Basin	14,375 ft.	241	86	172

03-20(319)CD

Title: Charleston SCR Sedimentation Basin

Purpose: This project involved the installation of 431 feet of shoreline stabilization and construction of an in-lake sedimentation control structure in the northwest cove of the Charleston Side-Channel Reservoir (ILRBC). The structure was designed to remove suspended and soluble nonpoint source pollutants, and enhance habitat and aesthetics. The TMDL and implementation plan for the Charleston Side-Channel Reservoir (ILRBC) is complete.

Project Location: Coles County

Subgrantee: City of Charleston
520 Jackson Avenue
Charleston, Illinois 61920

Project Reports and Other Informational Materials:

“Charleston Side-Channel Reservoir Sediment Basin Project Final Report.” July 10, 2007. City of Charleston.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	899	563	1,125
580	Streambank/Shoreline Protection	431 ft.	27	27	55

03-21(319)CD

Title: Salt Creek Streambank Stabilization – Elk Grove Village

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of 4,497 feet of eroding streambanks along a segment of Salt Creek (ILGL09) located in Elk Grove Village, Illinois. Bioengineering techniques (i.e., A-jacks, selective tree removal, native vegetation planting, erosion control blankets) were used.

Project Location: Cook County

Subgrantee: Village of Elk Grove Village
901 Wellington Avenue
Elk Grove Village, Illinois 60007-3499

Project Reports and Other Informational Materials:

“Salt Creek Streambank Stabilization – Elk Grove Village – Final Report.” July 2006. Village of Elk Grove Village.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	4,497 ft.	262	222	444

03-22(319)SR

Title: Lyman Woods Streambank, Streambed & Gully Stabilization

Purpose: This project installed best management practices (BMPs) to stabilize eroding streambanks, improve water quality, reduce nonpoint source pollution, and enhance aquatic habitat along 2,804 feet of streambank on Lacey Creek (ILGBL10), a tributary of the East Branch of the DuPage River. Bioengineering techniques (i.e., cobble toe, artificial riffles, streambank re-sloping, cross vanes, A-jacks, fiber roll, and vegetative stabilization) were used. The East Branch DuPage River is a Category 1 watershed in the Unified Watershed Assessment and is included on Illinois 303d list. The TMDL and implementation plan for the East Branch DuPage River is complete.

Project Location: DuPage County

Subgrantee: Downers Grove Park District
2455 Warrenville Road
Downers Grove, Illinois 60515

Project Reports and Other Informational Materials:

“Lyman Woods Streambank Stabilization PSA 2, Phase 1 & 2 Tributary to the East Branch DuPage River – Section 319 Project Report.” December 2007. Living Waters Consultants, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,804 ft.	222	222	445

03-23(319)ST

Title: Integrated Watershed Planning for Rayse Creek

Purpose: The Recipient in conjunction with the Rayse Creek Watershed Planning Committee developed a comprehensive Watershed Management Plan (Plan) for the Rayse Creek (ILNK01) watershed. The Plan includes a water resource specific description of all existing or potential water quality problems, their impacts, and the data used to identify said problems. The assessment also includes a water resource specific description of high quality waters in watershed. The Plan was developed to improve water quality by controlling nonpoint source pollution. The Plan contains a problem statement, goals and objectives, determinations of the type and location of causes and sources of impairments, alternatives for watershed protection, and the establishment of priorities for watershed improvements. The Plan includes site-specific Best Management Practices (BMPs) implementation recommendations for nonpoint source pollution control. Potential BMPs were identified for prevention, remediation, restoration, and maintenance to achieve water quality and natural resource objectives. The TMDL and implementation plan for Rayse Creek are complete.

Project Location: Jefferson County

Subgrantee: Southern Illinois University - Carbondale
Department of Forestry
Carbondale, Illinois 62901

Project Reports and Other Informational Materials:

“Rayse Creek Watershed Management Plan.” October 2006. Department of Forestry, Southern Illinois University Carbondale.

03-24(319)ST

Title: Stream Restoration Phase 2 - Trib. 6 to E. Br. DuPage R.

Purpose: Approximately 731 feet of eroding streambank along an unnamed stream, tributary number 6 of the East Branch DuPage River (ILGBL10), were stabilized using bioengineering techniques (rip rap, A-jacks, rock riffles, re-grading, vegetated geogrid, fiber roll, vegetation) and a 1.13 acre riparian buffer was also established to improve water quality in the stream. The East Branch DuPage River is a Category 1 watershed in the Unified Watershed Assessment and is included on Illinois 303d list. The TMDL and implementation plan for the East Branch DuPage River is complete.

Project Location: DuPage County

Subgrantee: Hobson Creek Community Council
23W420 Country Court
Naperville, Illinois 60540

Project Reports and Other Informational Materials:

“Hobson Creek Corridor Restoration Project, Phase 2. Tributary 6 to the East Branch DuPage River – Final Report.” November 2005. Ted Gray & Associates, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	731 ft.	53	53	106
657	Wetland Restoration	1.13 (ac.)	?	?	?

03-25(319)ST

Title: RiverWorks Exhibit

Purpose: This project will educate museum visitors about Illinois rivers and allow them to explore the many jobs that rivers take on, discover the ways in which humans try to make rivers work for us, experiment with different river projects, and find out about the many changes that have been made to the Chicago River.

Project Location: Cook County

Subgrantee: The Peggy Notebaert Nature Museum
2430 Cannon Drive
Chicago, Illinois 60614

03-26(319)BL

Title: A Sustainable Community Based Approach to Reducing NPS Pollution

Purpose: This project demonstrated the value of using green infrastructure in Addison Creek (ILGLA01) to address nonpoint source pollution. The project installed and monitored a 240 square foot rain garden of native plants and a 220 square foot rain garden of turf grass to demonstrate cost-effective, community based best management practices (BMPs) to reduce nonpoint source pollution in urban and urbanizing areas.

Project Location: Cook County

Subgrantee: Center for Neighborhood Technology
2125 West North Avenue
Chicago, Illinois 60647

Project Reports and Other Informational Materials:

“A Sustainable Community-Based Approach to Reducing Non-Point Source Pollution.” January 2009. Center for Neighborhood Technology.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
013	Rain Garden	2 (no.)	?	?	?

03-27(319)JC

Title: Northeastern Illinois Stream Restoration Inventory

Purpose: The U.S. Geological Survey conducted an inventory of stream restoration projects (i.e., streambank stabilization, riparian buffer restoration, in-stream restoration, channel re-meandering, and dam modification and removal) implemented in northeastern Illinois with funding under Section 319 of the Clean water Act. Information was collected from thirty-four restoration projects installed before the major flooding that occurred in the summer of 2007. Sites were selected to represent a sample of each restoration and stabilization practice in both urban and urbanizing watersheds, and under different geomorphic settings. The inventory included thorough photographic documentation, compilation and investigation of design plans, and an examination of flow records.

Project Location: Statewide

Subgrantee: U.S. Geological Survey
1201 W. University Ave., Suite 100
Urbana, Illinois 61801

Project Reports and Other Informational Materials:

"Illinois Stream Restoration and Stabilization Projects – An Inventory of Illinois Stream Best Management Practices." September 2008. U.S. Geological Survey.

03-28(319)SR

Title: Watershed Planning to Protect the Kishwaukee River Basin

Purpose: This project produced watershed-based plans in three subwatersheds of the Kishwaukee River Basin. The subwatersheds included the Upper Kishwaukee River (ILPQ13), Lawrence Creek (ILPQEC-A), and Beaver Creek (ILPQD07). These watershed-based plans addressed USEPA's 9 minimum elements of a watershed-based plan. This project also addressed the recommendations found in "Framework for a Basin-wide Planning and Protection Pilot" developed by the Basinwide Management Advisory Group, May 30, 2004.

Project Location: Counties of McHenry and Boone

Subgrantee: Chicago Metropolitan Agency for Planning
233 South Wacker Drive, Suite 800
Chicago, Illinois 60606

Project Reports and Other Informational Materials:

“Upper Kishwaukee River Watershed Plan – Technical Report.” November 2008. Chicago Metropolitan Agency for Planning.

“Lawrence Creek Watershed Plan – Technical Report.” September 2008. Chicago Metropolitan Agency for Planning.

“Beaver Creek Watershed Action Plan – Technical Report.” September 2008. Chicago Metropolitan Agency for Planning.

03-29(319)JC

Title: Hyacinth Place: Model Permeable Paver System

Purpose: This project constructed a permeable pavement parking lot to reduce nonpoint source pollution to Lake Michigan from the 500 Hyacinth Place development in Highland Park, Illinois. The new permeable parking lot (7,392 square feet) and underground storage was designed to filter runoff so as to remove suspended sediment, heavy metals, oil and grease, nutrients, and other suspended and soluble nonpoint source pollutants as well as reduce runoff volume and velocity while providing other beneficial hydrologic functions. The permeable pavement was designed so as to retain smaller rain events within the voids of the porous paving drainage layer and evaporated over time.

Project Location: Lake County

Subgrantee: Hyacinth Place LLC
666 Dundee Road, Suite 1102
Northbrook, Illinois 60062

Project Reports and Other Informational Materials:

“500 Hyacinth Place, Highland Park, Illinois: A Model for Sustainable Affordable Development – Final Report. August 28, 2008. Brinshore Development LLC.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
890	Porous Pavement	0.17 ac.	?	0	2

03-30(319)SR

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to

identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

03-(319)BY

FFY04 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Priority Lake & Watershed Implementation Program

Purpose: Section 319 funding was used to supplement the existing State funded (Conservation 2000) Priority Lake and Watershed Implementation Program (PLWIP). PLWIP is a reimbursement grant program designed to support lake protection, restoration, and enhancement activities at "priority" lakes where causes and sources of problems are apparent, project sites are highly accessible, project size is relatively small, and local entities are in a position to quickly implement needed treatments. Funding is provided for in-lake BMPs (i.e., shoreline stabilization, aerator/destratifier installation) and near-lake BMPs (i.e., dry dams, filter strips) that reduce nonpoint source pollution or mitigate their impacts. The first round of PLWIP projects stabilized eroding shorelines of Cedar Lake (200 ft.), Highland Old City Lake (500 ft.), Pana Lake (1,100 ft.), and Walton Park Lake (1,000 ft.). Also, stabilization utilizing an aggregate breakwater to create an intermediate wetland on Kinkaid Lake and planting 20,000 aquatic plant seedlings at Paradise Lake. The second round of PLWIP projects stabilized eroding shorelines of McLeansboro City Reservoir (200 ft.), Greenfield Lake (1,000 ft.), and Walton Park Lake (1,000 ft.). And 25,000 cubic yards of sediment were removed from Lake Charlie Brown.

Project Location: Counties of Jackson, Madison, Shelby, Montgomery, Coles, Clay, Hamilton, & Greene

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	6,200 (ft.)	109	95	185
657	Wetland Restoration	0.2 (ac.)	?	?	?
007	Dredging	1 (no.)	?	?	?

04-01(319)AW

Title: Of Time and the River

Purpose: This educational project combined archaeology, ethnohistory, several biological sciences, geology, and economics to survey the 12,000-year history of human use of the Illinois River. A web-based exhibit was developed to 1) educate the public about the 12,000 year history of the Illinois River, 2) increase public awareness of nonpoint source pollution and associated problems and how these have adversely impacted the Illinois River through time, 3) highlight what has been done to resolve

these problems, and 4) discuss what still needs to be done. The historical background provides a context for understanding changes that have occurred through time due to human activities in and around the river, specifically how nonpoint source pollution began and developed, the consequences of nonpoint source pollution for aquatic populations and those who rely on aquatic resources, and how the 1972 Clean Water Act and subsequent amendments initiated on-going programs to correct nonpoint source pollution.

Project Location: Sangamon County

Subgrantee: Illinois State Museum Society
502 South Spring Street
Springfield IL 62702

Project Reports and Other Informational Materials:

04-02 (319)BL

Title: Green Roof Project on the McKessen Building, Rock Island

Purpose: River Action, Inc. installed a green roof system on the roof (10,100 square feet) of the McKessen Building in downtown Rock Island. The project addressed urban runoff impacts to the Mississippi River and demonstrated innovative, infiltration based stormwater management approaches for highly impervious areas to address pollution problems and reduce flooding. Access to the rooftop was provided for tours and case studies. Public workshops and seminars were held for adults and school-age children. Street side and rooftop interpretive signage was installed. A runoff measurement system was designed and installed on both the green roof and a control roof.

Project Location: Rock Island County

Subgrantee: River Action, Inc.
Post Office Box 964
Davenport, Illinois 52805-0964

Project Reports and Other Informational Materials:

“A Green Roof Project on the McKesson Building by River Action: A green Roof System to Reduce Urban Runoff – Final Report.” September 2008. River Action, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
011	Green Roof	0.23 ac.	?	11	0

04-03 (319)ST

Title: Streambank Clean Up & Lakeshore Enhancement (SCALE)

Purpose: This project provided financial assistance to selected applicants to conduct lakeshore and streambank clean-up events. Local organizations that have previously conducted a lakeshore or streambank clean-up event were eligible to participate. The local sponsor was given up to \$3,500 to help conduct their clean-up event. The local sponsor could use the funds for event promotion, event equipment or disposal fees.

Project Location: Statewide

Subgrantee: Not Applicable

04-04 (319)CD

Title: North Fork Embarras River Watershed Project – Phase 4

Purpose: This project protected and improved the water quality of the North Fork Embarras River (ILBEF05) watershed by reducing nonpoint source pollution through a continuation of the efforts initiated with Section 319 funding under federal fiscal years 1996, 2000, and 2002. A comprehensive program of sediment and nutrient reduction was implemented that included watershed protection, information, and education efforts. Best management practices were installed for both upland watershed protection and streambank protection.

Project Location: Counties of Jasper and Clark

Subgrantee: North Fork Conservancy District
Post Office Box 7, 110 East Main
Casey, Illinois 62420

Project Reports and Other Informational Materials:

“North Fork Embarras River Watershed Project – Phase 4 – Final Report.” November 8, 2007. North Fork Conservancy District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
378	Pond	11 (no.)	724	120	245
410	Grade Stabilization Structure	4 (no.)	70	16	33
412	Grassed Waterway	7.5 ac.	49	49	93
580	Streambank/Shoreline Stabilization	4,584 ft.	1,355	1,219	2,437
600	Terrace	2,900 ft.	38	12	26
638	Water & Sediment Control Basin	990 ft.	34	16	32

04-05(319)SR (JC)

Title: Protecting Water Quality in Urban Centers of Illinois

Purpose: This project maintained and improved water quality in urbanized areas by creating a partnership between urban soil and water conservation districts (SWCDs) and Illinois EPA. Section 319 funds, in combination with local matching dollars or in-kind services, were used to undertake special nonpoint source pollution prevention education/information projects aimed at local government land use decision makers and the development community. Grant funds to SWCDs were used to develop the technical capabilities of SWCD staffs to develop and deliver technical educational materials or to conduct educational workshops or seminars.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street, Illinois State Fairgrounds
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

“Protecting Water Quality in Urban Centers Project – Final Report.” July 2007. Association of Illinois Soil & Water Conservation Districts.

04-06(319)CD

Title: Greater Eliza Watershed Project – Phase 3

Purpose: The purpose of this project was to protect and improve the water quality of the Greater Eliza Creek (ILMWD01) watershed by reducing nonpoint source pollutants. The project provided cost-share assistance to watershed landowners to implement a variety of upland and floodplain best management practices (ponds, grassed waterways, water and sediment control basins, and critical area planting). An educational program was developed to educate the public about the importance of streambank stabilization and nonpoint source pollution. This project was a continuation of an effort initiated with FFY 1998 and FFY 2001 Section 319 funding.

Project Location: Mercer County

Subgrantee: Mercer County Soil & Water Conservation District
308 Southeast 8th Avenue
Aledo, Illinois 61231

Project Reports and Other Informational Materials:

“Greater Eliza Watershed Project – Phase III – Final Report.” December 2007. Mercer County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
342	Critical Area Planting	5 ac.	19	21	42
378	Pond	8 (no.)	585	339	674
412	Grassed Waterway	0.4 ac.	31	31	61
638	Water & Sediment Control Basin	22,525 ft.	1,371	814	1,629

04-07(319)SR (JC)

Title: Kaskaskia River Watershed Hypoxia Analysis

Purpose: This project utilized existing water quality data, which had been previously collected by state and federal sources, to develop a GIS that will allow for a greater understanding of the sources of entry for nutrients (nonpoint source) into the watershed. The advantages of GIS include the ability to incorporate additional data; such as current and historical land use, as well as the ability to develop information at local, regional, subwatershed or watershed levels. This project produced paper and electronic maps, with associated data, that allows local soil and water conservation districts to better understand the impact that their region is having on the overall hypoxia phenomenon. The data developed as a component of this project can be incorporated into the development and implementation of TMDLs, which will lead to an overall reduction in the factors that cause hypoxia.

Project Location: Counties of Bond, Clinton, Madison, Monroe, Randolph, St. Clair, & Washington.

Subgrantee: Southwestern Illinois Resource Conservation and Development, Inc.
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

"Kaskaskia River Watershed Hypoxia Analysis. January 2007. Southwestern Illinois Resource Conservation and Development, Inc.

04-09(319)CD

Title: Watershed Based Planning

Purpose: This project coordinated the development of four (4) watershed-based plans designed to improve water quality by controlling nonpoint source pollution. The four watersheds included Evergreen Lake (ILSDA), Salt Fork Vermilion River (ILBPJ10), Clinton Lake (ILREI)/Salt Creek, and lower part of Upper Sangamon River. The Association of Illinois Soil & Water Conservation Districts (AISWCD) provided oversight and review to ensure consistency with Illinois EPA and USEPA guidance. The project also included the installation of a 7,900 square foot porous pavement drive and parking lot system at the AISWCD office to be used for

information/education and outreach purposes to local SWCD staff and other entities interested in parking lot improvement projects.

Project Location: Sangamon, McLean, Champaign, Dewitt, and Macon Counties

Subgrantee: Association of Illinois Soil & Water Conservation Districts
4285 North Walnut Street Road
Springfield, Illinois 62707

Project Reports and Other Informational Materials:

“Watershed Based Planning Initiative – Final Report.” March 2009. Association of Illinois Soil & Water Conservation Districts

“Watershed Implementation Plan for the Upper Salt Fork of the Vermilion River.” May 2007. Champaign County Soil and Water Conservation District.

“Evergreen Lake Watershed Plan.” 2008. Evergreen Lake Watershed Planning Committee - McLean County Soil and Water Conservation District.

“Lower Part of the Upper Sangamon River Watershed Resource Plan.” June 25, 2008. Macon County Soil and Water Conservation District.

“Clinton Lake Watershed Management Plan.” June 29, 2007. Clinton Lake Planning Committee - DeWitt County Soil and Water Conservation District.

04-10(319)CD

Title: Homer Lake: Making it Clear.. One Household, One field at a Time

Purpose: The Champaign County Forest Preserve District (CCFPD) and Champaign County Soil and Water Conservation District (CCSWCD) worked cooperatively to inform agricultural and urban landowners within the Homer Lake watershed how they can cost-effectively reduce nonpoint source pollution inputs to the lake. In addition to informing large groups in workshops, an effort was made to individually contact all agricultural producers to help them plan and implement the practices best suited for their operation. Incentive payments were offered to implement agricultural practices (nutrient management, variable rate application technology, deep placement of phosphorus, vegetative buffers, and strip till) that will provide the greatest benefit to the lake. A specialized toolbar was made available for deep-placement of phosphorus on agricultural fields.

Project Location: Champaign County

Subgrantee: Champaign County Soil & Water Conservation District
2110 W. Park Court, Suite C
Champaign, Illinois 61821

Project Reports and Other Informational Materials:

“Homer Lake: Making it Clear.. One Household, One field at a Time – Final Report.” May 1, 2007. Champaign County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
329	Conservation Tillage	437.8 ac.	1,277	1,328	2,560
393	Filter Strip	26.9 ac.	59	80	153
590	Nutrient Management	4,155.2 ac.	36,522	29,971	58,897

04-11(319)CD (JC)

Title: Water Quality Strategic Research Initiative

Purpose: This research project was headed by the Illinois Council on Food and Agricultural Research (C-FAR) Strategic Research Initiative (SRI) for Water Quality. The project helped fund continued research for four projects: 1) Effects of phosphorus mediated through algal biomass in Illinois streams; 2) Spatial and temporal relationships between biotic integrity of Illinois streams, dissolved oxygen, and nutrients (including controls on dissolved reactive and particulate phosphorus); 3) Seasonal dynamics of nutrients, algae and dissolved oxygen in agriculturally dominated headwater streams: the link between land-use and water quality; and 4) The impact of sediments on the potential bioavailability of phosphorus in Illinois streams. These four projects directly impact Illinois EPA's nutrient standards and TMDL development programs.

Project Location: Statewide

Subgrantee: The Board of Trustees of the University of Illinois
1901 South First Street, Suite A
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“Water Quality Strategic Research Initiative – Final Report.” November 21, 2008. University of Illinois – Extension.

04-12(319)JC

Title: Watershed Based Plan Upgrades in Northeastern Illinois

Purpose: This project coordinated the upgrade and development of watershed-based plans in northeastern Illinois. The Northeastern Illinois Planning Commission (NIPC) sent out a Request for Proposals to northeastern Illinois watershed planning groups. The proposals were reviewed and ranked for completeness and cost-effectiveness and funding was distributed to the watershed planning groups for the upgrade of their watershed plan. NIPC was a member of each watershed planning team and

provided GIS support and technical oversight and review to ensure consistency with Illinois EPA and USEPA guidance. Plans were developed for Tyler Creek (ILDTP02), Bull Creek/Bulls Brook, Indian Creek, Fish Lake Drain, N. Br. Chicago River, Nippersink Creek (ILDTK04), and E. Br. DuPage River and W. Br. DuPage River.

Project Location: Counties of Lake and DuPage

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Indian Creek Watershed Plan.” Draft - June 2006. Applied Ecological Services, Inc. & Lake County Stormwater Management Commission.

“The Nippersink Creek Watershed Plan.” February 2008. Watershed Resource Consultants, Inc. & The Nippersink Creek Watershed Planning Committee.

“The Tyler Creek Watershed Plan.” March 2008. Watershed Resource Consultants, Inc. & The Conservation Foundation.

“Bull Creek/Bull’s Brook Watershed-Based Plan.” Final Draft, March 31, 2008. Applied Ecological Services, Inc. & Lake County Stormwater Management Commission.

“Fish Lake Drain Watershed Management Plan.” April 2008. Conservation Design Forum & Lake County Stormwater Management Commission.

“North Branch Chicago River Watershed-Based Plan for Lake and Cook Counties, Illinois.” May 22, 2008. Lake County Stormwater Management Commission.

“Upper DuPage River Watershed Plan. 2007 Update.” December 2007. The Conservation Foundation.

04-13(319)SR

Title: Fox River Watershed Planning, Restoration, & Protection

Purpose: This project continued the implementation of the “Integrated Management Plan for the Fox River Watershed in Illinois.” The project included eight watershed restoration and protection projects as well as watershed-wide project coordination and technical assistance. Lake Run Habitat Restoration Project restored a 3,350-foot segment of Long Run, a tributary of Blackberry Creek (ILDTD02), and 41.79 acres of wetlands. Otter Creek Stream Restoration Project stabilized 3,095 feet of eroding streambanks along Otter Creek (ILDTF02), a tributary to Ferson Creek and the Fox River. St. Charles Stormwater Outfall Treatment Basin project constructed a wetland basin to receive and treat stormwater runoff prior to discharge to 7th Avenue Creek, a tributary of the Fox River. Poplar Creek Streambank Restoration

Project stabilized 200 feet of eroding streambanks along Poplar Creek (ILD TG02), a tributary of the Fox River. Restoration of Lake Antioch Wetlands & Feedstream project constructed a stone filter check fence with wetland planting and stabilized 515 feet of eroding streambanks tributary to Lake Antioch. Presbury Lake Shoreline Restoration Project stabilized 925 feet of eroding shoreline along Presbury Lake. Woods Creek Nonpoint Source Control project retrofitted three existing dry bottom detention basins into wetland detention basins, installed native vegetation in ponds and adjacent areas upstream of Woods Creek to enhance pollutant removal, conduct storm drain stenciling, and installed educational signage. Long Lake Shoreline Stabilization Project stabilized 1,667 feet of eroding shoreline along Long Lake (ILRTJ). The Fox River is included on Illinois' 303(d) list. This project executed nonpoint source pollution control recommendations of a watershed-based plan for the Fox River.

Project Location: Counties of Cook, Kane, & Lake

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Fox River Watershed Planning, Restoration, & Protection – Final Report.” December 2007. Chicago Metropolitan Agency for Planning.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Stabilization	5,887 ft.	451	421	839
584	Stream Channel Stabilization	3,865 ft.	54	53	106
657	Wetland Restoration	41.79 ac.	?	14	84
800	Urban Stormwater Wetland	4 (no.)	?	104	352
840	Grass-Lined Channel	0.55 ac.	?	67	191
910	Rock Outlet Protection	1 (no.)	?	?	?

04-14(319)SR

Title: Upper DesPlaines River WRAS Implementation

Purpose: This project continued the implementation of the Upper DesPlaines River Watershed Restoration Action Strategy as prepared by the Upper DesPlaines River Ecosystem Partnership. The project included two watershed restoration and protection projects as well as watershed-wide project coordination and technical assistance. Ryerson Conservation Area - Visitors Center Site Work project installed stormwater BMPs (porous pavement, bioswales, cisterns, and rain garden) during construction of a new visitor's center and implemented educational activities (interpretive signs, exhibit panels, and brochures). Ravinia and Indian Creek Parks Project included 1,401 feet of streambank stabilization and upland slope stabilization, vegetation management and planting, 0.48 acres of floodplain

restoration, stormwater wetland, and interpretive signage along improved trails. The DesPlaines River is included on Illinois' 303(d) list.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Upper DesPlaines River WRAS Implementation – Final Report.” July 2007. Chicago Metropolitan Agency for Planning.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
012	Cistern	2 (no.)	?	?	?
013	Rain Garden	1 (no.)	0	1	8
580	Streambank/Shoreline Protection	1,401.5 ft.	22	22	42
657	Wetland Restoration	0.48 ac.	?	?	?
800	Urban Stormwater Wetland	1 (no.)	?	49	261
845	Infiltration Trench	4 (no.)	?	0	0
890	Porous Pavement	0.95 ac.	?	1	20

04-15(319)SR

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Association of Illinois Soil & Water Conservation District (AISWCD) subcontracted with SWCDs to hire staff to facilitate the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conduct field visits to determine program eligibility. The SWCDs completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtained the necessary producer signatures on required documents, and completed all state CREP enrollment forms. The SWCDs coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
393	Filter Strip	9,300 ac.	500	500	500

04-16(319) JC

Title: North Branch Watershed Project - Ongoing Implementation Phase

Purpose: This project continued implementation of additional Best Management Practices (BMP) in accordance with the North Branch Watershed Management Plan in Lake and Cook Counties. Lake County Stormwater Management Commission continued watershed plan implementation in the North Branch Chicago River Watershed. The North Branch Chicago River is included on Illinois' 303(d) list. This project executed nonpoint source pollution control recommendations of a watershed-based plan for the North Branch Chicago River.

Project Location: Counties of Lake & Cook

Subgrantee: Lake County Stormwater Management Commission
333 Peterson Road
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

"North Branch Watershed Project Implementation - Phase 4 Final Report." July 27, 2007. Lake County Stormwater Management Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	11,434 ft.	1,297	1,191	2,384
657	Wetland Restoration	34 ac.	?	3	5
800	Urban Stormwater Wetland	3 (no.)	?	131	493
835	Urban Filter Strip	0.092 ac.	?	2	7

04-17(319)CD

Title: NPS Program Implementation Assistance - Phase 2

Purpose: This project allowed for continued technical, educational, and informational assistance to, and through the county soil and water conservation districts. This position provided assistance to Illinois EPA regarding water quality issues, program outreach and implementation. Continuing the existence of the Watershed Liaison position allowed for the initiatives/programs developed thus far to be improved upon and expanded.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
4285 North Walnut Street Road
Springfield, Illinois 62707

Project Reports and Other Informational Materials:

“Nonpoint Source Program Implementation Assistance - Phase 2.” May 2008. Association of Illinois Soil & Water Conservation Districts.

04-19(319) CD

Title: Conservation Practices Mapping and Assessment

Purpose: This project continued development of the best management practice (BMP) database developed by the University of Illinois and Illinois EPA to geographically track BMPs implemented by the Illinois EPA with funding under Section 319 of the Clean Water Act. In cooperation with the Illinois EPA, the Recipient identified and implemented proposed enhancements to the interface, database, and design.

Project Location: Statewide

Subgrantee: University of Illinois
109 Cobble Hall, 801 South Wright Street
Champaign, Illinois 61820

04-20(319)SR

Title: Farm Progress Show Site BMP Project

Purpose: The Illinois Land Improvement Contractors Association held a Conservation Expo at the permanent Farm Progress Show site in Decatur, Illinois. The three day expo was designed to provide current information and demonstrations of proper installation techniques of best management practices to conservation contractors; local, state, and federal employees (such as SWCD, CES, and NRCS); and landowners interested in conservation on their land.

Project Location: Macon County

Subgrantee: Illinois Land Improvement Contractors Association, Inc.
2060 Timberbrook Drive
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

“Farm Progress Show Site BMP Project – Final Report.” September 26, 2006. Illinois Land Improvement Contractors Association, Inc.

04-21(319)CD

Title: Regional Stormwater BMP Park

Purpose: The City of Elgin updated the conceptual master plan for the new recreational park to be located on a 224-acre parcel at the intersection of Muirhead Road and Plank Road in Elgin, Illinois to include a state-of-the-art stormwater management system, which emphasizes hydrologic approaches to nonpoint source pollution control by reducing both the volume of runoff and the concentrations of pollutants through infiltration, evaporation, and sedimentation. A fact sheet was published for each selected BMP that included basic information about the BMP. A monitoring program was prepared to evaluate the effectiveness of the selected proposed BMPs. A preliminary site plan was prepared to identify the proposed facilities and the proposed BMPs at the site, which is in the Tyler Creek (ILDZP02) watershed.

Project Location: Kane County

Subgrantee: City of Elgin
100 Symphony Way
Elgin, IL 60120

Project Reports and Other Informational Materials:

“City of Elgin Regional Stormwater BMP Park.” September 30, 2008. City of Elgin.

04-22(319)SR

Title: Flint Creek Watershed Based Plan

Purpose: This project developed a watershed-based plan for the Flint Creek watershed that is designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated August 26, 2003 (as revised), Illinois EPA draft “Guidance for Developing Watershed Implementation Plans in Illinois” (IEPA/BOW/98-002 – March 1998), total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. The Flint Creek Watershed Partnership worked with local stakeholders to develop an integrated watershed plan for the Flint Creek watershed that included watershed data evaluation and resource inventory along with site specific Best Management Practices recommendations designed to improve water quality by reducing suspended sediment, nutrients and other pollutants while enhancing habitat and aesthetics.

Project Location: Counties of Cook & Lake

Subgrantee: Citizens for Conservation Flint Creek Watershed Partnership
459 West Highway 22
Barrington, Illinois 60010

Project Reports and Other Informational Materials:

“Flint Creek Watershed-Based Plan.” December 2007. Applied Ecological Services, Inc.

04-23(319)SR

Title: Watershed Capacity Building

Purpose: A survey was developed and mailed to determine the specific additional tools and knowledge that Illinois’ various watershed groups need in order to improve the effectiveness of their water quality protection and restoration programs. A training session was held. Data from the survey was compiled, reviewed, and analyzed. A Watershed Capacity Building Strategy (Strategy) was developed that documents and considers the survey results and recommends specific actions to be taken to satisfy the identified deficiencies.

Project Location: Statewide

Subgrantee: Prairie Rivers Network
1902 Fox Drive, Suite G
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“A Strategy for Building Capacity in Illinois Watersheds.” May 2009. Prairie Rivers Network.

04-24(319)AW

Title: Waukegan River Restoration Project

Purpose: This project restored 450 feet of failed streambank stabilization practices installed on the Waukegan River (ILQ01). Restoration was designed to arrest streambank erosion and reduce nonpoint source pollution through the installation of environmentally sound practices while protecting or enhancing habitat, ameliorating damage from peak flows, reducing velocity of peak flows, and enhancing aesthetic qualities.

Project Location: Lake County

Subgrantee: Waukegan Park District
2211 Erine Kruger Circle
Waukegan, Illinois 60087

Project Reports and Other Informational Materials:

“Powell Park/Waukegan River Restoration Project.” September 2009. Waukegan Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	450 ft.	86	73	147

04-25(319)ST

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

Project Location: Statewide

04-(319)BY

FFY05 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: City of Chicago Best Management Practices Implementation

Purpose: This project addressed nonpoint source pollution urban runoff impacts to the Chicago River (ILHCC08) and Lake Michigan and demonstrated innovative, infiltration based stormwater management approaches for highly pervious areas. The project included construction of the following practices at the Household Hazardous Waste Collection Facility: a vegetated roof, a gravel infiltration trench along the employee parking area, gravel driving strips, a bioretention swale, and two cisterns. The City of Chicago partnered with Friends of the Chicago River to provide a public outreach campaign that included signage and brochures, press releases and presentations to the public. The North Branch Chicago River and Lake Michigan are included on Illinois' 303(d) list. This project executed nonpoint source pollution control recommendations of a watershed-based plan for the North Branch Chicago River.

Project Location: Cook County

Subgrantee: City of Chicago, Department of General Services
30 North La Salle
Chicago, Illinois 60602

Project Reports and Other Informational Materials:

"City of Chicago Best Management Practices Implementation – Final Report." July 17, 2007. City of Chicago.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
012	Cistern	2 (no.)	?	?	?
011	Green Roof	0.14 ac.	?	?	?
835	Urban Filter Strip	0.08 ac.	?	1	2
845	Infiltration Trench	2 (no.)	?	1	2

05-01(319)CD

Title: Nonpoint Source Pollution Control Program Evaluation

Purpose: This project developed a strategy for the creation of social indicators to use to help determine the effectiveness of Illinois EPA's Section 319 program and other conservation programs and projects. Implementation of the strategy resulted in a list of potential indicators and potential tools, a set of final indicators including a core subset consistent with USEPA indicators, and a "tool kit."

Project Location: Statewide

Subgrantee: Board of Trustees of University of Illinois
Office of Sponsored Programs and Research Administrators
1901 South First Street (Suite A) MC-685
Champaign, Illinois 61820-6242

Project Reports and Other Informational Materials:

"Nonpoint Source Pollution Control Program Evaluation (Social Indicators) – Final Report."
June 30, 2008. University of Illinois.

05-02(310)CD

Title: Lincoln Park Zoo South Pond Environmental Education Project

Purpose: This project used the South Pond to educate visitors of the Lincoln Park Zoo about the issues related to water quality and non-point source pollution. The project included programs that range from highly interactive projects (Education Kits for teachers) to family oriented (story books for children) to fascinating multi-media projects (video and curiosity carts). 'Curiosity Carts' are rolling activity carts, designed around a specific theme. Zoo docents take a cart on to Zoo grounds and engage the public in hands-on activities for brief but meaningful interpersonal education about water quality issues. Educational Loan Kits are for take-away education projects extending lessons from the Zoo to classrooms or homes outside the Zoo. Teachers, parents, or other group leaders who visit the Pond can check out a kit and take it with them to use with other classes or groups at home. A children's book was developed to tell the story of the ecological history of the shoreline and the pond from the point of view of a 250-year-old tree on the bank of

the south pond. Additionally, to reach a somewhat older audience, a short educational video was produced on the ecological history of the South Pond.

Project Location: Cook County

Subgrantee: Lincoln Park Zoo
2001 North Clark Street
Chicago, Illinois 60614

05-03(319)BL

Title: Streambank Erosion Control in the Lake Galena Watershed

Purpose: This project reduced nonpoint source (NPS) pollution delivery to Lake Galena (ILRMM) through the installation of best management practices (BMPs) adjacent to the lake and within the watershed. BMPs were used to stabilize 7,130 feet of streambank, 200 feet of stream channel, and 1,585 feet of roadway culverts and drainage ditches. Two stormwater wetlands and one sediment basin were also constructed.

Project Location: JoDaviess County

Subgrantee: Galena Territory Association
2000 Territory Drive
Galena, Illinois 61036

Project Reports and Other Informational Materials:

“Lake Galena Watershed Project - Phase II - Final Report.” July 2009. Galena Territory Association.

05-04(319)ST

Title: Working with the Amish

Purpose: The Douglas County Soil and Water Conservation District assisted and educated the Amish Community in the use of non-till conservation practices to reduce nonpoint source pollution and improve water quality. Specialty farm equipment for implementing no-till farming practices was purchased and made available on a rental basis to the Amish community. The project also included a community outreach initiative to create contacts with the Amish community in and around the Arthur-Arcola communities to educate them on the use of no-till practices and how it will help reduce nonpoint source pollution, enhance water quality, improve and protect habitat, and improve the quality of life.

Project Location: Douglas County

Subgrantee: Douglas County Soil & Water Conservation District
900 South Washington Street
Tuscola, Illinois 61953

Project Reports and Other Informational Materials:

“Working with the Amish – Final Report.” September 2009. Douglas County Soil & Water Conservation District.

05-05(310)ST

Title: Manure Management Options for Swine Producers to Reduce NPS Pollution

Purpose: This project completed and fully operationalized a production-scale integrated livestock waste management demonstration site. The project demonstrated improved best management practices that result in reduced nonpoint source pollution and improved water quality. Educational materials were designed to inform farmers, educators, and the general public about the impacts of nonpoint source pollution originating from the land application of manure on ground and surface water and how and how it can be reduced. The project reduced the nonpoint source pollution potential of the Illinois State University Farm-Lexington livestock operation of (1,000 A.U. approximately) to Turkey Creek, a tributary to the Mackinaw River.

Project Location: McLean County

Subgrantee: Illinois State University (LUW Team)
5020 AGR
Normal, Illinois 61790-5020

Project Reports and Other Informational Materials:

“Combining Separation, Nitrification/Denitrification, Composting and Irrigation as a Manure Management Option for Swine Produces to Reduce NPS Pollution.” May 30, 2008. Illinois State University.

05-06(319)JC

Title: Bringing Wetlands to Life Through Restoration and Public Communication

Purpose: This project restored a portion of the floodplains of the Des Plaines River (ILG07) and researched significant ecological elements (i.e., hydrologic conditions, water chemistry, and vegetation reestablishment). Wetlands Research, Inc. (WRI) created 6.8 acres of wetland and enhanced 4.22 acres of existing wetland. The performance of the restored wetland was monitored to determine if water quality, hydrology and vegetation characteristics evolved in a manner reflective of a natural wetland. WRI also executed a public communications campaign to educate the public about the values of wetlands, particularly in minimizing non-point source pollution.

Project Location: Lake County

Subgrantee: Wetland Research, Inc.
53 West Jackson Boulevard, #1015
Chicago, Illinois 60604

Project Reports and Other Informational Materials:

“Bringing Wetlands to Life Through Wetland Restoration and Public Communication.” June 2009. Wetland Research, Inc.

“Growing Wetlands for Clean Water.” (Video) 2008. Wetland Research, Inc.

05-07(319) ST

Title: NRCS Urban Office Technical Assistance

Purpose: The Recipient maintained the Community Assistance and Watershed Planning Office to serve the six county northeastern Illinois area. This office provided nonpoint source pollution control related technical assistance to the soil and water conservation districts, planning commissions, county departments, townships and municipalities in northeastern Illinois. In addition to direct technical assistance, the staff of this office provided information/education and training assistance. The major focus of the office was on erosion/sediment control, water quality and natural resource management. Funding under this Agreement was used by the Recipient to support the activities of the Community Assistance and Watershed Planning Office.

Project Location: Counties of Cook, Lake, McHenry, DuPage, Will, and Kane

Subgrantee: USDA - Natural Resources Conservation Service
2118 West Park Court
Champaign, Illinois 61820

05-08(319)SR

Title: Patriot's Park Lake Phase 2 Implementation

Purpose: The Kingsbury Park District implemented recommendations of the Phase 1 Diagnostic/Feasibility Study completed for Patriot's Park Lake (ILROY). Implementation included dredging the lake and lake forebay, rehabilitation of the forebay dam, stabilization of 150 feet of streambank, installation of one water and sediment control basin, and stabilization of 1,900 feet of eroding shoreline. Patriot's Park Lake is tributary to East Fork Shoal Creek (ILOID05).

Project Location: Bond County

Subgrantee: Kingsbury Park District
114 North 2nd Street
Greenville, Illinois 62246

Project Period: 07/28/05 through 07/15/09

Project Reports and Other Informational Materials:

“Illinois EPA Phase 2 Implementation Project for Patriot’s Park Lake, Bond County, Il. – Final Completion Report.” March 2009. HDR CWI.

05-09(319)JC

Title: Springdale Cemetery Restoration Project

Purpose: This project stabilized 1,905 feet of eroding streambank on Springdale Creek, a tributary to Illinois River (ILD30), through the installation of riprap, gabions, log barbs, rock check dams, stone pool and riffle structures, and the installation of native vegetation. The project also included an education component.

Project Location: Peoria County

Subgrantee: Tri-County Regional Planning Commission
411 Hamilton Blvd., Suite 201
Peoria, Illinois 61602

Project Reports and Other Informational Materials:

“Springdale Cemetery Restoration Project – Final Report.” December 2008. Tri-County Regional Planning Commission.

05-10(319)ST

Title: Stream Corridor Restoration Project - Phase 3 (Trib. 6)

Purpose: This project installed streambank stabilization best management practices (BMPs) to improve water quality, reduce nonpoint source pollution, and enhance aquatic habitat along a section of Tributary # 6 (Hobson Creek), a tributary of the East Branch of the DuPage River (ILGBL10). The project involved the installation of approximately 858 linear feet of BMPs (i.e., A-jacks, rock vortex weirs, bank re-shaping, cobble, fiber roll, and vegetation) on Tributary # 6 to stabilize eroded streambanks, reduce nonpoint source pollution, establish a 0.37 acre riparian buffer, enhance habitat and aesthetics, and provide other beneficial hydrologic functions. The East Branch DuPage River was a Category 1 watershed in the Unified Watershed Assessment and is included on Illinois 303d list. The TMDL and implementation plan for the East Branch DuPage River are complete.

Project Location: DuPage County

Subgrantee: Hobson Creek Community Council
23W420 Country Court
Naperville, Illinois 60540

Project Reports and Other Informational Materials:

“Hobson Creek Corridor Restoration Project, Phase 3 Tributary 6 to the East Branch DuPage River – Section 319 Project Report.” December 2008. Living Waters Consultants, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	858 ft.	49	49	100

05-11(319)ST

Title: Poplar Creek Watershed Planning, Restoration, & Protection

Purpose: This project developed a watershed-based plan for the Poplar Creek (ILDTG02) watershed that was designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated August 26, 2003 (as revised), Illinois EPA draft “Guidance for Developing Watershed Implementation Plans in Illinois” (IEPA/BOW/98-002 – March 1998), total maximum daily load (TMDL) implementation plan requirements, and current watershed planning. Poplar Creek is a tributary of the Fox River.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

“Poplar Creek Watershed Action Plan.” July 2007. Chicago Metropolitan Agency for Planning.

05-13(319)SR

Title: Armitage Creek Streambank Stabilization

Purpose: This project stabilized approximately 6,200 feet of eroding streambanks along a 4,100 foot segment of Armitage Creek, a tributary of the East Branch DuPage River (ILGBL10), located between Placid Road and Winthrop Avenue in Glendale Heights, Illinois. Streambanks were stabilized using stone toe stabilization, gabion, timber wall, slope re-grading, minor clearing of non-native vegetation, and re-vegetation of banks with native wetland plugs and seed.

Project Location: DuPage County

Subgrantee: Village of Glendale Heights
300 Civic Center Plaza
Glendale Heights, Illinois 60139

Project Reports and Other Informational Materials:

“Armitage Creek Stabilization Project Final Report.” November 2007. Christopher B. Burke Engineering West, Ltd.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	6,200 ft.	170	144	290

05-14(319)SR

Title: Watershed Based Plan Development for 303(d) Listed Waters

Purpose: This project assisted watershed groups in preparing or upgrading six (6) watershed based plans to improve water quality by controlling nonpoint source pollution. The watershed based plans were designed to meet USEPA's nine minimum elements. Plans were prepared for Bear Creek (ILKI02), Lake Vermilion (ILRBD), Eagle Creek (ILATE01), Spring Lake (ILRDR), Lake Bloomington (ILRDO), and Big Bureau Creek (ILDQ01).

Project Location: Adams, Bureau, Hancock, Gallatin, McDonough, & McLean Counties

Subgrantee: Association of Illinois Soil & Water Conservation Districts
4285 North Walnut Street Road
Springfield, Illinois 62707

Project Reports and Other Informational Materials:

“Greater Bear Creek Area Watershed Plan.” July 2008. Greater Bear Creek Area Watershed Local Planning Committee, Adams County SWCD, and Hancock County SWCD.

“Big Bureau Creek Watershed Based Plan.” August 5, 2008. Bureau County SWCD.

“Lake Bloomington Watershed Plan.” June 17, 2008. McLean County SWCD.

“Watershed Implementation Plan for Lake Vermilion and the North Fork Vermilion River, Vermilion County, Illinois.” June 2008. Vermilion County SWCD.

“Spring Lake Watershed Plan.” July 2008. McDonough County SWCD.

“Eagle Creek Watershed Plan.” August 11, 2007. Gallatin County SWCD.

Title: Carlinville Lake Watershed Plan

Purpose: This project conducted a Phase I diagnostic-feasibility study of Carlinville Lake (ILRDG) and developed a watershed-based plan for the Carlinville Lake watershed designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated August 26, 2003 (as revised), Illinois EPA draft "Guidance for Developing Watershed Implementation Plans in Illinois" (IEPA/BOW/98-002 – March 1998), total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles.

Project Location: Macoupin County

Subgrantee: City of Carlinville
550 North Board
Carlinville, Illinois 62626

Project Reports and Other Informational Materials:

"Watershed Plan & Phase 1 Diagnostic/Feasibility Study for Lake Carlinville, Macoupin County, Illinois." HDR/CWI Consulting Engineers & Scientists.

Title: Governor Bond Lake Shoreline Stabilization No. 1

Purpose: This project installed best management practices along 4605 linear feet of shoreline on Governor Bond Lake (ILROP) to arrest shoreline erosion and reduce nonpoint source pollution while protecting or enhancing habitat and aesthetic qualities. The installation of shoreline stabilization practices was consistent with the recommendations of the Clean Lakes Diagnostic/Feasibility Study and the Governor Bond Lake Total Maximum Daily Load (TMDL) implementation plan. Shoreline stabilization practices included revetments and offshore breakwaters using riprap and vegetation.

Project Location: Bond County

Subgrantee: City of Greenville
404 South 3rd Street
Greenville, Illinois 62246

Project Reports and Other Informational Materials:

Project Evaluation and Final Report - Governor Bond Lake Shoreline Stabilization No. 1." February 2007. City of Greenville.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	4,605 ft.	203	172	344

05-17(319)ST

Title: Jackson Creek Watershed Planning

Purpose: This project assisted the Will County Stormwater Management Planning Committee in compiling a comprehensive watershed resource inventory and developing a watershed-based plan for the Jackson Creek (ILGC02) watershed, a sub-watershed of the Des Plaines River. This inventory assessed the use impairments of water resources along with the causes and sources of the impairments. The watershed-based plan was designed to reduce nonpoint source pollution, enhance water quality, improve and protect habitat, and improve the quality of life.

Project Location: Will County

Subgrantee: Will County Stormwater Management Planning Committee
302 North Chicago Street
Joliet, Illinois 60432

Project Reports and Other Informational Materials:

“Jackson Creek Watershed Plan – Technical Report.” April 2009. Chicago Metropolitan Agency for Planning.

05-18(319)ST

Title: Technical Assistance for Green Infrastructure Projects

Purpose: This project developed two web-based models and a valuation model that encourage the strategic use of green infrastructure (wetlands, trails, greenways, trees, mature landscaping, etc.) to reduce costs for stormwater management and improve water quality, as well as improved habitat for native flora and fauna and increased recreation and open space opportunities.

Project Location: Cook County

Subgrantee: Center for Neighborhood Technology
2125 West North Avenue
Chicago, Illinois 60647

Project Reports and Other Informational Materials:

“Technical Assistance for Green Infrastructure Projects – Final Report.” December 12, 2006. Center for Neighborhood Technology.

05-19(310)JC

Title: Salt Creek Streambank Stabilization

Purpose: This project stabilized eroding streambanks along a segment of Salt Creek (ILGL09) located between State Route 53 and Algonquin Road and a segment located at Fox Lane in Rolling Meadows, Illinois. Approximately 3,278 feet of streambank was stabilized using stone toe with vegetated slopes, stone toe with emergent deep rooted vegetation, and clearing of non-native vegetation, minor regarding and re-vegetation of banks with native deep-rooted grasses and forbes.

Project Location: Cook County

Subgrantee: City of Rolling Meadows
3600 Kirchoff Road
Rolling Meadows, Illinois 60008

Project Reports and Other Informational Materials:

“Salt Creek Streambank Stabilization Stage 3 – Project Final Report.” May 2009. Wills Burke Kelsey Associates, Ltd.

05-20(319)SR

Title: Kinkaid Lake TMDL Best Management Practices Implementation

Purpose: This project involved the construction of three sediment/nutrient detention basins, stabilization of 900 lineal feet of gully erosion, and the stabilization of 3,000 lineal feet of shoreline erosion in the Kinkaid Lake (ILRNC) watershed. All practices were designed to reduce nonpoint source pollution and improve water quality. A public outreach and education campaign was also implemented to create citizen awareness of actions that can positively affect local water quality.

Project Location: Jackson County

Subgrantee: Kinkaid-Reed’s Creek Conservancy District
1763 Water Plant Road
Murphysboro, Illinois 62966

Project Reports and Other Informational Materials:

“Project Evaluation & Final Report – Kinkaid Lake TMDL Best Management Practices Implementation.” August 2007. Kinkaid-Reed’s Creek Conservancy District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	3 (no.)	637	6	13
410	Grade Stabilization Structure	15 (no.)	309	309	617
580	Streambank/Shoreline Protection	3,000 ft.	1147.9	1147.9	2295

05-21(319)CD

Title: DuPage R. & Salt Cr. TMDL Implementation Project

Purpose: This project collected additional data to facilitate implementation of total maximum daily loads (TMDL) developed for Salt Creek (ILGL09) and the East and West Branches of the DuPage River (ILGBL02 & ILGBK01). A full time staff person was hired to act as the nonpoint source (NPS) TMDL coordinator for the project. Multi-parameter probes were purchased and deployed to expand dissolved oxygen monitoring activities. Monitoring data was entered into Illinois EPA's Assessment Data Base (ADB) and USEPA's STORET. A baseline study of the fish, macroinvertebrates, and habitat features was conducted on Salt Creek, the East and West Branches of the DuPage River, and their tributaries. A feasibility study was performed to evaluate the removal or modification of dams, or the construction and operation of in-stream aeration projects or other non-structural process for the purpose of reaching the water quality target of the TMDLs. The need for a NPS phosphorus reduction study, chlorine reduction study, and stormwater management study was also investigated.

Project Location: DuPage and Cook Counties

Subgrantee: The Conservation Foundation
10S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

"Stream Dissolved Oxygen Improvement Feasibility Study for the East Branch of the DuPage River." December 2008. HDR Engineering, Inc.

"Biological and Water Quality Study of the East and West Branches of the DuPage River and Salt Creek Watersheds." December 2008. Center for Applied Bioassessment and Biocriteria - Midwest Biodiversity Institute.

"DuPage River and Salt Creek TMDL Implementation Project – Final Report." September 15, 2009. DuPage River Salt Creek Workgroup.

05-22(319)CD

Title: Monroe County Recharge Area Delineation

Purpose: This project developed a monitoring strategy for groundwater tracing investigations, including background sampling, sampling schedules, equipment and materials to be used and proposed sampling stations. The monitoring strategy was implemented to delineate the recharge areas for Frog Spring, Luhr Spring, Dual Spring and Annbriar Spring, north of Fountain Creek (ILJH03). Recharge delineation maps were developed and other information provided, as found during the delineation process, to help regional and local land-use planners on where nonpoint source pollution is potentially entering the groundwater system. Two one-day Karst short course workshops for local resource managers as well as community and county officials were held to refresh attendees on basic karst concepts, disseminate the results and implications found in the recharge area delineations, present the recent designation of Class III Groundwater and the need for and ways and means of protecting groundwater systems.

Project Location: Monroe County

Subgrantee: Southwestern Illinois RC&D, Inc.
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

“Monroe County Recharge Area Delineations – Final Report.” June 2009. Ozark Underground Laboratory.

05-23(319)CD

Title: Four Winds Way Creek Rehabilitation

Purpose: This project restored 500 feet of failed streambank stabilization practices installed on Four Winds Way Creek, a tributary of the Fox River (ILDT20). Rehabilitation was designed to arrest streambank erosion and reduce nonpoint source pollution through the installation of environmentally sound practices while protecting or enhancing habitat, ameliorating damage from peak flows, reducing velocity of peak flows, and enhancing aesthetic qualities.

Project Location: Kane County

Subgrantee: Kane County Department of Environmental Management
719 Batavia Avenue
Geneva, Illinois 60134

Project Reports and Other Informational Materials:

“Project Report for the Four Winds Way Creek Rehabilitation Project.” August 28, 2008. Kane County Department of Environmental Management.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	500 ft.	0	0	0

05-24(319)SR

Title: Green Roof Installation Project

Purpose: This project installed a 3,092 square foot green roof on the building located at 8 West Monroe in Chicago, Illinois to reduce stormwater runoff and nonpoint source pollution. The green roof reduces the amount and the rate of stormwater runoff entering the combined sewer system thereby reducing the potential for stormwater surges to exceed sewer system capacity and discharge untreated stormwater and municipal sewage into the South Branch Chicago River (ILHC01). The green roof technology used for this project was GreenGrid, 2'x2'x4" module containers containing a growing medium and plant material. An outdoor sign, educational display, and on-line and paper flyers were also developed.

Project Location: Cook County

Subgrantee: Metropolis Condominium Association
8 West Monroe
Chicago, Illinois 60603

Project Reports and Other Informational Materials:

"Final Report - Green Roof Installation Project - 8 West Monroe Chicago, Illinois." June 12, 2009. Metropolis Condominium Association.

05-25 (319)ST

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

05-(319)AW

FFY06 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Otter Lake BMP Effectiveness Monitoring Project

Purpose: This study was designed to assess the effectiveness of the low-flow dam as a best management practice to reduce non-point source inputs to the main body of Otter Lake (ILRDF). The project provided estimates of 1) the amounts of suspended sediment, nitrogen, and phosphorus entering Otter Lake from the West Fork of Otter Creek, 2) the amounts of these constituents that are deposited behind the low flow dam, 3) the amounts of these constituents that are transported through the connection pipe in the dam, 4) and the amounts of these constituents that are transported over the crest of the low-flow dam during high flow events. The quantities of suspended sediment and chemical constituents measured in West Fork Otter Creek were extrapolated to derive an estimate of the total amounts of these constituents entering the lake upstream of the low-flow dam and from all of the watersheds contributing to Otter Lake that have geologic, hydrologic, and topographic characteristics similar to West Fork Otter Creek. From these estimates, the trapping efficiency and long-term retention capability provided by the low-flow dam were estimated.

Project Location: Macoupin County

Subgrantee: U.S. Geological Society

06(319)AW

Title: Waukegan River Water Quality Monitoring

Purpose: The Lake County Health Department developed and implemented a monitoring strategy for the Waukegan River to assist in the implementation and update of a comprehensive watershed plan for the Waukegan River (ILQ01). The strategy continued monitoring of flow conditions on the Waukegan River. In-stream monitoring efforts were accomplished by the deployment of Sondes that collected temperature, conductivity, pH, DO, DO percent saturation, and turbidity data. Additional flow monitoring equipment, automatic samplers and collection of water and sediment samples were utilized to provide background information for current and future planning efforts.

Project Location: Lake County

Subgrantee: Lake County Health Department & Community Health Center
3010 Grand Avenue
Waukegan, Illinois 60085

06-01(319)ST

Title: Animal Waste BMP Program

Purpose: This project provided technical and financial assistance to dairy producers in six northwestern Illinois counties: Carroll, JoDaviess, Stephenson, Whiteside, Ogle, and Lee. This region of the state has many small watersheds and dairy operations spread over a large area. The project implemented a variety of best management practices (BMPs) to reduce polluted runoff from feedlots, adjacent lands, contributing roofs and milk house waste from tank cleaning. Practices included tanks, excavation, electrical, plumbing, and pumps to control milk house waste as well as implementation of clean water diversions, clean water roof gutters, critical area shaping and seeding, and spreaders.

Project Location: Counties of Carroll, JoDaviess, Stephenson, Whiteside, Ogle, and Lee

Subgrantee: Blackhawk Hills RC&D Council
102 East Route 30, Suite 2
Rock Falls, Illinois 61071

Project Reports and Other Informational Materials:

“Northwest Illinois Livestock Project.” September 2009. Blackhawk Hills RC&D Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
558	Roof Runoff Management	3 (no.)	?	873.8	4,367.7
559	Roofing for Runoff Control	2 (no.)	?	338.2	1,693.2
570	Runoff Management System	1 (no.)	?	6.1	33.2
634	Wash Water Recovery	4 (no.)	?	738.6	28.6

06-02(319)JC

Title: Streambank Clean Up & Lakeshore Enhancement (SCALE)

Purpose: This project provided financial assistance to selected applicants to conduct lakeshore and streambank clean-up events. Local organizations that have previously conducted a lakeshore or streambank clean-up event were eligible to participate. The local sponsor was given up to \$3,500 to help conduct their clean-up event. The local sponsor could use the funds for event promotion, event equipment or disposal fees. The project removed over 350 tons of trash from almost 1,500 miles of streams and 350 acres of lakes in Illinois.

Project Location: Statewide

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:

“Stream Cleanup and Lakeshore Enhancement (SCALE) Program.” April 2009. Illinois Environmental Protection Agency.

Title: Watershed Protection, Restoration, and Education

Purpose: This project included four watershed restoration and protection projects as well as watershed-wide project coordination and technical assistance. The Dixie Briggs Fromm Stream Corridor Restoration Project stabilized 2,929 feet of eroding streambanks and bed along a 1,850-foot segment of a small, unnamed stream using 16 riffles, 3 augmented riffles, 10 rock checks, 2 stepped pools, 11 log habitat structures, 4 tree root balls, vegetated geogrid, brush layering, vegetated rock toe, fiber roll, re-shaping of bank slopes. The White's Creek Stabilization Project stabilized eroding streambed and banks along a 1,350-foot segment of White's Creek (ILDTP01), a tributary of the Fox River (IIDT69) located at Espring Park in Geneva, Illinois. The project involved streambed and bank stabilization (coir fiber mat, vegetated geogrid, fiber logs, re-grading, and re-vegetation), establishing a wider natural stream buffer, re-establishing meanders in the low flow channel, creating floodplain terraces that are more accessible to stream flows, and installation of in-stream habitat features such as riffles and gravel substrate. The City of Aurora constructed a stormwater wetland bio-swale, five rain gardens, and a bio-filtration facility to receive and treat runoff before discharging into the Fox River. The City of Aurora also developed a Naturalized Stormwater Management Corridor Plan to control nonpoint source pollution and conducted education and outreach efforts to inform the community about nonpoint source pollution and to encourage residents and land owners to seek technical assistance for stormwater best management practices. The Village of Wheeling stabilized 6,260 feet of eroding streambank along the northern third of Buffalo Creek/Wheeling Drain Ditch (ILGS01), a tributary of the Des Plaines River.

Project Location: Counties of Kane & DuPage

Subgrantee: Northeastern Illinois Planning Commission
233 South Wacker Drive, Suite 800
Chicago, Illinois 60606

Project Reports and Other Informational Materials:

"Fox River and Des Plaines River Watershed Protection, Restoration & Education." July 2010. Chicago Metropolitan Agency for Planning.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
013	Rain Garden	5 (no.)	?	0	5
800	Urban Stormwater Wetland	1 (no.)	?	3	10
845	Infiltration Trench	1 (no.)	?	2	0
580	Streambank/Shoreline Protection	6,260 ft.	639	639	1,278
584	Stream Channel Stabilization	4,279 ft.	256	256	504

Title: Metra Parking Lot Expansion BMPs

Purpose: This project installed best management practices (BMPs) to reduce nutrient and pollutant loading to Lake Sedgewick (ILRGZZ). The BMPs included a stormwater wetland polishing system and street sweeping. As part of the project, an interpretive sign was created and installed to enhance the public's knowledge of non-point source pollution and the BMPs. Lake Sedgewick is included on Illinois 303d list. The installation of BMPs was consistent with the recommendations of the Clean Lakes Diagnostic/Feasibility Study prepared for Lake Sedgewick.

Project Location: Cook County

Subgrantee: Village of Orland Park
14700 S. Ravinia Avenue
Orland Park, Illinois 60462

Project Reports and Other Informational Materials:

"Metra Parking Lot Expansion Sequenced Best Management Practices – Final Report." February 2010. Village of Orland Park.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
017	Street Sweeping	1 (no.)	?	1	0
800	Urban Stormwater Wetland	1 (no.)	?	4	31

06-05(319)CD

Title: North Branch Watershed Project – Phase 5

Purpose: This project implemented additional Best Management Practices (BMPs) in accordance with the North Branch Watershed Management Plan in Lake County. BMPs included streambank stabilization, wetland restoration, gully stabilization, bioswales, and permeable paving. The North Branch of the Chicago River is composed of three forks: the West Fork, Middle Fork, and the Skokie River. All three forks as well as six lakes and ponds in the watershed are listed as impaired waters on Illinois' 303(d) list. This project executed nonpoint source pollution control recommendations of a watershed-based plan for the North Branch Chicago River.

Project Location: Lake County

Subgrantee: Lake County Stormwater Management Commission
333 Peterson Road
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

North Branch Watershed Project Implementation – Phase 5 – Final Report.” March 30, 2010. Lake County Stormwater Management Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
890	Porous Pavement	0.19 ac.	?	1	6
410	Grade Stabilization Structure	7 (no.)	63	53	107
835	Urban Filter Strip	0.37 ac.	?	3	5
580	Streambank/Shoreline Protection	610 ft.	23	23	46
657	Wetland Restoration	4.77 ac.	?	68	234

06-06(319)CD

Title: Permeable Lot Best Practices Project

Purpose: The Peggy Notebaert Nature Museum constructed a porous pavement parking lot that will be used to teach the public that this practice is an effective way to minimize nonpoint source (NPS) pollution. This project was part of a larger greening initiative at the Museum and built on past Section 319 projects. Interpretive signage was developed and installed to educate the public about nonpoint source pollution and the benefits of porous pavement. Lincoln Park North Pond is included on Illinois’ 303(d) list. The installation of porous pavement was consistent with the recommendations of the Clean Lakes Diagnostic/Feasibility Study prepared for Lincoln Park North Pond (ILQZX).

Project Location: Cook County

Subgrantee: The Peggy Notebaert Nature Museum
2430 Cannon Drive
Chicago, Illinois 60614

Project Reports and Other Informational Materials:

“Permeable Lot Best Practices Project – Final Report.” July 2008. The Chicago Academy of Sciences and its Peggy Notebaert Nature Museum.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
890	Porous Pavement	0.19 ac.	?	0	2

06-07(319)ST

Title: Adventures with Aqua

Purpose: The Zoological Society created a new exhibit to provide Brookfield Zoo's visitors with a hands-on experience that will help them learn about watersheds and nonpoint source pollution. Adventures with Aqua is an outdoor adventure game that makes people think about how their daily routines impact their watersheds. The activity provides a learning experience for the whole family. Salt Creek is a Category 1 watershed in the Unified Watershed Assessment and is included on Illinois 303d list. The TMDL and implementation plan for Salt Creek are complete.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

Project Reports and Other Informational Materials:

"Adventures with Aqua – Final Report." January 2008. Chicago Zoological Society.

06-08(319)BL

Title: Implementing BMPs in the Mossville Bluffs Watershed

Purpose: Best management practices (BMPs) were installed to improve water quality, reduce nonpoint source pollution, and enhance aquatic habitat in urban and forested areas in the Mossville Bluffs watershed, a tributary of the Upper Peoria Lake on the Illinois River (ILD30) in Mossville, Illinois. The project included installation of 14 urban stormwater BMPs (i.e., vegetated buffer strips, rain gardens, etc.), 26,068 feet of biotechnical ravine stabilization BMPs (i.e., log check dams, gabions, etc.), and the application of forest BMPs (i.e., thinning of invasive species and prescription woodland burning) on approximately 278.46 acres.

Project Location: Peoria County

Subgrantee: Tri-County Regional Planning Commission
411 Hamilton Boulevard, Suite 201
Peoria, Illinois 61602

Project Reports and Other Informational Materials:

"Implementing Best Management Practices in the Mossville Bluffs Watershed – Final Report and Project Evaluation." September 2009. Tri-County Regional Planning Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
013	Rain Garden	5 (no.)	?	3	16
350	Sediment Basin	3 (no.)	?	2	11
408	Forest Land Erosion Control System	278.46 ac.	16,259	12,252	24,615
410	Grade Stabilization Structure	193 (no.)	34,221	34,221	68,448
800	Urban Stormwater Wetland	1 (no.)	?	1	6
835	Urban Filter Strip	0.76 ac.	?	1	6
840	Grass Lines Channels	0.3 ac.	?	0	1
845	Infiltration Trench	1 (no.)	?	1	9

06-09(319)ST

Title: Updating the La Moine River Watershed Management Plan

Purpose: This project coordinated the upgrade and development of a watershed-based plan for the La Moine River (ILDG06). Elements included in the update included streambank erosion and livestock. A streambank and gully erosion study along with a livestock inventory were conducted. Additionally, a prioritization model was field verified to identify critical locations for the placement of best management practices. The watershed-based plan addresses the 9 minimum elements required by Section 319 of the Clean water Act. The LaMoine River is included on Illinois' 303(d) list.

Project Location: Counties of Adams, Brown, Hancock, McDonough, and Schuyler

Subgrantee: Two Rivers RC & D
110 East Fayette Street, P.O. Box 87
Pittsfield, Illinois 62363

Project Reports and Other Informational Materials:

"La Moine River Watershed Ecosystem Partnership – Updating the La Moine River Watershed Implementation Plan." July 31, 2008. Two Rivers RC & D.

06-10(319)JC

Title: Water Quality Testing at Countryside Lake Association

Purpose: This project allowed the Countryside Lake Association to continue monitoring and assessment activities on Countryside Lake (ILRGQ). This monitoring program continued and enhanced ongoing sampling efforts to document water quality conditions of the lake. Data from this monitoring program was used to access the impacts and changes occurring in the watershed and in and around the lake, which will assist in guiding future best management practices designed to improve water quality by reducing sediment, nutrients and other pollutants while enhancing habitat and aesthetics.

Project Location: Lake County

Subgrantee: Countryside Lake Association
27045 North Maple Road
Mundelein, Illinois 60062

Project Reports and Other Informational Materials:

“Countryside Lake Water Quality Monitoring Program – Final Report.” November 2009. AECOM.

06-12(319)ST

Title: Watershed-Based Plan Development for Aux Sable Creek

Purpose: This project updated the Watershed Management Plan for Aux Sable Creek (ILDW01). The Conservation Foundation and the Aux Sable Watershed Coalition worked with local partners to make sure that the updates address the local concerns. The existing plan (developed in 2001) was updated, expanded, and strengthened to address water quality needs and land use changes occurring in the area. It included a watershed open space plan to assist in land protection to maintain green infrastructure that will lead to restoration and protection of Aux Sable Creek. The project provided education and outreach to elected officials, planning commissions, municipal and county staff, developers and the public to emphasize protection of green infrastructure, promote sustainable development, encourage conservation design, and implement stormwater best management practices to protect water quality.

Project Location: Counties of Kendall and Grundy

Subgrantee: The Conservation Foundation
10 S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

“Watershed Based Plan Development for Aux Sable Creek – Project Report.” June 30, 2009. The Conservation Foundation.

“Aux Sable Creek Watershed Plan.” June 1, 2009. Wills Burke Kelsey Associates, Ltd.

06-13(319)CD

Title: Kickapoo Creek National Monitoring Project

Purpose: This project conducted surface water monitoring of Kickapoo Creek (ILEIE03) to determine the effectiveness of the “Kickapoo Creek Corridor Restoration Project”. Monitoring documented the biological enhancement resulting from the restoration project by determining: 1) effectiveness of the stream restoration in terms of stream fisheries in the restored stream segments, 2) sediment transport through the restored stream segments, 3) construction erosion controls, 4) reduction of stream

bank erosion by revegetation, and 5) effectiveness of floodplain wetland restoration in capturing residential runoff after the housing development has been constructed. Data collection and analysis will also include fecal coliform bacteria samples. All monitoring and associated data collected was entered into U. S. EPA's Nonpoint Source Management System (NPSMS) and U. S. EPA's STORET system.

Project Location: McLean County

Subgrantee: City of Bloomington
109 East Olive Street
Bloomington, Illinois 61701-5219

06-14 (319)JC

Title: Silver Creek Stabilization

Purpose: This project stabilized 1,309 feet of eroding streambanks along a segment of Silver Creek (ILGM01), a tributary of the DesPlaines River, located in Melrose Park, Illinois. Streambanks were stabilized using stone toe protection, vegetated geogrid, slope re-grading, minor clearing of non-native vegetation, re-vegetation with native wetland plugs and seed, and riffles.

Project Location: Cook County

Subgrantee: Village of Melrose Park
1000 N. 25th Avenue
Melrose Park, Illinois 60160

Project Reports and Other Informational Materials:

“Silver Creek Streambank Stabilization Project, Phase 2 Tributary to the Des Plaines River – Section 319 Project Report.” June 2009. Living Waters Consultants, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,309 ft.	202	202	403

06-15 (319)SR

Title: La Moine River Watershed Targeting for NPS Control

Purpose: This project provided for the targeting of watersheds to address specific total maximum daily load (TMDL) and resource concerns in the La Moine River (ILDG06) watershed, including East Fork/Spring Lake, Bureau Creek Watershed and the high quality stream segments that needed riparian areas and easements for permanent protection.

Project Location: Counties of Adams, Brown, Hancock, McDonough, and Schuyler

Subgrantee: University of Illinois
1901 South First Street, Suite A
Champaign, Illinois 61820

Project Period: 05/28/08 through 09/01/10

06-16 & 06-20(319)SR

Title: Clinton Lake Watershed Social Indicator Effort

Purpose: This project developed a strategy to implement a social indicator effort in the Clinton lake Watershed in DeWitt, McLean, and Piatt Counties. In coordination with the Social Indicator Workgroup, the use of social indicators was fine tuned to better document success of Section 319 project implementation. A watershed outreach program was also conducted to facilitate project implementation. Clinton Lake (ILREI) is included on Illinois' 303d list.

Project Location: Counties of DeWitt, McLean, and Piatt

Subgrantee: DeWitt County Soil & Water Conservation District
Rural Route 4, Post Office Box 344a
Clinton, Illinois 61727

Project Reports and Other Informational Materials:

"Clinton Lake Watershed Social Indicator Effort – Final Report." December 10, 2009. DeWitt County Soil & Water Conservation District.

06-17(319)CD

Title: Cermak/Blue Island BMP Demonstration Project

Purpose: The project installed 30,000 square feet of permeable pavers and 756 square feet of bioswales in the South Branch Chicago River (ILHC01) watershed. The project included an outreach component that focused on rainfall events in urban areas, stormwater runoff and best management practices to reduce nonpoint source and stormwater runoff for the protection of urban waterways.

Project Location: Cook County

Subgrantee: Chicago Department of Transportation
30 North La Salle Street, Suite 500
Chicago, Illinois 60614

Project Reports and Other Informational Materials:

“Cermak/Blue Island BMP Demonstration Project – Final Project Report.” September 1, 2010. The Chicago Department of Transportation.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
845	Infiltration Trench	1 (no.)	?	0	1
890	Porous Pavement	0.69 ac.	?	0	2

06-18(319)CD

Title: La Moine River Outreach Program

Purpose: This project informed the La Moine River (ILDG04) watershed community about nonpoint source pollution and encouraged residents and land owners to implement nonpoint source pollution control best management practices (e.g., buffer and filter strips, livestock exclusion, cover crops, nutrient management). The project promoted best management practice implementation and educated the public on the various forms of nonpoint source pollution, their impacts on the environment, methods for reducing nonpoint source pollution, the importance of water quality protection, and watershed principles.

Project Location: Counties of McDonough, and Warren

Subgrantee: Purdue University
Department of Forestry and Natural Resources
195 Marsteller Street
West Lafayette, Indiana 47907-2093

06-19(319)SR

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

06-(319)AW

FFY07 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Low Impact Development Techniques in Madison County, Illinois

Purpose: This project served as a model for developers and municipalities who are interested in implementing Low Impact Development (LID) Best Management Practices (BMPs) within the county. A complementary project funded by the IDNR C2000 program and introduced by the Southwestern Illinois RC&D developed a Guidance Document for the implementation of Conservation Subdivision design. Using this document, staff provided technical assistance to developers and municipal staff to lead toward the implementation of demonstrative BMPs. This project provided funding to developers to implement LID practices to offset costs over and above traditional design.

Project Location: Madison County

Subgrantee: Southwestern Illinois Resource Conservation and Development, Inc.
406 East Main
Mascoutah, Illinois

Project Reports and Other Informational Materials:

“Low Impact Development Techniques in Madison County, Illinois – Final Report & Project Evaluation.” December 31, 2009. Southwestern Illinois Resource Conservation and Development, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	1,647 ft.	472	1	8
012	Cistern	3 (no.)	?	?	?
013	Rain Garden	4 (no.)	?	0	0
800	Urban Stormwater Wetland	2 (no.)	?	0	2
835	Urban Filter Strip	0.04 ac.	?	0	1
840	Grassed Lined Channel	0.2 ac.	?	0	0
845	Infiltration Trench	3 (no.)	?	0	0
890	Porous Pavement	0.05 ac.	?	0	3

07-01(319) ST

Title: Illinois LICA 2007 and 2008 Conservation Expos

Purpose: Best management practices (BMPs) were installed at the Illinois Land Improvement Contractors Association’s 2007 and 2008 Conservation Expo. The BMPs installed demonstrated cost-effective techniques that contractors and landowners can use to reduce nonpoint source pollution.

Project Location: Counties of McLean and Macon.

Subgrantee: Illinois Land Improvement Contractors Association, Inc.
118 E. Knoxville Street, P.O. Box 474
Brimfield, Illinois 61617-0474

Project Reports and Other Informational Materials:

“Illinois LICA 2007 and 2008 Conservation Expos – Final Report.” October 24, 2008. Illinois Land Improvement Contractors Association, Inc.

07-02(319) CD

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Association of Illinois Soil & Water Conservation District (AISWCD) subcontracted with SWCDs to hire staff to facilitate the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conduct field visits to determine program eligibility. The SWCDs completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtained the necessary producer signatures on required documents, and completed all state CREP enrollment forms. The SWCDs coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

“Illinois River Basin CREP Assistance IEPA 319 Grant Final Report. August 2011. Association of Illinois Soil & Water Conservation Districts.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
612	Tree Planting (612)	1,074 ac.	511	814	1,625
880	Permanent Seeding (880)	1,418 ac.	653	1,049	2,095
657	Wetland Restoration (657)	52 ac.	36	54	109

07-03(319) JC

Title: Protecting Water Quality in Urban Centers of Illinois-Phase 2

Purpose: This project maintained and improved water quality in urbanized areas by creating a partnership between urban soil and water conservation districts (SWCDs) and Illinois EPA. Section 319 funds, in combination with local matching dollars or in-kind services, were used to undertake special nonpoint source pollution prevention education/information projects aimed at local government land use decision makers and the development community. Grant funds to SWCDs were used to develop the technical capabilities of SWCD staffs to develop and deliver technical educational materials or to conduct educational workshops or seminars.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street, Illinois State Fairgrounds
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

“Protecting Water Quality in Urban Centers of Illinois-Phase 2 – Final Report.” September 16, 2009. Association of Illinois Soil & Water Conservation Districts.

07-04(319) CD

Title: Libertyville Facility BMP Demonstration Project

Purpose: This project installed a 180 linear foot bioswale (4,830 sq. ft.), three rain gardens (42,337 sq. ft.), 1,395 linear feet of native plant swales (26,831 sq. ft.), and two stormwater wetlands (10.43 acres) at the Lake County Central Permit Facility. This project implemented and displayed nonpoint source pollution control best management practices at the facility to demonstrate good development practices while protecting Bull Creek (ILGV01).

Project Location: Lake County

Subgrantee: Lake County Administrator’s Office
18 North County Street
Waukegan, Illinois 60085

Project Reports and Other Informational Materials:

“Lake County Libertyville Facility BMP Demonstration Project.” July 22, 2010. Lake County Stormwater Management Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
013	Rain Garden	3 (no.)	?	2	13
800	Urban Stormwater Wetland	2 (no.)	?	24	86
835	Urban Filter Strip	0.61 ac.	?	2	16
845	Infiltration Trench	1 (no.)	?	0.5	4

07-05(319)CD

Title: Fox River Stabilization Project

Purpose: This project stabilized approximately 2,306 feet of eroding streambanks along a segment of the Fox River (ILD58) at two highly visible park locations in St. Charles, Illinois. These are Boy Scout Island and St. Mary Park. Streambanks were stabilized with dense, deep-rooted native vegetation and rip rap. Vegetated buffers were also established. Eight “limestone-steppers” were constructed to allow controlled public access to the river and stabilize the eroded paths to the water’s edge. Interpretive signage was installed at each site.

Project Location: Kane County

Subgrantee: St. Charles Park District
8 North Avenue
St. Charles, Illinois 60174

Project Reports and Other Informational Materials:

“Fox River Stabilization Project – Final Report.” December 2009. Kabbes Engineering, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,306 ft.	138	138	277

07-06(319)SR

Title: DuPage River, Salt Creek TMDL Implementation Phase II

Purpose: This project contributed to reductions of chloride from urban runoff, increased awareness and implementation of sediment and erosion control and stormwater best management practices at both the professional and residential level and completed the design phase for two projects to improve dissolved oxygen through dam removal/modification and in-stream aeration. This project also continued the funding of a watershed coordinator. The DuPage River and Salt Creek are included on Illinois 303(d) list. The TMDL and implementation plan for the DuPage River and Salt Creek are complete.

Project Location: Counties of DuPage & Cook

Subgrantee: DuPage River/Salt Creek Workgroup
 10S 404 Knoch Knolls Road
 Naperville, Illinois 60565

Project Reports and Other Informational Materials:

“DuPage River and Salt Creek TMDL Implementation Phase II – Final Report.” October 31, 2010. The DuPage River Salt Creek Workgroup.

07-07(319) CD

Title: North Branch Watershed Project - Implementation Phase 6

Purpose: This project implemented additional best management practices (BMPs) in accordance with the North Branch Watershed Management Plan in Lake County. The North Branch of the Chicago River is composed of three forks: the West Fork, Middle Fork, and the Skokie River. All three forks as well as six lakes and ponds in the watershed are listed as impaired waters on Illinois’ 303(d) list. This project executed nonpoint source pollution control recommendations of a watershed-based plan for the North Branch Chicago River.

Project Location: Lake County

Subgrantee: Lake County Stormwater Management Commission
 333 Peterson Road
 Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

“North Branch Chicago River Watershed Project Phase 6 – Final Report.” November 30, 2010. Lake County Stormwater Management Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
011	Green Roof	0.22 ac.	?	?	?
012	Cistern	1 (no.)	?	?	?
013	Rain Garden	5 (no.)	?	0	77
580	Streambank/Shoreline Protection	13,992 ft.	2,414	871	1,652
657	Wetland Restoration	4.51 ac.	?	44	237
800	Urban Stormwater Wetland	3 (no.)	?	41	179
840	Grassed Lined Channel	1.08 ac.	33	51	101
890	Porous Pavement	0.18 ac.	?	11	103

07-08(319) CD

Title: Otter Lake Shoreline Erosion Control

Purpose: This project continued efforts to stabilize Otter Lake (ILRDF) shoreline by dealing with the most eroded areas first using a barge equipped with a conveyor belt to distribute rip rap in these areas. Approximately 14,657 feet of shoreline were stabilized with rip rap and approximately 1,433 feet of shoreline were protected by planting 800 bald cypress trees and 400 hardwood trees along the shoreline. Otter Lake is on Illinois' Section 303(d) list. Currently the lake and watershed are involved in TMDL development. A watershed-based plan has been developed which identifies the pollutants causing water quality impairments and describes BMPs to be implemented to solve water quality problems.

Project Location: Macoupin County

Subgrantee: Otter Lake Water Commission
6475 West Montgomery Road
P.O. Box 468
Virden, Illinois 62690

Project Reports and Other Informational Materials:

"Otter Lake Shoreline Erosion Control Project." November 3, 2009. Otter Lake Water Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	16,090 ft.	370	370	744

07-09(319) CD

Title: LaMoine Livestock Exclusion

Purpose: This project focused on livestock management and associated habitat restoration activities on the LaMoine River (ILDG-04). Producers were selected for the purpose of excluding livestock from critical stream corridors. Each of the stream segments selected fell within a "priority" implementation list from the LaMoine River Watershed Implementation Plan, April 2006. Best management practices included fencing, livestock exclusion, grassed waterways, water and sediment control basins, water source/watering facilities, comprehensive nutrient management planning, pasture/hay planting, and streambank stabilization and wetland restoration.

Project Location: McDonough County

Subgrantee: Prairie Hills RC &D, Inc.
321 University Drive
Macomb, Illinois 61455

Project Reports and Other Informational Materials:

LaMoine River Livestock Exclusion Project – Final Report.” October 26, 2011. Prairie Hills RC & D, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
412	Grassed Waterway	4 ac.	70	70	140
638	Water and Sediment Control Basin	25,550 ft.	700	384	771
580	Streambank/Shoreline Protection	600 ft.	71	71	143
382	Fencing	10,509 ft.	37	33	66
472	Livestock Exclusion	182.8 ac.	70	66	128
556	Planned Grazing Systems	710.9 ac.	383	507	993

07-10(319) JC

Title: Stabilization of White Pine Drainage Channel

Purpose: This project stabilized 3,635 feet of eroding streambanks along a 1,818 foot segment of the White Pine Drainage Channel which discharges into Buffalo Creek (ILGST), a tributary of the Des Plaines River, located between Sycamore Road and Bernard Drive in Buffalo Grove, Illinois. The project stabilized banks and dissipated the energy of water entering the channel. Existing sediment deposits were removed from stream bed to produce a more consistent flow gradient. The channel was lined with an erosion control blanket and turf reinforcement mat with an 18” boulder lining at the toe of slope. The banks and stream edge were re-vegetated with native plants. Sump pump outfalls were lowered and rip rap placed at storm sewer and sump pump outfalls to reduce scour.

Project Location: Cook County

Subgrantee: Village of Buffalo Grove
51 Raupp Blvd.
Buffalo Grove, Illinois 60089

Project Reports and Other Informational Materials:

“Stabilization and Naturalization of White Pine Drainage Channel.” August 5, 2009. Bonestroo, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	3,635 ft.	130	130	262

07-11(319) JC

Title: Kickapoo Creek Corridor Restoration

Purpose: The project initiated the restoration of Kickapoo Creek (ILEIE03) and its riparian corridor within the limits of the “Grove on Kickapoo Creek” residential development. The project involved re-meandering and bank stabilization of 2,800 feet of Kickapoo Creek north of Ireland Grove Road, installation of 4.5 acres of riparian wetlands, and revegetation of a 40 acre riparian corridor for Kickapoo Creek designed to stabilize soils, slow runoff and erosion, and prevent stormwater pollutants from entering the creek. The restoration site is in HUC 071300090502 and upstream of a TMDL segment.

Project Location: McLean County

Subgrantee: City of Bloomington
109 E. Olive Street
Bloomington, Illinois 61701-5219

Project Reports and Other Informational Materials:

“Kickapoo Creek Project – Phase 1 – Final Report.” July 24, 2009. Farnsworth Group Inc.

07-13(319) JC

Title: Glacial Park Center Stormwater BMPs

Purpose: This project implemented BMPs to reduce nonpoint source pollution to Nippersink Creek (ILDTK-04) and Wonder Lake (ILRTZC) from the new Glacial Park Center for Environmental Research and Exploration in McHenry County, Illinois. The project included the construction of a 75,983 square foot permeable parking lot and drop off area, a system of rain gardens (10,339 square feet), infiltration trenches (1,100 square feet), level spreaders (221 square feet), and approximately four acres of native prairie/woodland restoration. Interpretive signage, an interpretive display (video), and an informational brochure were developed and installed at the site to educate the public about nonpoint source pollution and the BMPs. Nippersink Creek and Wonder Lake are included on Illinois’ 303d list. A watershed-based plan has been completed.

Project Location: McHenry County

Subgrantee: McHenry County Conservation District
18410 U.S. Highway 14
Woodstock, Illinois 60098

Project Reports and Other Informational Materials:

“McHenry County Conservation District Glacial Park Center Stormwater BMPs – Project Report.” May 2011. Conservation Design Forum.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
013	Rain Garden	3 (no.)	?	0.2	0.9
666	Woodland Improvement	4.1 ac.	?	1	2.8
845	Infiltration Trench	2 (no.)	?	0.5	1.6
870	Level Spreader	4 (no.)	?	?	?
890	Porous Pavement	1.74 ac.	?	1.6	16.3

07-14(319)SR

Title: Clean Water: The Role of Trees and Vegetation

Purpose: A one-day forum was held in Moline, Illinois to inform the public about the effective use of trees to filter and absorb nonpoint source pollution. A presentation was also made at three conferences across the state to promote the use of trees for nonpoint source pollution control.

Project Location: Statewide

Subgrantee: Trees Forever
770 7th Avenue
Marion, Iowa 52302

Project Reports and Other Informational Materials:

“Clean Water: The Role of Trees and Vegetation – Final Report.” March 2011. Trees Forever

07-15(319) BL

Title: Mid-Illinois River TMDL Education

Purpose: This project involved the compilation of a comprehensive social resource inventory for the Lower Illinois River-Senachwine Lake Watershed, Hydrologic Unit Code 07130001, that described the ability and willingness of landowners, farmers, local units of governments, and other stakeholders to implement specific best management practices recommended by Illinois EPA and USEPA through the TMDL process. The inventory was designed to help guide the Illinois EPA and USEPA in the development of the Illinois River (Peoria Area) TMDL implementation plan to maximize opportunities for plan implementation. The project also implemented a watershed-based education strategy to engage local stakeholders in the TMDL planning process and result in locally derived guidance for Illinois EPA and USEPA to establish problem statements, goals and objectives for the Illinois River TMDL.

Project Location: Counties of Lee, LaSalle, Bureau, Putnam, Marshall, Peoria, Woodford, & Tazewell

Subgrantee: Tri-County Regional Planning Commission
211 Fulton Street, Suite 207
Peoria, Illinois 61602

07-16(319) ME

Title: Geomorphic and In-channel Habitat Assessment of South Kickapoo Creek

Purpose: This project conducted detailed geomorphic and biological assessments to target and prioritize the in-stream problems in the main stem and three major tributaries of the South Kickapoo Creek (ILDZ3B) at the Marseilles State and Wildlife Area near Marseilles, Illinois. Assessment activities followed the 2009 Illinois River Basin Ecosystem Restoration Geomorphic Watershed Assessment (IRBGWA) Protocols.

Project Location: LaSalle County

Subgrantee: University of Illinois
2204 Griffith Drive
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“South Kickapoo Creek Restoration Project and Addendum - Geomorphic and In-channel Habitat Assessment of South Kickapoo Creek.” November 2011. University of Illinois, Prairie Research Institute, State Water Survey, Center for Watershed Science.

07-17 (319)ST

Title: Mackinaw Riverbank Stabilization - Waibel Project

Purpose: This project stabilized 400 feet of eroding streambank along a segment of the Mackinaw River (ILDK-12). Streambanks were stabilized using a combination of stone toe protection and stream barbs.

Project Location: Tazewell County

Subgrantee: Tazewell County Soil and Water Conservation District
1440 Valle Vista Blvd., Suite B
Pekin, Illinois 61554

Project Reports and Other Informational Materials:

“Mackinaw Riverbank Stabilization - Waibel Project.” September 6, 2011. Maurer-Stutz, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	400 ft.	299	299	598

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

FFY08 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Illinois Urban Manual Update & NPS Program Assistance

Purpose: This project allowed for continued technical, educational, and informational assistance to, and through the county soil and water conservation districts. A Watershed Liaison provided assistance to Illinois EPA regarding water quality issues, program outreach and implementation. This project also systematically updated twenty-five (25) nonpoint source pollution control practice standards contained in the Illinois Urban Manual. The Illinois Urban Manual was updated through the revision of standards that were currently out of date, deletion of those that were obsolete, and inclusion of new standards that had been developed in the growing fields of urban watershed protection and soil erosion and sediment control and water quality research.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
4285 North Walnut Street Road
Springfield, Illinois 62707

Total Project Cost:	\$438,501.00	Cumulative Expenditure:	\$474,011.13
Federal:	\$263,101.00	Federal:	\$263,101.00
State and Local:	\$175,400.00	State and Local:	\$210,910.13

Project Reports and Other Informational Materials:

“Final Report - Illinois Urban Manual Update & NPS Program Assistance.” April 2012. Nelson Land Management LLC.

Title: Streambank Clean Up & Lakeshore Enhancement (SCALE)

Purpose: This project provided financial assistance to selected applicants to conduct lakeshore and streambank clean-up events. Local organizations that have previously conducted a lakeshore or streambank clean-up event were eligible to participate. The local sponsor was given up to \$3,500 to help conduct their clean-up event. The local sponsor could use the funds for event promotion, event equipment or disposal fees.

Project Location: Statewide

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:

Streambank Clean Up & Lakeshore Enhancement (SCALE). February 2011. Illinois Environmental Protection Agency.

08-02 (319)CD

Title: Resource Management Mapping Service

Purpose: This project continued development and maintenance of the best management practice (BMP) database developed by the University of Illinois and Illinois EPA to geographically track BMPs implemented by the Illinois EPA with funding under Section 319 of the Clean Water Act. In cooperation with the Illinois EPA, the University of Illinois identified and implemented proposed enhancements to the interface, database, and design. To maintain the Illinois EPA database and enable new analytic geo-processing functions of the data, funding was also be used to update and expand Resource Management Mapping Service (RMMS), a website maintained at the University of Illinois to aid public stakeholders in watershed management.

Project Location: Statewide

Subgrantee: University of Illinois
1901 South First Street, Suite A
Champaign, Illinois 61820

08-03(319)SR

Title: South Pond Enhancement Demonstration & Education Project

Purpose: This project restored the South Pond (ILQZL) at Lincoln Park Zoo in Chicago, Illinois. Existing asphalt walkways and concrete retaining walls, which have deteriorated, were removed and 3,850 feet of pond edge was re-graded and vegetated with pollutant filtering plants. A 10 to 20 foot buffer strip of prairie grasses and other plants was installed between the park and the pond's shoreline. Asphalt

walkways were replaced with a porous boardwalk made of recycled plastic. This project also used South Pond to educate visitors about water quality and non-point source pollution. Educational activities include hiring a part-time South Pond Program Assistant, development and delivery of teacher training workshops, support for the 4th and 5th annual Build and Grow South Pond Science and Project Fairs in 2008 and 2009, a mobile display booth on the South Pond and clean water issues displayed at events around Chicago and the state by staff and volunteers, and presentations at two conferences. Finally, Integrated Lakes Management trained volunteer naturalists and analyzed the results of a water quality monitoring program.

Project Location: Cook County

Subgrantee: Lincoln Park Zoo
2001 North Clark Street
Chicago, Illinois 60614

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	3,850 ft.	8	9	19
890	Porous Pavement	0.25 ac.	?	1	2

08-04(319)BL

Title: Watershed Capacity Building

Purpose: This project provided capacity-building support to a broad audience of watershed organizations to meet a number of their information and training needs. Illinois specific topics were identified by surveying the major stakeholders addressing Illinois water quality issues such as SWCDs, municipalities, Ecosystem Partnerships, watershed groups, universities and others. The list of topics was broken down into three categories: information needs, training, and technology transfer. Additionally, the survey helped determined the best avenue for information distribution for each type of watershed organization and information type being disseminated. A current list of watershed groups/organizations in Illinois was developed. Ten workshops, covering six different topics, were held in various parts of the state.

Project Location: Statewide

Subgrantee: Prairie Rivers Network
1902 Fox Drive, Suite G
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“Watershed Capacity Building – Strategy Implementation.” April 2011. Prairie Rivers Network.

08-05(319)CD

Title: Fox River Watershed Restoration and Education

Purpose: This project included four watershed restoration and protection projects as well as watershed-wide project coordination and technical assistance. Under the West Dundee Bioinfiltration BMPs project, two bioretention facilities were installed at the end of Oregon Street and Fay Avenue in the Village of West Dundee to receive and treat urban runoff before discharge into the Fox River (ILDT-20). The Norris Woods Creek Stabilization and Water Quality Improvement project stabilized 1,518 feet of eroding streambed in Norris Woods Creek, a tributary to the Fox River (ILDT-58), located in the Norris Woods Nature Preserve in Kane County through the incorporation of small boulders and large cobble into the bed and banks to form a step/pool system that provides secure grade control for the streambed. Consistent with the Poplar Creek watershed-based plan, the South Branch Poplar Creek Action Plan Implementation project stabilized approximately 2,036 feet of eroding streambanks along a 1,080 foot segment of the south branch of Poplar Creek, a tributary of the Poplar Creek (ILD TG02) and the Fox River in Steamwood, Illinois through the use of gabion baskets, coir logs at the toe, slope re-grading, and re-vegetation of banks with native prairie plugs and seed. The Jelkes Creek Reclamation Project restored a 160-acre site on Jelkes Creek (ILD TZQ-01), a tributary of the Fox River and a “Measure W” watershed, located southwest of the Village of Sleepy Hollow in Kane County, Illinois through the use of best management practices, including vegetated bio-swales, native plant filter strips, wetland filtration basins, and naturalized infiltration basins. The project also included various education components.

Project Location: Counties of Kane & Cook

Subgrantee: Chicago Metropolitan Agency for Planning
233 South Wacker Drive, Suite 800
Chicago, Illinois 60606

Project Reports and Other Informational Materials:

“Fox River Watershed Restoration and Education.” December 2011. Chicago Metropolitan Agency for Planning.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,036 ft.	130	130	260
584	Stream Channel Stabilization	1,518 ft.	143	143	287
13	Rain Garden	2 no.	?	1	6
600	Terrace	4,000 ft.	?	0	1
800	Urban Stormwater Wetlands	8 no.	?	3	9
845	Infiltration Trench	8 no.	?	1	2

08-06(319)SR

Title: Clinton Lake Watershed

Purpose: This project began implementation of best management practices (BMPs) to reduce nonpoint source pollution as recommended in the Clinton Lake (ILREI) watershed-based plan. BMPs implemented under this project included approximately 5,290 feet of lake shoreline stabilization using rip rap breakwater with transitional wetland.

Project Location: DeWitt County

Subgrantee: DeWitt County Soil & Water Conservation District
Rural Route 4, Post Office Box 344a
Clinton, Illinois 61727

Project Reports and Other Informational Materials:

“Clinton Lake Watershed – Final Report.” February 2012. DeWitt County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	5,290 ft.	2,116	2,116	4,232

08-07(319) ST

Title: Clinton County Livestock Nutrient Management Project

Purpose: This project provided cost share assistance to livestock producers to implement best management practices (BMPs) to reduce nitrogen and phosphorus from entering Shoal Creek and Sugar Creek within Clinton County. The Southwestern Illinois RC&D retained the services of a Livestock Waste Technician to work with producers within these watersheds to design BMPs to reduce nutrient loading. Shoal Creek (ILOI08) and Sugar Creek (ILOH01) were included on Illinois’ 303d list. A Total Maximum Daily Load (TMDL) is being prepared for Shoal Creek.

Project Location: Clinton County

Subgrantee: Southwestern Illinois Resource Conservation and Development, Inc.
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

“Clinton County Livestock Nutrient Management Project.” June 13, 2012. HeartLands Conservancy.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
590	Nutrient Management	766 ac.	?	843	4,567
312	Waste Management System	5 no.	?	2,015	9,589
558	Roof Runoff Management	2 no.	?	1,124	6,090

08-08(319) JC

Title: Bull Cr./Bull's Brook and Indian Cr. Watershed-Based Plan Implementation

Purpose: This project implemented a variety of nonpoint source pollution control projects within the Indian Creek (ILGU02), Bull Creek and Bull Brook (ILGV01) watersheds. Best management practices were identified in the corresponding approved watershed based plans. All practices were designed to reduce nonpoint source pollution and improve water quality. The Lake County Stormwater Management Commission provided project coordination and oversight.

Project Location: Lake County

Subgrantee: Lake County Stormwater Management Commission
333 Peterson Road
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

“Bull Cr./Bull's Brook and Indian Cr. Watershed-Based Plan Implementation – Final Report.” November 2011. Lake County Stormwater Management Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	14,914 ft.	962.6	617	1,231
581	Ditch Stabilization	150 ft.	16	16	32
657	Wetland Restoration	0.5 ac.	?	1	2
10	Oil and Grit Separator	3 no.	?	1	24
13	Rain Garden	4 no.	?	77	45
835	Urban Filter Strip	0.8 ac.	?	28	180
840	Grass-Lined Channels	0.02 ac.	?	0	3
890	Porous Pavement	0.035 ac.	?	0	1

08-09(319)CD

Title: BMP Implementation Addressing Highland Silver Lake TMDL

Purpose: This project developed a Watershed Based Plan that meets the 9 minimum elements and stabilized 4,130 linear feet of moderate to severely eroded shoreline on Highland Silver Lake (ILROZA), a 550 acre public water supply and recreational lake. Although not financed with Section 319 funding, fencing and alternate watering sources (2 ponds) were installed to prevent livestock from accessing to the lake.

These best management practices are consistent with the recommendations of the Clean Lakes Diagnostic/Feasibility Study and the Highland Silver Lake Total Maximum Daily Load (TMDL).

Project Location: Madison County

Subgrantee: City of Highland
P.O. Box 218
Highland, Illinois 62249

Project Reports and Other Informational Materials:

“Project Evaluation and Completion Report for Highland Silver Lake.” July 2011. HDR Engineering, Inc.

“Watershed Plan for Highland Silver Lake Watershed.” July 2011. HDR Engineering, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	4,100 ft.	657	657	1315

08-10(319) JC

Title: BMP Implementation Addressing Kinkaid Lake Sedimentation & TMDL

Purpose: This project constructed one sediment/nutrient detention basin and stabilized 7,495 lineal feet of eroding shoreline in the Kinkaid Lake (ILRNC) watershed. Shoreline stabilization was accomplished by barge applied rip rap. All practices were designed to reduce nonpoint source pollution and improve water quality. Kinkaid Lake is included on Illinois’ 303d list. A TMDL and Phase 1 Diagnostic / Feasibility Study have been completed for Kinkaid Lake.

Project Location: Jackson County

Subgrantee: Kinkaid-Reed’s Creek Conservancy District
1763 Water Plant Road
Murphysboro, Illinois 62966

Project Reports and Other Informational Materials:

“Kinkaid Lake TMDL Best Management Practices Implementation – Project Evaluation and Final Report.” November 2010. HDR.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	1 (no.)	249	51	102
580	Streambank/Shoreline Protection	7,495 ft.	1,900	1,900	3,795

Title: Barrington Area Community Outreach Program

Purpose: Working with local partners, this project was designed to support implementation of the Flint Creek (ILDZS01) watershed-based plan by providing the resources for a series of educational outreach programs for the community. Four, free to the public sessions were hosted that included short presentations on green gardening, low impact development, how local water protection issues have global ramifications, improving the watershed, what homeowners can do to reduce nonpoint source pollution, lake and riparian water protection, and living next to and in harmony with water resources.

Project Location: Counties of Cook & Lake

Subgrantee: Barrington Hills Conservation Trust
17 Oakdene Road East
Barrington Hills, Illinois 60010

Title: TMDL/Watershed Based Plan Adaptive Implementation Demonstration Project

Purpose: This project developed Total Maximum Daily Loads (TMDL) for the Prairie Creek (ILDGZN01), Indian Creek (ILDJFC), and Dago Slough (ILILDJFCA) watersheds. A monitoring strategy was implemented to collect additional flow and water quality data to supplement existing Illinois EPA water quality information for the project area to identify and locate sources of water quality stressors and to serve as a foundation to develop TMDLs. TMDLs were then developed for the watersheds. This project also developed design specifications for the stabilization of 3,740 feet of eroding streambanks on a segment of South Kickapoo Creek (ILDZ3B).

Project Location: Counties of Hancock and Knox

Subgrantee: The Board of Trustees of the University of Illinois
1901 South First Street, Suite A
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

Load Reduction Strategy and TMDL Final Approved Report - Indian Creek, Dago Slough and Prairie Creek. December 16, 2010. Illinois Environmental Protection Agency.

Title: North Mill Creek Water Quality Study and Watershed Plan

Purpose: This project completed a watershed-based plan for the North Mill Creek (ILGWA) watershed, a tributary of Mill Creek and the Upper DesPlaines River. Water quality monitoring was also performed to aid in the decision making process of targeting critical areas for best management practice implementation to reduce nonpoint source pollution. The assessment also acted as the baseline for measuring future changes in water quality. At the time the plan was developed, 11 assessed waterbodies in the watershed were impaired for aesthetic use and/or aquatic life use and were listed on the 303(d) Impaired Waters List. The completed watershed-based plan meets the nine minimum elements.

Project Location: Lake County

Subgrantee: Lake County Stormwater Management Commission
333 Peterson Road, Suite C
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

“North Mill Creek-Dutch Gap Canal Watershed-Based Plan.” November 2011. Lake County Stormwater Management Commission.

08-14(319)ST

Title: Embarras River Watershed Based Planning

Purpose: This project developed a watershed-based plan for the Embarras River (ILBE01) (Hydrologic Unit Code 05120112) that is designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated October 23, 2003 (as revised), Chicago Metropolitan Agency for Planning’s “Guidance for Developing Watershed Action Plans in Illinois” dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. The City of Charleston worked with local stakeholders to develop an integrated watershed plan for the Embarras River watershed that includes watershed data evaluation and resource inventory along with site specific Best Management Practices recommendations designed to improve water quality by reducing suspended sediment, nutrients and other pollutants while enhancing habitat and aesthetics.

Project Location: Counties of Champaign, Douglas, Edgar, Coles, Clark, Cumberland, Jasper, Crawford, Richland, and Lawrence

Subgrantee: City of Charleston
520 Jackson Avenue
Charleston, Illinois 61920

Project Reports and Other Informational Materials:

“Embarras River Watershed Management Plan.” October 2011. V3 Companies, LTD and Northwater Consulting.

08-15(319)JC

Title: Clear Creek Watershed Plan Update

Purpose: This project developed a watershed-based plan for Clear Creek (ILPZU), a tributary of the Rock River (ILP20), designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated October 23, 2003 (as revised), Chicago Metropolitan Agency for Planning’s “Guidance for Developing Watershed Action Plans in Illinois” dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. The Lost Nation-New Landing River Conservancy District worked with local stakeholders to develop an integrated watershed plan for the Clear Creek watershed that includes watershed data evaluation and resource inventory along with site specific Best Management Practices recommendations designed to improve water quality by reducing suspended sediment, nutrients and other pollutants while enhancing habitat and aesthetics.

Project Location: Counties of Ogle and Lee

Subgrantee: The Lost Nation-New Landing River Conservancy District
205 Cuyahoga Drive
Dixon, Illinois 61021

Project Reports and Other Informational Materials:

“Clear Creek Watershed Action Plan.” September 30, 2011. Olson Ecological Solutions, LLC.

08-16(319)SR

Title: Watershed Liaison

Purpose: Conservation Technology Information Center acted as a liaison between stakeholders, agricultural producers, federal and local partners, and the Illinois EPA in developing and implementing a project that demonstrated the efficacy, value and impact of conservation systems on watersheds and the Illinois’ Nonpoint Source Management Program. The project addressed sedimentation and nutrient loading to the Indian Creek (ILDSPA) watershed in Livingston County through the implementation nutrient management planning and education and outreach activities.

Project Location: Livingston County

Subgrantee: Conservation Technology Information Center
3495 Kent Avenue, Suite J100
West Lafayette, Indiana 47906

Project Reports and Other Informational Materials:

“Indian Creek Watershed Project – Final Report.” July 15, 2013. Conservation Technology Information Center.

08-17 (319) TS

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

08-(319) AW

FFY09 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: North Fork Vermilion River Project - Phase 4

Purpose: This project addressed sedimentation and nutrient loading to the North Fork Vermilion River (ILBPG05) through the implementation of upland best management practices (i.e., grassed waterways and water and sediment control basins) and through the implementation of streambank stabilization. Approximately 2,935 feet of eroding streambank were stabilized using a variety of practices (i.e., longitudinal peaked stone toe protection, critical area seeding and bank re-shaping, root wad installation, stream barbs, and bendway weirs). An educational component of the project included newsletters, media, and tours to inform residents about the water quality impacts of nonpoint source pollution.

Project Location: Vermilion County

Subgrantee: Vermilion County SWCD
1905-A US Rte 150
Danville, Illinois 61832

Project Reports and Other Informational Materials:

“North Fork Vermilion River Project - Phase IV Final Report.” October 2013. Vermilion County Soil and Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
412	Grassed Waterway	17.75 ac.	905	871	1,742
580	Streambank/Shoreline Protection	2,935 ft.	1,426	1,350	2,699
638	Water and Sediment Control Basin	600 ft.	125	125	250

09-01 (319)JC

Title: In-stream Restoration and Monitoring of Kickapoo Creek near Charleston, Illinois

Purpose: This project restored 2,000 feet of bank and channel stability in combination with the establishment of deep pool habitats and riffles along a segment of Kickapoo Creek (ILBEN01) near Charleston, Illinois. Post-construction assessment and monitoring activities was performed to evaluate 1) the effectiveness of the installed streambank and channel stabilization measures, 2) bed load sediment transport and in-stream habitat diversity, 3) hydrologic flow, and 4) fish and macroinvertebrates.

Project Location: Coles County

Subgrantee: Illinois Department of Natural Resources
Office of Realty and Environmental Planning
One Natural Resources Way
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

"Kickapoo Creek Restoration Project, Charleston, Illinois." July 1, 2012. Illinois Department of Natural Resources.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,000 ft.	720	612	1,224

09-02 (319)JC

Title: Silver Creek Stabilization

Purpose: This project stabilized 2,155 feet of eroding streambanks along a segment of Silver Creek (ILGM01), a tributary of the DesPlaines River, located in Melrose Park, Illinois. Streambanks were stabilized using stone toe protection, vegetated geogrid, slope re-grading, fiber roll toe, minor clearing of non-native vegetation, re-vegetation with native wetland plugs and seed, rock points, and two riffles.

Project Location: Cook County

Subgrantee: Village of Melrose Park
 1000 N. 25th Avenue
 Melrose Park, Illinois 60160

Project Reports and Other Informational Materials:

“Silver Creek Streambank Stabilization Project, Phase 3.” November 2010. Living Waters Consultants, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank/Shoreline Protection	2,155 ft.	296	296	593

09-03 (319)SR

Title: Joliet Junior College Lake Clean-up and Management

Purpose: This project installed a variety of best management practices (BMPs) to reduce nutrient and pollutant loading to Joliet Junior College Lake and improve water quality. The project included a 2,050 ft. vegetated bioswale, a 350 ft. wetland swale with stone check dams, and a 1.9 acre stormwater wetland at the downstream end of the bioswales. Fore bays were installed at the entry points to the wetland and also at the wetland outfall. Separators were installed in three locations to treat runoff from parking lots and buildings before it enters the lake. The project also included dredging 7,458 cubic yards of sediment from the lake. The cost of dredging (\$268,125) was paid entirely with local funding and used only as match under the project. Joliet Junior College Lake (ILWGZX) is tributary to Rock Run (ILGBAA-01).

Project Location: Will County

Subgrantee: Joliet Junior College
 1215 Houbolt Road
 Joliet, Illinois 60431-8938

Project Reports and Other Informational Materials:

“Joliet Junior College Lake Clean-up and Management Project.” July 2011. Joliet Junior College.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
007	Dredging	1 (no.)	?	?	?
010	Oil and Grit Separator	3 (no.)	?	?	?
800	Urban Stormwater Wetlands	1 (no.)	?	12	55
814	Bioswale	2.5 ac.	?	?	?

09-04 (319)SR

Title: Holiday Shores Lake Watershed Sediment and Nutrient Reduction Project

Purpose: This project installed best management practices (BMPs) to reduce nutrient and sediment pollutant loading to Holiday Shores Lake (ILRJN) and improve water quality. Approximately 4,000 feet of eroding streambank in the lake's watershed were stabilized. Two sediment basins were constructed on land owned by Holishor Association above the lake on Joulter's Creek. And 8,000 cubic yards of sediment were dredged from an existing sediment pond located at the north end of the lake. Holiday Shores Lake is included on Illinois' 303d list and a TMDL for Holiday Shores Lake has been completed.

Project Location: Madison County

Subgrantee: Holishor Association, Inc.
1 Holiday Point Parkway
Edwardsville, Illinois 62025

Project Reports and Other Informational Materials:

Holiday Shores Lake Watershed Sediment and Nutrient Reduction Project. August 30, 2011. Heneghan and Associates, P.C.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	2 no.	1,250	1,065	2,130
7	Dredging	2 no.	?	?	?
580	Streambank and Shoreline Protection	4,000 ft.	95	81	162

09-05 (319)JC

Title: Flint Creek Watershed Plan Implementation Projects

Purpose: This project retrofitted an existing detention basin located at the Lake Barrington Village Hall by replacing existing turf grass with wet and mesic prairie vegetation and constructing vegetated swales along the east side of the parking lot to collect and filter runoff. Signage was placed at the site to explain the water quality and infiltration benefits of the project. Also, an existing three acre pond (pond 4) in the Braymore Hills subdivision was converted into a stormwater wetland through the addition of floating islands of wetland plants to reduce nutrients in the water. Turf grass along the shoreline was replaced with native vegetation to create a 0.4 acre prairie buffer. Enzyme B504 was applied to the entire 20 acre pond system, of which pond 4 is a part, to break down the organic material on the bottom of the ponds, which is a major source of nutrients. Ultrasonic algae control was also used in pond 4.

Project Location: Counties of Lake & Cook

Subgrantee: Citizens for Conservation Flint Creek Watershed Partnership
 459 West Highway 22
 Barrington, Illinois 60010

Project Reports and Other Informational Materials:

“Flint Creek Watershed Plan Implementation Projects – Final Report.” December 2010. Citizens for Conservation Flint Creek Watershed Partnership.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
019	Aquatic Herbicide Application	3 ac.	?	?	?
027	Nutrient Inactivation	1 (no.)	?	?	?
800	Urban Stormwater Wetland	2 (no.)	?	3	21

09-06(319)SR

Title: Early Childhood Center Water Quality Improvement Project

Purpose: This project installed a variety of best management practices (BMPs) at the Early Childhood Center, a new school in Naperville, Illinois, to reduce nonpoint source pollutant loading to the West Branch of the DuPage River (ILGBK02) and improve water quality. BMPs included rain gardens (20,000 square feet), parking lot bioswales (9,023 square feet), permeable paver bus turn-around area (15,000 square feet), green roofs on portions of the school (1,240 square feet), and a dry bottom detention basin vegetated with native grasses (78,500 square feet). The project also included an education component.

Project Location: DuPage County

Subgrantee: Naperville Community Unit School District 203
 203 West Hillside Road
 Naperville, Illinois 60540

Project Reports and Other Informational Materials:

“Early Childhood Center Water Quality Improvement Project.” February 2011. Wight & Company.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
011	Green Roof	0.03 ac.	?	?	?
013	Rain Garden	6 (no.)	?	3	9
350	Sediment Basin	1 (no.)	?	3	28
845	Infiltration Trench	3 (no.)	?	3	9
890	Porous Pavement	0.35 ac.	?	8	80

09-08(319) CD

Title: West Branch of the DuPage River Improvement Project

Purpose: This project reconnected a 4,900 foot section of the West Branch of the DuPage River (ILGBK09) to its floodplain. The stream channel was raised approximately 2.75 feet over the entire project area. In addition, a series of step pool structures were constructed at the downstream end to provide a transition to the existing lower bed elevations off of the project site. Buried rock sills and grade control structures were installed in the stream and were extended out into the flood plain for long-term grade stabilization. The project site is a one mile section of river within the 20 square mile watershed.

Project Location: DuPage County

Subgrantee: Forest Preserve District of DuPage County
3 S. 580 Naperville Road
Wheaton, Illinois 60187-8761

Project Reports and Other Informational Materials:

“West Branch DuPage River Improvement Project – Final Report.” March 1, 2014. Forest Preserve District of DuPage County.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
009	Stream Channel Restoration	4,900 ft.	2,166	2,166	4,332

09-09(319) CD

Title: Lake Sara Shoreline Protection Project

Purpose: This project stabilized 2,967 feet of eroding shoreline along the northern boundary of the Post Oaks Flatwoods Heritage Landmark on Lake Sara (ILRCE), a public water supply lake in Effingham County, Illinois. The shoreline and bluff areas were impacted by severe erosion due to excessive slopes, saturated upland soils and chronic wave actions. Stabilization of the shoreline was accomplished using transitional wetland breakwaters. This project also developed a watershed assessment study to guide future monitoring and planning decisions.

Project Location: Effingham County

Subgrantee: Effingham Water Authority
P. O. Box 411
Effingham, Illinois 62401

Project Reports and Other Informational Materials:

“Lake Sara Watershed Assessment Study.” July 15, 2011. Lake Sara Erosion Committee.

“Lake Sara Shoreline Protection Project.” March 12, 2012. Effingham Water Authority

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank and Shoreline Protection	2,967 ft.	1,454	1,454	2,907

09-10(319) ST

Title: Implementation of BMPs Addressing Cedar Lake

Purpose: This project stabilized 2,184 feet of eroding gullies and 10,786 feet of moderately to severely eroding shoreline along Cedar Lake (ILRNE). A water and sediment control basin (WASCB) was also constructed as recommended in the Phase I Diagnostic/Feasibility Report.

Project Location: Jackson County

Subgrantee: City of Carbondale
200 South Illinois Avenue
Carbondale, Illinois 62974-9276

Project Reports and Other Informational Materials:

“Watershed Needs Evaluation, Cedar Lake Watershed, Union and Jackson Counties, Illinois.” August 2011. HDR Engineering.

“Project Evaluation and Final Report for the Cedar Lake Implementation Projects, Carbondale, Illinois.” August 2011. HDR Engineering.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
410	Grade Stabilization Structure	61 (no.)	434	434	869
638	Water and Sediment Control Basin	180 ft.	39	24	49
580	Streambank and Shoreline Protection	10,786 ft.	2,446	2,446	4,893

09-11(319) ST

Title: Nippersink Watershed Assessment / Watershed Manager

Purpose: This project funded a part-time watershed manager in the Nippersink Creek (ILDTK04) watershed. This part-time manager provided technical assistance, planned and coordinated pertinent watershed information, identified potential watershed stakeholders for the project to implement best management practices (BMPs), and organized and coordinated meetings. This project also involved a university administered watershed survey/social science study to guide and assess

watershed implementation efforts in the Nippersink Creek and Wonder Lake watersheds. Through voluntary actions of groups and individuals at the local level improvements to water quality through nonpoint source pollution (NPS) control will occur. The watershed survey/social science study will guide the local watershed planning committee to further water quality improvement in this watershed.

Project Location: McHenry County

Subgrantee: Nippersink Watershed Association
P.O. Box 168
Wonder Lake, Illinois 60097

Project Reports and Other Informational Materials:

“Final Report for Nippersink Creek Watershed FY2009 Grant Cycle.” February 2012. Nippersink Watershed Association.

09-13(319) SR

Title: BMP Implementation in Fulton and McDonough Counties, Illinois

Purpose: This project improved water quality by significantly reducing sediment and nutrient loads from gully erosion in two targeted La Moine River Ecosystem Partnership sub-watersheds. Sixteen water and sediment control basins and one diversion were implemented in Fulton and McDonough counties on gullies contributing high sediment and nutrient loadings in Otter Creek (ILDI02) and Camp Creek (ILDGI01) watersheds.

Project Location: Fulton and McDonough Counties

Subgrantee: Two Rivers RC & D
Post Office Box 87
Pittsfield, Illinois 62363

Project Reports and Other Informational Materials:

“BMP Implementation in Fulton & McDonough Counties, Illinois.” July 2012. Two Rivers RC&D Area.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
362	Diversion	300 ft.	6.9	7	14
638	Water and Sediment Control Basin	6,521 ft.	196.9	211	419

09-14(319) ST

Title: Kickapoo Creek Corridor Restoration Phase 2

Purpose: This project continued the restoration of Kickapoo Creek (ILEIE04) and its riparian corridor within the limits of the “Grove on Kickapoo Creek” residential development. The project involved re-meandering and bank stabilization of 5,065 feet of Kickapoo Creek north of Ireland Grove Road, installation of 6.5 acres of riparian wetlands, and re-vegetation of a 39 acres of riparian corridor for Kickapoo Creek designed to stabilize soils, slow runoff and erosion, and prevent stormwater pollutants from entering the creek. The restoration site is in HUC 071300090502 and upstream of a TMDL segment.

Project Location: McLean County

Subgrantee: City of Bloomington
109 E. Olive Street
Bloomington, Illinois 61701-5219

Project Reports and Other Informational Materials:

“Kickapoo Creek Project - Phase 2 – Final Report.” July 14, 2011. Farnsworth Group Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
009	Stream Channel Restoration	5,065 ft.	130	130	258
800	Urban Stormwater Wetlands	5 (no.)	?	77	290

09-15(319) JC

Title: Roosevelt Park Stormwater BMPs and Education

Purpose: This project constructed a 6,900 sq. ft. permeable parking lot and a rain garden to reduce the discharge of nonpoint source pollution into the South Branch of the Waukegan River (ILQCA01) from Roosevelt Park. An interpretive exhibit describing the BMPs was placed at the parking lot. A 350 foot educational boardwalk with three interpretive exhibits was added to the path around the restored wetland in Roosevelt Park to allow access while avoiding impact on sensitive flora and fauna. The interpretive exhibits will inform the public about nonpoint source pollution, the Waukegan River watershed, and what the public can do to improve water quality. Community workdays were held to involve the public in river cleanups and educate them about the watershed. Maintenance and enhancement measures were also implemented on the restored wetland and woodland areas in Roosevelt Park.

Project Location: Lake County

Subgrantee: Waukegan Park District
2211 Ernie Krueger Circle
Waukegan, Illinois 60087

Project Reports and Other Informational Materials:

“Roosevelt Park Stormwater BMPs and Education Project.” December 2011. Waukegan Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
575	Stock Trails and Walkways	350 ft.	?	?	?
13	Rain Garden	1 no.	?	0	3
890	Porous Pavement	0.16 ac.	?	0	6

09-16(319)ST

Title: East Branch South Branch Kishwaukee River Watershed-Based Plan

Purpose: This project developed a watershed-based plan for the East Branch Kishwaukee River (IL_PQCL-02) watershed (HUC 070900060501, 070900060502, 070900060503, 070900060504), a tributary of the South Branch Kishwaukee River (IL_PQC-02), designed to improve water quality by controlling nonpoint source pollution. The plan was developed to be consistent with the consistent with USEPA watershed-based plan guidance found in Appendix C of the Nonpoint Source Program and Grants Guidelines for States and Territories dated April 12, 2013 (as revised), Chicago Metropolitan Agency for Planning’s “Guidance for Developing Watershed Action Plans in Illinois” dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. The East Branch Kishwaukee River (IL_PQCL-02) watershed contains Sycamore Lake (IL_RPZG), which was on the 303d list. The South Branch Kishwaukee River (IL_PQC-02) was also on the 303d list.

Project Location: DeKalb County

Subgrantee: County of DeKalb
110 East Sycamore Street
Sycamore, Illinois 60178

Project Reports and Other Informational Materials:

“East Branch of the South Branch Kishwaukee River Watershed-Based Plan.” July 2014. Hey and Associates, Inc.

09-17(319) ST

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in

the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

09-(319) AW

FFY10 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Streambank Clean Up & Lakeshore Enhancement (SCALE)

Purpose: This project provided financial assistance to selected applicants to conduct lakeshore and streambank clean-up events. Local organizations that have previously conducted a lakeshore or streambank clean-up event were eligible to participate. The local sponsor was given up to \$3,500 to help conduct their clean-up event. The local sponsor could use the funds for event promotion, event equipment or disposal fees.

Project Location: Statewide

Project Reports and Other Informational Materials:

“Streambank Cleanup And Lakeshore Enhancement (SCALE) Program.” January 2013. Illinois Environmental Protection Agency.

10-00 (319)CD

Title: Resource Management Mapping Service

Purpose: This project continued development and maintenance of the best management practice (BMP) database developed by the University of Illinois and Illinois EPA to geographically track BMPs implemented by the Illinois EPA with funding under Section 319 of the Clean Water Act, as well as the new Lakes Program and Watershed-based Plan data layers. In cooperation with the Illinois EPA, the University of Illinois identified and implemented proposed enhancements to the interface, database, and design. To maintain the Illinois EPA databases and enable new analytic geo-processing functions of the data, funding was also used to update and expand Resource Management Mapping Service (RMMS). This website, maintained at the University of Illinois, is useful in aiding public stakeholders in watershed management. This project updated and expanded the databases and resources provided through RMMS. The project included the enhancement of the capability of the Illinois EPA databases, and upgrade of RMMS to new standards and security provisions, research and development of new tools and databases, and update of critical data layers, and improvements based on consultation with Illinois EPA and instructional and research users.

Project Location: Statewide

Subgrantee: University of Illinois
1901 South First Street, Suite A
Champaign, Illinois 61820

10-01(319)SR

Title: Babbling Brook and Lost Lake Stabilization Project

Purpose: This project stabilized 1,650 feet of eroding streambank along a segment of Babbling Brook, which discharges into Lost Nation Lake (ILRPZF) and is part of the Clear Creek (ILPZU) watershed. Streambank stabilization techniques included gabion retaining walls, graded slope with filter fabric and slope mattresses, stone rip rap, coir fiber log toe with turf reinforcement mats, articulated block revetment, and native vegetation. The project also stabilized 2,296 feet of eroding shoreline with rip rap, coir log breakwater, and concrete block retaining wall. An Educational video and photographic educational tool illustrating the installation of the stabilization techniques was developed and a public education event held.

Project Location: Counties of Ogle and Lee

Subgrantee: Lost Nation / New Landing River Conservancy District (RCD) of Illinois
205 Cuyahoga Drive
Dixon, Illinois 61021

Project Reports and Other Informational Materials:

“Babbling Brook and Lost Lake Stabilization Project.” July 12, 2012. Olson Ecological Solutions, LLC.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank and Shoreline Protection	3,946 ft.	244.7	213.7	427.2

10-03 (319)SR

Title: Jelkes Creek Watershed Plan and Nonpoint Source Education

Purpose: This project developed a watershed-based plan for Jelkes Creek (ILDTZQ01), a tributary of the Fox River (ILDT18 and ILDT20), designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with USEPA watershed based plan guidance dated October 23, 2003 (as revised), Chicago Metropolitan Agency for Planning’s “Guidance for Developing Watershed Action Plans in Illinois” dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. This project also educated the public about water quality and the impacts of nonpoint source pollution.

Project Location: Counties of McHenry, Kane, and Cook

Subgrantee: Kane-DuPage Soil and Water Conservation District
2315 Dean Street, Suite 100
St. Charles, Illinois 60542

Project Reports and Other Informational Materials:

“Jelkes Creek- Fox River Watershed Action Plan.” December 2012. Kane-DuPage Soil and Water Conservation District.

10-04(319)ST

Title: Conservation Reserve Enhancement Program (CREP) Staffing

Purpose: This project provided well trained, effective staff “CREP Assistants” to promote and to work with landowners enrolling or currently enrolled in CREP to 1) extend to a 35 year or permanent State conservation easement and/or, 2) enhance the retired land with water quality BMPs. The staff geographically covered the present CREP designated area (Illinois River Basin) and other areas that were negotiated to become designated CREP areas (Kaskaskia River Basin). The distribution of staff was strategically placed to insure the highest level of effectiveness giving priority to acres in close proximity to the lakes and stream segments identified on the 303 (d) and impaired waters that have a TMDL.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

Project Reports and Other Informational Materials:

“Conservation Reserve Enhancement Program (CREP) Staffing.” August 2012. Association of Illinois Soil & Water Conservation Districts.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
327	Conservation Cover	33.3 ac.	143	159	315
612	Tree Planting	533.18 ac.	995	1,349	2,686
880	Permanent Seeding	204.42 ac.	298	465	923
657	Wetland Restoration	254.1 ac.	443	737	1,471

10-05(319) JC

Title: Spring Lake TMDL Plan Implementation

Purpose: The project installed agricultural best management practices in the Spring Lake (ILRDR) watershed according to the Spring Lake Watershed-based Management

Plan, the LaMoine River Ecosystem Partnership Plan and the East Fork LaMoine River TMDL. BMPs implemented under this project included approximately 2,850 feet of terraces, 59 water and sediment control basins, and 5.1 acres of grassed waterways. Additionally, a phosphorous study was completed.

Project Location: McDonough County

Subgrantee: McDonough County Soil & Water Conservation District
1607 West Jackson Street
Macomb, Illinois 61455

Project Reports and Other Informational Materials:

“Spring Lake TMDL Plan Implementation.” July 13, 2012. McDonough County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
412	Grassed Waterway	5.1 ac.	32	32	60
600	Terrace	2,850 ft.	46	14	27
638	Water and Sediment Control Basin	16,400 ft.	833.3	476	1,267

10-06(319) ME

Title: Lake Sara Shoreline Protection Project

Purpose: This project stabilized 2,718 feet of shoreline and bluffs in the Gypsy and Shumway Coves on Lake Sara (ILRCE) in Effingham, Illinois. Stabilization of the shoreline was accomplished using transitional wetland breakwaters. Another 2,307 feet of shoreline was stabilized through the residential shoreline protection program using breakwaters and revetments. The project also included outreach programs to inform the public of the benefits of shoreline stabilization and increase community awareness of water quality.

Project Location: Effingham County

Subgrantee: Effingham Water Authority
P. O. Box 411
Effingham, Illinois 62401

Project Reports and Other Informational Materials:

“Lake Sara Shoreline Protection Project.” July 12, 2012. Effingham Water Authority.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank and Shoreline Protection	5,025	949	949	1,900

Title: DuPage River Salt Creek TMDL Implementation Program

Purpose: The project included 1) the removal of a low head dam and implementation of 23.3 acres of wetland restoration and two riffles in the East Branch DuPage River (ILGBL08) where the impoundment was originally located, 2) two chloride reduction workshops, 3) the development of a project prioritization matrix for use by local and county government staff, 4) development of a monitoring data management system, and 5) part of the watershed coordinators salary. Section 319 funds were not used for the dam removal. The DuPage River and Salt Creek were included on Illinois 303(d) list. The TMDL and implementation plan for the DuPage River and Salt Creek were complete.

Project Location: DuPage and Cook Counties

Subgrantee: DuPage River/Salt Creek Workgroup
10S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

“Final Report DuPage River and Salt Creek TMDL Implementation Phase III.” July 15, 2013. The DuPage River Salt Creek Workgroup.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
016	Dam Removal	1 no.	?	?	?
584	Stream Channel Stabilization	3,000 ft.	41	35	70
657	Wetland Restoration	23 ac.	46	46	92

Title: Otter Lake Shoreline Erosion Control & TMDL Implementation

Purpose: This project stabilized 8,949 feet of eroding shoreline on Otter Lake (ILRDF) using rip rap and by planting 300 bald cypress trees at the edge of the water. Other best management practices (BMPs) were also implemented in the Otter Lake watershed, including six sediment retention basins and twenty-two water and sediment control basins (WASCBs). Otter Lake was on Illinois' Section 303(d) list and shoreline stabilization was recommended in the Hodges Creek Watershed TMDL Report (November 2006) for Otter Lake.

Project Location: Macoupin County

Subgrantee: Otter Lake Water Commission
6475 West Montgomery Road, P.O. Box 468
Virden, Illinois 62690

Project Reports and Other Informational Materials:

“Otter Lake Shoreline Erosion Control & TMDL Implementation Project.” October 1, 2012. Otter Lake Water Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
350	Sediment Basin	6 no.	655	865	2,643
638	Water and Sediment Control Basin	8,234 ft.	878	1,063	3,115
580	Streambank and Shoreline Protection	8,949 ft.	961	961	1,921

10-09(319) TK

Title: Rock River: Nonpoint Source Solutions

Purpose: This project reduced nonpoint source pollution through 1) the installation of rain gardens along roads, parking lots, and other impervious surfaces at Black Hawk College in Moline, Illinois; 2) the restoration of 6.3 acres of wetland on an un-named tributary to the Rock River (ILP25) in the Green Valley Nature Preserve in Moline, Illinois; and 3) the restoration of 985 linear feet of stream channel on an un-named tributary to the Rock River at a new commercial development in Rock Island, Illinois. A public education program was also implemented to explain nonpoint source pollution and promote simple solutions for reducing nonpoint source pollution.

Project Location: Rock Island County

Subgrantee: River Action, Inc.
Post Office Box 964
Davenport, Iowa 52805

Project Reports and Other Informational Materials:

“Rock River: Nonpoint Source Solutions.” December 20, 2013. River Action, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
009	Stream Channel Restoration	895 ft.	11	9	19
657	Wetland Restoration	6.3 ac.	?	93	674
013	Rain Garden	3 no.	?	3	20

10-11(319) ST

Title: BMP Implementation Addressing Kinkaid Lake Sedimentation & TMDL

Purpose: This project installed seven water and sediment control basins, stabilized 2,000 feet of eroding gullies, seeded 86 acres in native grasses, and stabilized 1,258 feet of

eroding shoreline in the Kinkaid Lake (ILRNC) watershed. Shoreline stabilization was accomplished by barge applied rip rap. All practices were designed to reduce nonpoint source pollution and improve water quality. Kinkaid Lake is included on Illinois' 303d list. A TMDL and Phase 1 Diagnostic / Feasibility Study have been completed for Kinkaid Lake.

Project Location: Jackson County

Subgrantee: Kinkaid-Reed's Creek Conservancy District
1763 Water Plant Road
Murphysboro, Illinois 62966

Project Reports and Other Informational Materials:

Project Evaluation and Final Report - Kinkaid Lake TMDL Best Management Practices Implementation. July 2012. HDR.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
327	Conservation Cover	86 ac.	552	608	1,211
412	Grassed Waterway	1.75 ac.	94	94	188
638	Water and Sediment Control Basin	415 ft.	2,278	473	945
580	Streambank and Shoreline Protection	1,258 ft.	322	322	642

10-12(319) JC

Title: Naper Settlement Stormwater Attenuation Action Plan

Purpose: This project implemented BMPs to reduce nonpoint source pollution to West Branch DuPage River (ILGBK02) from the Naper Settlement in DuPage County, Illinois. The project included the construction of 42,900 square feet permeable pavement, 3,100 square feet of bioswales, 8,965 square feet of rain gardens, two cisterns to capture and store rain water from roofs for re-use on site, and 1,095 square feet of infiltration zones. The project installed BMPs as identified in the DuPage River Watershed Plan and addressed pollutants identified in the DuPage River/Salt Creek Watershed TMDL Stage 1 Report.

Project Location: DuPage County

Subgrantee: Naperville Heritage Society
523 South Webster Street
Naperville, Illinois 60540

Project Reports and Other Informational Materials:

"Naper Settlement Stormwater Attenuation Action Plan." January 2012. WRD Environmental, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
12	Cistern	2 no.	?	?	?
13	Rain Garden	8 no.	?	1	2
835	Urban Filter Strip	0.07 ac.	?	0	1
845	Infiltration Trench	7 no.	?	0	3
890	Porous Pavement	1 ac.	?	9	94

10-14(319)CD

Title: American Bottom Wetland Interpretive Site and Educational Campaign

Purpose: This project restored approximately 20 acres of wetlands within the American Bottom floodplain to improve the water quality of Horseshoe Lake (ILRJC) and enhance aquatic habitat. Other best management practices (BMPs) were installed in and around the restored wetlands to reduce nonpoint source pollution, including 464 linear feet of elevated boardwalk over the wetland, a 469 linear foot gravel trail on the west side of the wetland, and a 13,482 square foot permeable pavement parking lot. To educate the public about wetlands, nine interpretive signs were placed at the site, a website was developed, and educational events held.

Project Location: Madison County

Subgrantee: Southwestern Illinois Resource Conservation & Development
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

"American Bottom Wetland Interpretive Site & Educational Campaign - Final Report & Project Evaluation." February 27, 2013. HeartLands Conservancy.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
657	Wetland Restoration	20.47 ac.	?	5	45
575	Trails and Walkways	933 ft.	?	?	?
890	Porous Pavement	0.31 ac.	?	0	2

10-15(319) MF

Title: Nippersink Creek Watershed Plan Implementation

Purpose: The project implemented best management practices identified in the Nippersink Creek Watershed Plan (2008) to improve water quality in Nippersink Creek (ILDTK-06) and Wonder Lake (ILRTZC). Best management practices installed included approximately 780 feet of shoreline stabilization on Wonder Lake, thirty (30) riffles to stabilize approximately 2,500 feet of eroding stream channel, and one low earthen berm water control structure to function as a wetland and reduce gully erosion.

Project Location: McHenry County

Subgrantee: Nippersink Watershed Association (NWA)
P.O. Box 168
Wonder Lake, Illinois 60097

Project Reports and Other Informational Materials:

“Final Report for Nippersink Creek Watershed Plan Implementation FAA 3191016.” June 17, 2013. Nippersink Watershed Association.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank and Shoreline Protection	780 ft.	29	29	56
584	Stream Channel Restoration	2,500 ft.	160	160	320
587	Structure for Water Control	1 no.	?	?	?

10-16(319)CD

Title: Clean Water: Helping Agriculture Protect the Headwaters

Purpose: The Champaign County Soil & Water Conservation District worked cooperatively with local agribusinesses and producers to minimize soil and nutrients from moving into local streams and drainage ditches through the adoption of strip till and deep placement of fertilizer in crop production. A program was implemented to make specialized farm equipment available to producers in Champaign County and to provide cost share payments to producers in Champaign County to implement strip-till, strip-till with deep nutrient placement, and soil testing. The program resulted in 9,997.71 acres of farm land being planted with strip-till or strip-till with deep nutrient placement. The project covered Champaign County with special emphasis on the Salt Fork Vermilion River, Embarrass River, and the Little Vermilion River segments in the county.

Project Location: Champaign County

Subgrantee: Champaign County Soil & Water Conservation District
2110 West Park Court
Champaign, Illinois 61821

Project Reports and Other Informational Materials:

“Clean Water: Helping Agriculture Protect the Headwaters.” July 13, 2012. Champaign County Soil & Water Conservation District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
329	Conservation Tillage	9,997 ac.	21,461	23,691	47,169

10-17(319)JC

Title: Kickapoo Creek National Monitoring Project

Purpose: This project conducted annual vegetation sampling of restored areas of Kickapoo Creek (ILEIE03) to help determine the effectiveness of the Kickapoo Creek Corridor Restoration Project. In the completion of the annual vegetation sampling, the City of Bloomington 1) established permanent transects for all future vegetation sampling; 2) performed qualitative vegetation sampling to characterize the overall floristic integrity of the site; 3) performed quantitative vegetation sampling to provide reproducible and consistent data collection for estimates of species' presence, frequency, relative density, and cover; and 4) produced an annual vegetation report that met the requirements of the United States Geological Survey for inclusion in their national Monitoring Annual Report.

Project Location: McLean County

Subgrantee: City of Bloomington
109 E Olive Street
Bloomington, Illinois 61701-5219

10-18 (319)JC

Title: Kickapoo Creek National Monitoring Project

Purpose: This project conducted surface water monitoring of Kickapoo Creek (ILEIE03) to determine the effectiveness of the "Kickapoo Creek Corridor Restoration Project". Monitoring documented the biological enhancement resulting from the restoration project by determining: 1) effectiveness of the stream restoration in terms of stream fisheries in the restored stream segments, 2) sediment transport through the restored stream segments, 3) construction erosion controls, 4) reduction of stream bank erosion by re-vegetation, and 5) effectiveness of floodplain wetland restoration in capturing residential runoff after the housing development has been constructed. Data collection and analysis also included fecal coliform bacteria samples. All monitoring and associated data collected was entered into U. S. EPA's Nonpoint Source Management System (NPSMS) and U. S. EPA's STORET system.

Project Location: McLean County

Subgrantee: US Geological Survey
1201 West University Avenue, Suite 100
Urbana, Illinois 61801-2347

10-19 (319)JC

Title: Watershed Based Planning

Purpose: This project developed two (2) watershed-based plans, one for Madigan Creek (a portion of HUC 070900060802), a tributary of the Kishwaukee River (ILPQ02), and one for Buckbee Creek (a portion of HUC 070900050401), a tributary of the Rock River (ILP23). Both plans were designed to improve water quality by controlling nonpoint source pollution. The plans are consistent with the USEPA watershed based plan guidance dated October 23, 2003 (as revised), Chicago Metropolitan Agency for Planning's "Guidance for Developing Watershed Action Plans in Illinois" dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles.

Project Location: Winnebago County

Subgrantee: County of Winnebago Highway Department
424 North Springfield Avenue
Rockford, Illinois 61101-5097

Project Reports and Other Informational Materials:

"Winnebago County Watershed Improvement Plan: Buckbee Creek Watershed." July 2013.
Hey and Associates, Inc.

"Winnebago County Watershed Improvement Plan: Madigan Creek Watershed." July 2013.
Hey and Associates, Inc.

10-20(319) ST

Title: Spring Creek Watershed Plan

Purpose: This project developed a watershed-based plan for the Spring Creek (ILDTH01) watershed (HUC 071200061202), a tributary of the Fox River, designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated August 26, 2003 (as revised), Chicago Metropolitan Agency for Planning's "Guidance for Developing Watershed Action Plans in Illinois" dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. This project also educated the public about water quality and the impacts of nonpoint source pollution.

NPS Program: All Sources

Project Location: McHenry County

Subgrantee: Citizens for Conservation Spring Creek Watershed
459 West Illinois Route 22
Barrington, Illinois 60011

Project Reports and Other Informational Materials:

“Spring Creek Watershed-Based Plan – A Strategy for Protecting and Restoring Watershed Health.” September 2012. Applied Ecological Services, Inc.; Integrated Lakes Management, inc.; Tallgrass Restoration, LLC.

“Spring Creek Watershed-Based Plan – A Strategy for Protecting and Restoring Watershed Health – Executive Summary.” September 2012. Applied Ecological Services, Inc.; Integrated Lakes Management, inc.; Tallgrass Restoration, LLC.

10-21(319)ST

Title: Candlewick Lake Watershed Plan

Purpose: This project developed a watershed-based plan for the Candlewick Lake (ILRPV) watershed (a portion of HUC 070900060402), a tributary of Beaver Creek (IL_PQD-07) and the Kishwaukee River (IL_PQ-14), designed to improve water quality by controlling nonpoint source pollution. The plan was developed to be consistent with the consistent with USEPA watershed-based plan guidance found in Appendix C of the Nonpoint Source Program and Grants Guidelines for States and Territories dated April 12, 2013 (as revised), Chicago Metropolitan Agency for Planning’s “Guidance for Developing Watershed Action Plans in Illinois” dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles.

Project Location: Boone County

Subgrantee: Candlewick Lake Association, Inc.
13400 Hwy. 76
Poplar Grove, Illinois 61065

Project Reports and Other Informational Materials:

“Candlewick Streams and Lakes Conservation Plan.” July 1, 2014. Olson Ecological Solutions, LLC.

“Candlewick Streams and Lakes Conservation Plan: Executive Summary.” July 1, 2014. Olson Ecological Solutions, LLC.

10-22(319)SR

Title: Science Assessment to Support an Illinois Nutrient Reduction Strategy

Purpose: This project compiled a comprehensive statewide assessment of the current conditions and practices affecting nutrient losses to Illinois waters. The assessment identified and assessed nutrient (nitrogen and phosphorus) inputs and management practices, including current cropping practices, phosphorus losses, developed nutrient balances to understand the direction of soil pools, identified and estimated

point source influences and determined total nitrogen, nitrate, total phosphorus, and dissolved reactive phosphorus loads leaving the state annually. A report was developed outlining costs and associated expected load reductions, including a discussion of effectiveness expectation for each practice identified. The project identified critical watersheds that will be used by nutrient strategy developers to prioritize watersheds in Illinois for implementation. The project also included the development of scenarios of reductions that might be achieved, costs of implementing each scenario and percent of reduction achieved by each scenario.

Project Location: Statewide

Subgrantee: University of Illinois
1901 S. First Street, Suite A
Champaign, Illinois 61820

Project Reports and Other Informational Materials:

“Science Assessment to Support an Illinois Nutrient Reduction Strategy.” May 6, 2014.
University of Illinois.

10-23(319) AW

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

10-(319) AW

FFY11 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: East Bureau Creek Monitoring Project

Purpose: This project was an agreement between the Illinois EPA and the USGS for the installation, operation, and maintenance of a continuous discharge streamgage and continuous nitrate sensor on East Bureau Creek (ILDQA01, HUC 0713000106) in the Big Bureau Creek watershed. Real-time stream flow and nitrate concentration data results were made available on a USGS website. The data gathered through this project was used to educate citizens in the watershed on local water quality, and to show the improvements that can be made when Best Management Practices are followed.

Project Location: Bureau County

Subgrantee: US Geological Survey
1201 West University Avenue, Suite 100
Urbana, Illinois 61801-2347

11-0(319) AW (FWN12301)

Title: Ravine Stabilization in the Farm Creek Watershed

Purpose: This project stabilized seven (7) eroding ravines in or near the Farm Creek (ILDZZP03) watershed, a tributary of the Illinois River (ILD30). The forested ravines were stabilized using rock lining and gabion baskets at the tow of the ravine. The installation of these grade stabilization structures will help reduce nonpoint source pollution and improve water quality.

Project Location: Tazewell County

Subgrantee: Tri-County Regional Planning Commission
211 Fulton Street, Suite 207
Peoria, Illinois 61602-1332

Project Reports and Other Informational Materials:

“Ravine Stabilization in the Farm Creek Watershed – Final Report and Project Evaluation.” July 2013. Tri-County Regional Planning Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
410	Grade Stabilization Structure	15 no.	14,592	14,592	29,147

11-01(319) ST

Title: Illinois Urban Manual Update & NPS Program Assistance

Purpose: This project allowed for continued technical and educational assistance to, and through, county soil and water conservation districts (SWCDs) on water quality issues. This project also systematically updated the nonpoint source pollution control practice standards contained in the Illinois Urban Manual (IUM). A series of supporting efforts were also carried out under this project, including the development of a pocket field manual for the inspection of soil erosion and sedimentation control practices, training sessions and streaming video tutorials on green infrastructure practices for stormwater management, and presentations describing updates to the IUM.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
4285 North Walnut Street Road
Springfield, Illinois 62707

Project Reports and Other Informational Materials:

“Illinois Urban Manual Update & NPS Program Assistance – Final Report.” February 2014. Association of Illinois Soil & Water Conservation Districts.

“Illinois Urban Manual – Field Manual for Inspection of Erosion and Sediment Control Best Management Practices.” October 2013. Association of Illinois Soil & Water Conservation Districts.

11-03(319)SR

Title: Woods Creek Watershed Based Plan

Purpose: This project developed a watershed based plan for the Woods Creek watershed, which is a subwatershed of HUC 071200061201 and part of the Fox River watershed. Woods Creek is tributary to Lake-in-the-Hills 1W Lake (ILRTZZ) and Crystal Lake Outlet Creek (ILDTZR-01). The Woods Creek watershed based plan was designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated October 23, 2003 (as revised), Chicago Metropolitan Agency for Planning’s “Guidance for Developing Watershed Action Plans in Illinois” dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles.

Project Location: McHenry County

Subgrantee: Village of Algonquin
110 Meyer Drive
Algonquin, Illinois 60101

Project Reports and Other Informational Materials:

“Woods Creek Watershed-Based Plan – A Strategy for Protecting and Restoring Watershed Health.” January 2013. Applied Ecological Services, Inc.

“Woods Creek Watershed-Based Plan – A Strategy for Protecting and Restoring Watershed Health – Executive Summary.” January 2013. Applied Ecological Services, Inc.

11-05(319) CD

Title: Judson University Tyler Creek Restoration

Purpose: This project stabilized 1,536 feet of eroding streambank and 200 feet of eroding streambed and established 0.4 acres of riparian buffer along a segment of Tyler

Creek (ILDZP-02), a tributary of the Fox River, located at the Judson University campus in Elgin, Illinois. Streambanks were stabilized using a combination of stone toe protection, vegetated geogrids, gabion baskets, slope re-grading, minor clearing of non-native vegetation, and re-vegetation with deep-rooted native plants. Stream channel stabilization was achieved through the removal of two existing on-line dams and the installation of two boulder cross vanes and four boulder jetties. The riparian buffer strip was planted with native vegetation to help reduce fecal coliform loadings by discouraging waterfowl from accessing the stream.

Project Location: Kane County

Subgrantee: Judson University
1151 N. State Street
Elgin, Illinois 60123

Project Reports and Other Informational Materials:

“Judson University Tyler Creek Restoration.” November 2013. Trotter and Associates, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
035	Buffer Zone Enhancement / Installation	0.33 ac.	?	?	?
580	Streambank and Shoreline Protection	1,536 ft.	49	49	100
584	Stream Channel Stabilization	200 ft.	?	?	?

11-06(319) CD

Title: Nippersink Creek Watershed Plan Implementation

Purpose: This project continued implementation of the Nippersink Creek Watershed Plan. At Wonder Lake (ILRTZC), approximately 745 linear feet of eroding shoreline over four sites were stabilized through rip rap and a vegetative buffer strip (0.3 acres). At the Manke parcel, this project removed 1,352 feet of agricultural drain tile and vegetated the surrounding area (20 acres of critical area planting). At the Barber Fen parcel, this project 1) stabilized 1,790 linear feet of eroding streambank along a segment of Nippersink Creek (ILDTK-06) and 2) removed 2,198 feet of agricultural drain tile and vegetated the surrounding area (10 acres of critical area planting). Streambanks were stabilized using a combination of stone toe protection, slope re-grading, erosion control blanket, and seeding with native vegetation. At the Wanda parcel, this project 1) stabilized 900 linear feet of eroding streambed on a tributary of Nippersink Creek with 15 riffles and 2) installed 1,800 feet of livestock exclusion fencing. At Wonder Lake, approximately 795 linear feet of eroding shoreline were stabilized through rip rap. On Galt Creek, approximately 1,509 feet of eroding streambank were stabilized.

Project Location: McHenry County

Subgrantee: Nippersink Watershed Association
7602 Hancock Drive
Wonder Lake, Illinois 60097

Project Reports and Other Informational Materials:

“Final Report for Nippersink Creek Watershed Plan Implementation.” December 15, 2014. Nippersink Watershed Association.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
035	Buffer Zone Enhancement / Installation	30.31 ac.	16	33	61
382	Fencing	1,800 ft.	?	?	?
580	Streambank and Shoreline Protection	4,839 ft.	283	280	406
584	Stream Channel Stabilization	900 ft.	10	8	16

11-09(319) CD

Title: North Branch Chicago River Watershed Project

Purpose: This project implemented additional best management practices (BMPs) in accordance with the North Branch Watershed Management Plan. An existing parking lot was replaced with a one acre stormwater wetland and 1,886 feet of eroding drainage ditches were stabilized through re-grading and planting native vegetation in the Village of Bannockburn to treat runoff before discharge to the Middle Fork North Branch of the Chicago River (ILHCCC-02). Approximately 1,810 feet of eroding drainage ditch were stabilized through re-grading and planting native vegetation and 3,445 feet of eroding shoreline over two detention basins were stabilized with native vegetation in the Village of Bannockburn. A rain garden totaling 1,025 square feet was installed at the Metra parking lot in the Village of Deerfield to treat runoff before discharge to the West Fork North Branch of the Chicago River (ILHCCB-05). Approximately 0.77 acres of wetland were restored through re-grading and re-vegetation and 760 feet of eroding drainage ditch were stabilized through re-grading and planting native vegetation in the Village of Green Oaks.

Project Location: Lake County

Subgrantee: Lake County Stormwater Management Commission
500 West Winchester Road
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

“North Branch Chicago River Watershed Project Final Report.” December 2, 2013. Lake County Stormwater Management Commission.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
013	Rain Garden	2 no.	?	43	166
580	Streambank and Shoreline Protection	3,445 ft.	31	52	205
800	Urban Stormwater Wetlands	3 no.	?	58	458
814	Bioswale	2.43 ac.	?	224	1,610

11-10(319) CD

Title: Lake Carlinville Improvements

Purpose: This project installed nonpoint source pollution control best management practices (BMPs) on private property and property owned by City of Carlinville in the Lake Carlinville (ILRDG) watershed. BMPs included 10,614 feet of water and sediment control basins; ten grade stabilization structures; three ponds; three sediment basins; 0.5 acres of grassed waterway; and 275 acres of brush management. An educational program was also implemented. This was Phase 1 of a multi-phase implementation project.

Project Location: Macoupin County

Subgrantee: City of Carlinville
550 North Broad Street
Carlinville, Illinois 62626-1019

Project Reports and Other Informational Materials:

“Carlinville Lake Erosion Control & TMDL Implementation Project.” May 12, 2014. City of Carlinville.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
314	Brush Management	275 ac.	28	28	216
350	Sediment Basin	3 no.	928	654	2,249
378	Pond	3 no.	355	402	1,603
410	Grade Stabilization Structure	10 no.	358	191	624
412	Grassed Waterway	0.5 ac.	17	26	97
638	Water and Sediment Control Basin	10,614 ft.	1,550	1,835	6,167

11-11(319) TK

Title: Cahokia Creek Restoration at Roxana Landfill

Purpose: This project transformed a 4,920 foot segment of highly unstable stream channel on Cahokia Creek (ILJQ-05) into a 3,000 foot stable meandered stream by realigning the channel in three locations to achieve a larger radius curve and installing two (2) rock riffles. Approximately 3,390 feet of stone toe protection

with suitable woody vegetation was established on the outside banks of all meander bends. A 66 foot wide vegetated riparian corridor was established along the entire 3,000 foot reach. In addition, 2.5 acres of wetlands were restored from the abandoned oxbows. An informational brochure was produced and an on-site workshop was conducted.

Project Location: Madison County

Subgrantee: HeartLands Conservancy
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

“Cahokia Creek Restoration at Roxana Landfill.” June 2014. HeartLands Conservancy.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
009	Stream Channel Restoration	3,000 ft.	3,287	3,287	6,574

11-12(319) MF

Title: Naperville Parks Water Quality Improvement Project

Purpose: This project installed a variety of best management practices (BMPs) along with educational signage at four parks within the West Branch of the DuPage River (ILGBK-02) watershed. At Seager Park, a 26,493 square foot permeable parking lot and driveway, a 0.65 acre buffer of native vegetation in and around a dry detention basin, a 6,000 square foot native filter strip around the parking lot, and four interpretive signs were installed. At Weigand Park, a 8,095 square foot permeable parking lot, a 0.25 acre buffer of native vegetation between the parking lot and the river, a 335 square foot permeable walking path, a 775 square foot pervious concrete path, and one interpretive sign were installed. At Knoch Park, one interpretive sign and a 10,000 gallon cistern to capture rainwater from the restroom building, picnic shelter, and playground area for irrigation of the ball fields were installed. At Pioneer Park, one interpretive sign was installed, 6 acres of wetland were restored through the removal of reed canary grass and reseeding with a wet prairie mesic mix, and 1,200 feet of streambank were stabilized. The Naperville Park District also completed 1,833 feet of streambank stabilization at Westglen Commons and 2,103 feet of streambank stabilization at Springbrook Crossing.

Project Location: DuPage County

Subgrantee: Naperville Park District
320 West Jackson Ave.
Naperville, Illinois 60540-5252

Project Reports and Other Informational Materials:

“Naperville Parks Water Quality Improvement Project Final Report.” August 2013. Naperville Park District.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
012	Cistern	1 no.	?	0	1
580	Streambank and Shoreline Protection	5,136 ft.	11	10	23
657	Wetland Restoration	6 ac.	?	5	32
035	Buffer Zone Enhancement / Installation	0.9 ac	?	0	0
835	Urban Filter Strip	0.68 ac.	?	0	0
890	Porous Pavement	0.82 ac.	?	1	10

11-13(319) CD

Title: Carbon Cliff Permeable Streets

Purpose: This project implemented best management practices (BMPs) to reduce nonpoint source pollution associated with urban runoff from the Village of Carbon Cliff prior to discharge to an unnamed tributary of the Rock River (ILP-04). This project replaced three existing asphalt streets with 56,900 square feet of porous pavement (permeable interlocking concrete pavement roadways) constructed over a layer of open-graded stone that serves as the structural base as well as provides temporary storage of runoff. The temporarily stored runoff will either infiltrate into the sub-grade or slowly drain via perforated pipe in the stone base. Also, six stone infiltration channels were constructed in the parkway next to the porous pavement roadway to capture runoff in a gravel trench and allow it to infiltrate into the stone base beneath the roadway. An informational brochure was developed and made available at the Village Hall.

Project Location: Rock Island County

Subgrantee: Village of Carbon Cliff
106 1st Avenue
Carbon Cliff, Illinois 61239

Project Reports and Other Informational Materials:

“Carbon Cliff Green Streets - Green Infrastructure Guide.” (brochures) 2013. Conservation Design Forum.

“Carbon Cliff Permeable Paving Streets – Project Report.” November 2013. Conservation Design Forum.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
845	Infiltration Trench	6 no.	?	22	12
890	Porous Pavement	1.3 ac.	?	1	7

11-14(319) SR

Title: Long Run Creek Watershed Based Plan

Purpose: This project develop a watershed-based plan for the Long Run Creek (IL_GHE-01) watershed (a portion of HUC 071200040703), a tributary of the Illinois and Michigan Canal (IL_GH), designed to improve water quality by controlling nonpoint source pollution. The plan is consistent with the USEPA watershed based plan guidance dated October 23, 2003 (as revised), Chicago Metropolitan Agency for Planning’s “Guidance for Developing Watershed Action Plans in Illinois” dated June 2007, total maximum daily load (TMDL) implementation plan requirements, and current watershed planning principles. The Run Creek (IL_GHE-01) watershed contains Tampier Lake (IL_RGZO), which was on the 303d list for total suspended solids and total phosphorus.

Project Location: Counties of Will and Cook

Subgrantee: Village of Lemont
Lemont Village Hall
418 Main Street
Lemont, IL 60439

Project Reports and Other Informational Materials:

“Long Run Creek Watershed-based Plan.” March 2014. Applied Ecological Services.

11-15(319) SR

Title: Nippersink Watershed Social Evaluation-Phase 2

Purpose: This project continued the efforts of the Phase 1 outreach and educational activities and assessed the effectiveness of ongoing outreach and educational activities to influence changes in knowledge, values, and beliefs about water quality and watershed health within the Nippersink Creek watershed.

Project Location: McHenry County**Waterbody Name (ID):** Nippersink Creek (ILDTK04)

Subgrantee: Nippersink Watershed Association
P.O. Box 168
Wonder Lake, Illinois 60097

Project Reports and Other Informational Materials:

“Final Report for Nippersink Watershed Social Evaluation - Phase II.” September 30, 2014. Nippersink Watershed Association.

11-16(319) CD

Title: Agricultural BMPs Technical Assistance Program

Purpose: This project provided technical assistance to private landowners and farm managers located throughout the North Mill Creek (ILGWA) watershed (HUC 071200040201) to educate and engage them in the implementation of agricultural best management practices (BMPs) to address current water quality impairments.

Project Location: Lake County

Subgrantee: Lake County Stormwater Management Commission
333 Peterson Road, Suite C
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:

“Agricultural Best Management Practice Technical Assistance Program, North Mill Creek-Dutch Gap Canal Watershed - Final Report.” July 15, 2014. Lake County Stormwater Management Commission.

11-17(319) ST

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

11-(319) AW

FFY12 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Streambank Clean Up & Lakeshore Enhancement (SCALE)

Purpose: This project provided financial assistance to selected applicants to conduct lakeshore and streambank clean-up events between 01/01/13 and 01/31/16. Local organizations that had previously conducted a lakeshore or streambank clean-up event were eligible to participate. The local sponsor was given up to \$3,500 to help

conduct their clean-up event. The local sponsor could use the funds for event promotion, event equipment or disposal fees.

Project Location: Statewide

Project Reports and Other Informational Materials:

“Streambank Cleanup And Lakeshore Enhancement (SCALE) Program.” February 2016. Illinois Environmental Protection Agency.

12-0 (319)CD

Title: RMMS Maintenance and Enhancement

Purpose: This project continued the development and maintenance of Illinois EPA water quality databases in the Resource Management Mapping Service (RMMS). These databases included Section 319 funded best management practices, Lakes Program BMPs and diagnostic/feasibility studies, Watershed-based Plans, Illinois Green Infrastructure Grant Program for Stormwater Management (IGIG) BMPs, and Potential NPS Pollution Control Projects as well as new databases specified by Illinois EPA. Funding were also used to update and expand the RMMS website maintained at the University of Illinois, tools needed for analysis, as well as the public and internal reports generated. RMMS, as a vehicle for interactively creating and managing records in these water quality databases, provided the ability for data to be viewable and queryable and reports to be generated based on that data instantaneously. While the databases and the website are external to Illinois EPA, work was done under the direction of the Illinois EPA Bureau of Water.

Project Location: Statewide

Subgrantee: University of Illinois
1901 South First Street, Suite A
Champaign, Illinois 61820

12-01(319)SR

Title: Conservation Reserve Enhancement Program (CREP) Staffing

Purpose: This project provided well trained, effective staff (CREP Resource Specialists) to promote and to work with landowners enrolling or currently enrolled in CREP to 1) extend to a 35 year or permanent State conservation easement and/or, 2) enhance the retired land with water quality BMPs. The staff geographically covered the CREP designated areas (Illinois & Kaskaskia River Basins). The distribution of staff were strategically placed to insure the highest level of effectiveness giving priority to acres in close proximity to the lakes and stream segments identified on the 303 (d) and impaired waters that have a TMDL. A project report was prepared that explains the project goals and documents the steps taken and results achieved. The report included a list of the soil and water conservation districts involved and their CREP accomplishments, including a summary by 12-digit Hydrologic Unit Code (HUC) of

the CREP best management practices (BMPs) implemented in association with this project.

Project Location: Statewide

Subgrantee: Association of Illinois Soil & Water Conservation Districts
4285 N. Walnut Street Road
Springfield, Illinois 62707

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
612	Tree Planting	989.9 ac.	1,974	1,974	3,951
880	Permanent Seeding	243.2 ac.	674	674	1,343
657	Wetland Restoration	483.6 ac.	845	845	1,691
666	Woodland Improvement	2,112 ac.	-	-	-

12-02(319) JC

Title: Flint Creek Stream and Floodplain Restoration

Purpose: This project stabilized approximately 1,900 feet of eroding streambanks and streambed and established a 25 ft. wide vegetative buffer (4 acres) over two segments of North Flint Creek, a tributary to Grassy Lake (VTI) and Flint Creek (ILDZS-01) in the Village of North Barrington. The segments included both sides of an approximately 2,000 foot stretch (upstream site) in Section 13, T43N, R9E and the north side of a 300 foot stretch (downstream site) in Section 14. Streambanks were stabilized through re-grading, riprap stone toe protection (1,797 ft on upstream site & 103 ft on downstream site), erosion control matting, native plant plugs and trees, native seed, riffles (18 on upstream site & 2 on downstream site), and vegetated geogrid. Additionally, the village informed the community about the project through newsletters, public meetings/presentations, and web updates.

Project Location: Lake County

Subgrantee: Village of North Barrington
111 Old Barrington Rd.
North Barrington, Illinois 60010

Project Reports and Other Informational Materials:

“Flint Creek Stream and Floodplain Restoration – Final Report.” January 15, 2014. Village of North Barrington.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank and Shoreline Protection	1,900 ft.	56	49	96
835	Urban Filter Strip	4.0 ac.	-	5	56

12-03 (319)JC

Title: Lake Sara Shoreline Stabilization Project

Purpose: This project stabilized 9,577 feet of eroding shoreline on Lake Sara (ILRCE) through the installation of transitional wetland breakwaters. Another 3,911 feet of eroding bare shoreline or deteriorated seawall were stabilized with rip rap by private landowners at their expense. An information and education program was implemented that consisted of brochures, resident program letters, public awareness presentations, and booth displays.

Project Location: Effingham County

Subgrantee: Effingham Water Authority
P. O. Box 411
Effingham, Illinois 62401

Project Reports and Other Informational Materials:

“Lake Sara Shoreline Protection Project.” February 19, 2014. Effingham Water Authority.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank and Shoreline Protection	13,488 ft.	1,158	1,158	2,315

12-04(319) ST

Title: City of Tuscola NPS Pollution Reduction Project

Purpose: This project constructed 2,700 feet of two-stage drainage ditch along Scattering Fork (IL_BER-01), a tributary of the Embarras River. The floodplain shelf on the west bank was expanded 30 feet and one acre of bioswale installed along the channel to maximize the impact the floodplain shelf has on the stormwater runoff within the watershed. Do to site constraints and the urban nature of the site, a two-stage shelf was only constructed on the west bank. The two-stage ditch reduced erosion and sediment and nutrients in the stream. Also, a stormwater treatment wetland was constructed outside of the channel at the north end of the project site to trap urban runoff from residential areas. This wetland receives and treats runoff from high flow events in Scattering Fork and tile flow from adjacent crop ground was modified to outlet directly into the wetland prior to reaching the stream.

Project Location: Douglas County

Subgrantee: City of Tuscola
214 N. Main Street
Tuscola, Illinois 61953

Project Reports and Other Informational Materials:

“City of Tuscola NPS Pollution Reduction Project.” January 31, 2014. City of Tuscola.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
009	Stream Channel Restoration	2,700 ft.	13.5	100	611
800	Urban Stormwater Wetlands	1 no.	13.5	100	611

12-05(319)SR

Title: Clinton County Livestock Waste Management Project

Purpose: This project assisted nine livestock producers in the Shoal Creek (ILOI-08) and Sugar Creek (ILOH-01) watersheds within Clinton County with their waste handling facilities. Only facilities located in impaired watersheds that had livestock identified as a source of impairment were eligible. Any facility that required an NPDES permit was not eligible. All nine facilities that received assistance had a Comprehensive Nutrient Management Plan (CNMP) developed that met the NRCS requirements.

Project Location: Clinton County

Subgrantee: HeartLands Conservancy
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

“Clinton County Livestock Nutrient Management Project.” July 2015. HeartLands Conservancy, Inc.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
312	Waste Management System	4 no.	-	1,705	8,523
313	Waste Storage Structure	1 no.	-	127	634
558	Roof Runoff Management	1 no.	-	76	630
559	Roofing for Runoff Control	6 no.	-	1,528	2,861

12-06(319) JC

Title: West Branch DuPage River Corridor Restoration

Purpose: This project included riparian zone restoration and bank stabilization along a 3.3 mile segment of the West Branch DuPage River (ILGBK05) just upstream of Warrenville, in the McDowell Grove Forest Preserve in Naperville, Illinois. Best management practices included 1) the implementation of 7,625 linear feet of streambank stabilization using vegetated rock toe, emergent wetland toe, large woody debris,

and boulder clusters; 2) the implementation of six (6) pool/riffles for stream channel stabilization; 3) the installation of energy dissipation practices at nine (9) sites within the project area; 4) site preparation including removal of existing vegetation and the re-grade of incised banks into floodplain terraces to allow the river to access the floodplain areas more frequently; and 5) the restoration of 58.25 acres of wetland and/or riparian buffer vegetation. The project also included an outreach component to educate the public about nonpoint source pollution reduction opportunities available to them.

Project Location: DuPage County

Subgrantee: DuPage County Division of Stormwater Management
421 N. County Farm Road
Wheaton, Illinois 60187

Project Reports and Other Informational Materials:

“West Branch DuPage River Corridor Restoration Project – Final Report.” September 30, 2014. County of DuPage Department of Stormwater Management.

BMP Implementation Summary:

BMP Code	BMP Name	Amount	Estimated Load Reduction		
			Sediment (Tons/Yr.)	Phosphorus (Pounds/Yr.)	Nitrogen (Pounds/Yr.)
580	Streambank and Shoreline Protection	7,625 ft.	366	366	732
584	Stream Channel Stabilization	9,800 ft.	?	?	?
035	Buffer Zone Enhancement/Installation	58.25 ac.	92	140	261
910	Rock Outlet Protection	9 no.	?	?	?

12-07(319) CD

Title: Nonpoint Source Pollution Management Workshop

Purpose: Illinois EPA hosted the first statewide biennial NPS pollution management workshop for Illinois EPA staff and local, state, and federal partners to interact with those groups and individuals that are committed to reducing NPS pollution to Illinois water resources. Future biennial workshops will alternate between rural and urban agendas. The 2012 workshop focused on nutrients and other rural issues and included components that presented information on topics such as development and implementation of watershed based plans, Total Maximum Daily Loads (TMDL) and Load Reduction Strategies (LRS). The workshop also presented best management practice (BMP) technologies and application, and the use of water quality and technology-based tools for NPS pollution control. The workshop was designed to capture stakeholder and partner needs in regard to the Program to be used in the NPS Management Program Feedback Loop.

Project Location: Statewide

Project Reports and Other Informational Materials:

“Rural Landscape NPS Workshop – Final Report.” June 28, 2013. Illinois Environmental Protection Agency.

12-08 (319)CD

Title: Total Maximum Daily Load Development

Purpose: The Illinois EPA developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within selected watersheds on the 303(d) list through computer modeling. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

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