South Dakota

Nonpoint Source Pollution Program Annual Report Federal Fiscal Year 2024

Prepared by

South Dakota Department of Agriculture and Natural Resources

Watershed Protection Program



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South Dakota Nonpoint Source Program Fact Sheet Federal Fiscal Year (FFY) 2024

Date of FFY 2024 Section 319 Project Grant Award: July 2, 2024 Amount of FFY 2024 Section 319 Project Grant: \$2,644,000

For EPA grant award purposes, half of the grant award is designated as Program Funds that can be used for all activities that support the goals of the state NPS Management Plan. The other half is designated as Project Funds that must be spent on watershed projects to restore impaired waters.

Amount FFY 2024 Project Funds: \$1,322,000Amount FFY 2024 Program Funds: \$1,322,000

FFY 2024 Third-Party Section 319 NPS Projects Awarded:

- Belle Fourche River Watershed Partnership \$699,000 of Section 319 funds and \$200,000 of CWSRF-WQ funds for the Belle Fourche River Watershed Management and Implementation Project Segment 10 (Amendment)
- James River Water Development District \$1,215,000 of Section 319 funds for the South Central Watershed Implementation Project – Segment 2 (Amendment)

Total number of Active Section 319 NPS Projects in FFY 2024: 6

- Belle Fourche River Watershed Management and Implementation Project Segment 10
- Big Sioux River Watershed Project Segment 4
- Prairie Coteau Watershed Improvement and Protection Project Segment 1
- Soil Health Improvement and Planning Project Segment 3
- South Central Watershed Implementation Project Segment 2
- South Dakota NPS Information and Education Project Segment 7

FFY 2024 Total Pollutant Load Reduction Estimates:

Sediment: 19,194 tonsPhosphorus: 34,122 lbs.Nitrogen: 137,925 lbs.

Individual Section 319 NPS project load reductions for FFY24 can be found in Table 10.

Load reductions in the 2024 Annual Report are provided for the federal fiscal year using reductions that have been reported to the Department's Tracker database. Pollutant load reductions will be downloaded from EPA's Grant Reporting and Tracking System (GRTS) to maintain consistency between South Dakota's NPS Annual Report and the GRTS database.

Summary of BMPs implemented by South Dakota 319 NPS projects in FFY 2024

- Ag Waste Systems
 - 4 comprehensive nutrient management plans
 - o 4 engineering plans
 - 4 waste management systems
- Conservation Tillage
 - 1,274 acres of conservation tillage residue management
- Cropland BMPs
 - o 1,900 acres of cover crops
- Grassed Waterways
 - 1,932 linear feet of grassed waterways
- Grazing Management
 - o 31,894 linear feet of fence
 - 1 grazing management plan
 - 5,037 acres of grazing planned systems
 - o 17,467 feet of livestock pipeline
 - 523 acres of range planting
 - 19 livestock water tanks/troughs/alternative water sources

- 15 acres of tree/shrub establishment
- Information and Education
 - o 6 meetings and workshops
- Irrigation Water Management
 - 1 irrigation systems-sprinklers
- Perennial Vegetation
 - 247 acres of grass seeding
- Riparian Restoration/Protection
 - 54 acres of grass seeding
 - 119 acres of riparian area management
 - 150 acres of riparian buffers
 - 326 acres of seasonal riparian area management
 - 26,279 feet of stream exclusion with grazing land management
 - 11,206 streambank and shoreline protection
- Water Quality Monitoring
 - o 13 QA/QC samples
 - o 130 Stream Samples

Table 1. Summary of BMP Expenses

Description	319	State	Local	Other	Total
				Federal	
Ag Waste System	\$9,175.31	\$33,783.82	\$3,591,714.58	\$1,474,816.55	\$5,109,490.26
Bank Stabilization	\$575.00	\$0.00	\$0.00	\$0.00	\$575.00
Cropland BMPs	\$49,264.22	\$0.00	\$108,075.74	\$12,371.17	\$169,711.13
Grassed Waterways	\$9,255.00	\$0.00	\$6,573.75	\$0.00	\$15,828.75
Grazing Management	\$91,748.05	\$134,697.03	\$278,992.30	\$431,038.22	\$936,475.60
Information and Education	\$0.00	\$0.00	\$414.34	\$0.00	\$414.34
Irrigation Water Management	\$68,731.43	\$0.00	\$102,113.84	\$482,858.43	\$653,703.70
Perennial Vegetation	\$24,700.00	\$0.00	\$38,199.52	\$0.00	\$62,899.52
Riparian Restoration/Protection	\$61,426.86	\$845,304.20	\$20,038.90	\$25,570.00	\$952,339.96
Totals	\$803,560.52	\$1,103,126.58	\$4,248,939.16	\$2,664,429.31	\$8,820,055.57

South Dakota Department of Agriculture and Natural Resources Nonpoint Source Pollution Program Annual Report Federal Fiscal Year 2024

South Dakota NPS Program Structure and Management

The South Dakota Nonpoint Source (NPS) Pollution Program is administered by the South Dakota Department of Agriculture and Natural Resources' (DANR) Watershed Protection Program. NPS pollution activities completed by program staff are selected to improve, restore, and protect the water quality of the state's lakes, streams, and wetlands in partnership with other organizations, agencies, and citizens. For more information about DANR's NPS activities visit:

https://danr.sd.gov/Conservation/WatershedProtection/default.aspx

The South Dakota Nonpoint Source Task Force is DANR's primary partner for implementation of the South Dakota NPS Program. The task force is a citizens' advisory group with a membership of more than 20 agencies, organizations, and tribal representatives (see Table 2). For additional information about the Task Force visit:

https://danr.sd.gov/Conservation/WatershedProtection/NonpointSource.aspx

Table 2. NPS Task Force Core Agencies & Interest Groups

Corn Growers Association	Izaak Walton League of America
Planning Districts	SD Cattlemen's Association
SD Association of Conservation Districts	SD Conservation Commission
SD Chapter of the Sierra Club	SD Dept. of Agriculture and Natural Resources
Water Development Districts	SD Dept. of Transportation
SD Dept. of Game, Fish and Parks	SD Farmers Union
SD Farm Bureau	SD Pork Producers
SD Grassland Coalition	South Dakota State University
SD Wheat, Inc.	US Fish and Wildlife Services
US Bureau of Reclamation	US Geological Survey
US Forest Service	Natural Resource Conservation Service

319 Grant

The South Dakota Department of Agriculture and Natural Resources' FFY 2024 Section 319 grant award from the Environmental Protection Agency (EPA) consisted of \$1,322,000 in Program funds and \$1,322,000 in Project funds. The \$2,644,000 total award was allocated as follows: Staff & Support - \$842,000 and 319 Projects - \$1,802,000. Projects awarded funding from the Department's FFY 2024 Grant are listed in Table 3. For EPA grant award purposes, half is designated as Program Funds that can be used for all activities that support the goals of the state NPS Management Plan. The other half is designated as Project Funds that must be spent on watershed projects to restore impaired waters as well as protect unimpaired waters.

The South Dakota Board of Water and Natural Resources awarded \$200,000 in Clean Water State Revolving Fund (CWSRF) Water Quality Grant dollars to supplement the 319 pass-through funds. See Table 8.

Table 3. FFY 2024 Section 319 Project Awards

Project		Grant (\$)	
Staff & Support	Program	Project	Total
DANR Staffing and Technical Support	\$ 842,000		\$ 842,000
Implementation			
Belle Fourche River Watershed Project – Segment 10		\$699,000	\$699,000
(amendment)			
South Central Watershed Implementation Project – Segment 2	\$480,000	\$623,000	\$1,103,000
(amendment)			
Total 319 Funds	\$1,322,000	\$1,322,000	\$2,644,000

Projects awarded additional Section 319 funding during FFY 2024 using prior year funds reverted from closed watershed projects that did not expend their total grant award are listed in Table 4.

Table 4. Projects Awarded Section 319 Grants from Prior Year Funds

Project	Grant (\$)	319 Grant Year
South Central Watershed Implementation Project – Segment 2	\$197,000	2020
Prairie Coteau Watershed Improvement and Protection Project –		2022
Segment 1	\$180,000	
Total	\$450,000	

Active 319 Projects

A list of Section 319 projects funded by previous grant awards that were open during the FFY 2024 reporting period is provided in Appendix A. Projects are listed by river basin.

Completed 319 Projects

Table 5 contains a list of 319 projects closed during FFY 2024. The status of the final report is listed for each project.

Table 5. 319 Projects Closed During FFY 2024

	Final Report Status					
	In	In In Review		Appro	Approved	
Project	Preparation	DANR	EPA	DANR	EPA	
SD NPS Information and Education Project			Χ	Х		
Segment 6						
Soil Health Improvement and Planning Project			Х	Х	•	
Segment 2						

A historical list of Section 319 projects completed by DANR and its project partners is provided in Appendix B. The projects are listed alphabetically by river basin. Unless otherwise indicated, a final report for each project has been filed with EPA, entered in the Grant Reporting and Tracking System (GRTS), and is available from the SD State Library. Several of the reports are also available by visiting:

https://danr.sd.gov/Conservation/WatershedProtection/ReportsPublications.aspx

During 2024, DANR continued activities to close out all 319 grants awarded to the department by their expiration date. In 2025, the 2020 grant is on target for being completed on time. There is some remaining reverted money that will be spent prior to the end date for the FY2020 grant. See Appendix F for the final FFY 2019 report.

604(b) Grant

South Dakota had three 604(b) grants open during the FFY 2024 reporting period. The Section 604(b) project activities are detailed in Table 6.

Table 6. 604(b) Projects Active in FFY 2024

Grant #C6-96854622					
1-Oct-2022 t	1-Oct-2022 through 30-Sep-2024				
Project	Grant (\$)	Status			
	\$88,000.00 (BIL				
Rotating Basins Project (Black Hills)	Funds)	On Schedule			
Rotating Basins Project (Black Hills) South Central Water Quality Monitoring Project (James River Water Development	\$5,000 (Emerging Contaminants)	On Schedule			
District)	\$50,000	On Schedule			
DANR Salaries and Water Quality Samples	\$7,000	On Schedule			
	\$150,000				

	Grant #C6-96854623					
	1-Oct-2023 through 30-Sep-2025					
Project	FY2023 Base	FY2023 BIL	BIL Emerging	Total	Status	
	Funds	Funds	Contaminants			
Rotating Basins		\$88,000	\$11,000	\$99,000	On Schedule	
Project						
South Central	\$6,500	\$15,000		\$21,500	On Schedule	
WQ Monitoring						
Project						
DANR Personnel	\$30,500			\$30,500	On Schedule	
& WQ Samples						
Total	\$37,000	\$103,000	\$11,000	\$151,000		

	Grant #C6-96854624					
	1-Oct-2024 through 30-Sep-2026					
Project	FY2024 Base	FY2024 BIL	BIL Emerging	Total	Status	
	Funds	Funds	Contaminants			
Rotating Basins Project		\$88,000	\$11,000	\$99,000	On Schedule	
South Central WQ Monitoring Project	\$1,500	\$25,000		\$26,500	On Schedule	
DANR Personnel & WQ Samples	\$38,500			\$38,500	On Schedule	
Total	\$40,000	\$113,000	\$11,000	\$164,000		

A historical listing of completed 604(b) projects is provided in Appendix C.

Section 106 Categorical Grant

South Dakota had two 106 Supplemental Categorical grants open during the FFY 2024 reporting period (#I-96872401-2 and #I-00I56701). Grant <u>#I-96872401-2</u> includes the FFY22 and FFY 23 grants. Grant <u>#I-00I56701</u> includes the FFY24 grant. The Section 106 project activities for both are detailed in Table 7.

Table 7. Section 106 Categorical Grant Activities

Grant #I-96872401-2	
1-Oct-22 through 30-Sep-27	
Project	Grant (\$)
2023-24 National Rivers/Streams Assess (NRSA) – State Scale Survey	\$296,286
Stream Reference Site Development	\$59,155
Statewide Lakes Assessment/Harmful Algal Blooms	\$90,000
Use Attainability Analysis	\$50,000
Statewide Streamflow Monitoring Network	\$49,240
Rotating Basins Project	\$80,000
Region 8 303(d) Conference	\$5,000
TOTAL	\$629,681
Grant #I-00I56701-2	
1-Oct-24 through 30-Sep-29	
Project	Grant (\$)
Stream Reference Site Development	\$68,000
Statewide Lakes Assessment/Harmful Algal Blooms	\$50,000
Use Attainability Analysis	\$23,000

Statewide Streamflow Monitoring Network	\$14,000
Kisters WQ Database Development	\$13,775
TOTAL	\$168,775

A historical listing of completed Section 106 projects is provided in Appendix D.

Grants Reporting and Tracking System

South Dakota enters 319 project information into the EPA Grants Reporting and Tracking System (GRTS) database. The GRTS database contains information about project funding, goals, and tasks. DANR entered annual evaluations for all projects active in FFY 2024. The reports detail project activities and progress for the period October 1, 2023, through September 30, 2024. The GRTS database can be accessed at:

https://ofmpub.epa.gov/apex/grts/f?p=109:1:3697814748928:::::

Staff

During the reporting period, the Watershed Protection Program was authorized 15 full-time equivalents (FTE). Included in the number were 13 environmental scientists, one natural resource engineer and one program administrator. Visit the DANR website for contact information.

https://danr.sd.gov/ContactUs/default.aspx

Watershed Protection Program staff provided funded projects with technical assistance and project oversight through onsite and electronic means during FFY 2024. They also assisted prospective project partners with the preparation of project proposals and implementation plans. In FFY 2024, staff initiated three contracts obligating \$1,823,500 in federal funds (319, 106, & 604(b)) and processed 35 payment requests for federal funds totaling \$1,575,522.29. Staff also initiated one contract obligating \$200,000 in state funds (Consolidated Water Facilities Construction Program grants and Clean Water State Revolving Fund Program Water Quality grants) and processed 9 payment requests from these sources totaling \$109,600.07.

Project Guidance & Oversight

Watershed Protection Program staff provided project management assistance to project sponsors during all phases of project development, implementation, and evaluation. The project guidance information and other documents are available at:

https://danr.sd.gov/Conservation/WatershedProtection/Section319/Guidance.aspx

Information and Education

Since 2003, the NPS Information and Education (I & E) Program has been outsourced to the South Dakota Discovery Center. The Discovery Center was awarded an initial \$200,000 I&E grant in FFY 2004. During the FFY 2007 through 2024 period, the Discovery Center was awarded an additional \$1,490,700 to continue the I&E program. In FFY 2023, the Discovery Center was awarded \$350,000 (\$250,000 of 319 funds and \$100,000 CWSRF Water Quality Grants) for SD Nonpoint Source Information and Education Project – Segment 7. DANR maintains a close working relationship with the South Dakota Discovery Center to ensure program milestones are met and to ensure that the program is widely advertised.

Information activities share information with the public. Some of these activities are one-time projects such as the media campaign on pet waste or planning for urban watersheds in previous segments. Other ongoing activities include volunteer monitoring, conference support, water festivals, and the minigrants program.

The minigrant process awards small grants to local, regional, and state projects that promote watershed education. Ten to twelve minigrants are awarded typically during each project segment.

Education activities include educator trainings, Project WET, Water Festivals, volunteer water monitoring, and youth and student outreach activities.

Since 1992, South Dakota Water Festivals have delivered a strong water conservation message to an increasing number of fourth graders. More than 4,500 students and 240 teachers are served by 140 volunteers at Water Festivals each year.

Financial and Technical Assistance Provided by Project Partners

While financial and technical assistance received from the Environmental Protection Agency provide the base for the South Dakota NPS Program, the resources available from public and private program partners are integral components of many program activities. Selected partnerships active during the past year are summarized below. For additional information about these and other program partnerships, consult the *South Dakota Watershed Project Funding and Technical Assistance Guide*. An electronic copy of the guide is available by visiting:

https://danr.sd.gov/Conservation/WatershedProtection/docs/319guidance2023.pdf

USDA Natural Resources Conservation Service and Farm Service Agency

The USDA Natural Resources Conservation Service (NRCS) and Farm Service Agency (FSA) are active project partners in nearly all phases of the NPS Program.

Many of our 319 projects leverage NRCS funds with Environmental Quality Incentive Program (EQIP), Conservation Stewardship Program (CSP), Regional Conservation Partnership Program (RCPP) and other programs.

The National Water Quality Initiative (NWQI) was initiated in FFY 2012. The goal is to remove streams and other waterbodies from the State's 303(d) list from threatened status or from contributing to impairments. NWQI will assist producers to address high-priority water resource concerns in small watersheds. The State partnership selected four 12-digit Hydrologic Units in the Skunk Creek watershed, which drains to the Big Sioux River. The significance of this tributary is that it contributes pollutants that affect the city of Sioux Falls' ability to meet water quality standards for the portion of the Big Sioux River that flows through the city. During 2014, an instream monitoring project was initiated to determine progress toward Skunk Creek meeting its assigned beneficial uses, and that progress is still moving forward today. Skunk Creek was delisted for total suspended solids (TSS) from the State's 303(d) list in the 2018 Integrated Report. A nonpoint source pollution Success Story was finalized for Skunk Creek TSS in 2019.

In FFY 2017, DENR (now DANR) and NRCS agreed to discontinue work in two NWQI watersheds in the Skunk Creek watershed and identified three NWQI watersheds in the Firesteel Creek watershed. These watersheds are Storia, West Fork Firesteel Creek, and Lower West Fork Firesteel Creek. Firesteel Creek is a tributary to the James River and is impaired for bacteria and TSS. Instream monitoring on Firesteel Creek began in 2016, and planning and implementation are currently ongoing in the three Firesteel Creek NWQI watersheds.

In FFY 2023, DANR was approached by NRCS to discontinue work in the three watersheds in the Firesteel Creek watershed and recommend future watersheds to implement. Work was started in two HUCs in the Dawson Creek watershed around 2021. So, a third watershed was required. DANR contacted all the watershed coordinators, and it was decided that three HUCs in the South Fork of the Whetstone River in Grant County would be next up for the NWQI program. To this point, NRCS has not implemented the NWQI in the Whetstone River.

US Geologic Survey

The US Geologic Survey (USGS) provides technical assistance to several South Dakota nonpoint source assessment and implementation projects. The USGS also provides water quality and water quantity data to help DANR develop and implement TMDLs. They are also an active participant in planning and conducting the Western South Dakota Hydrology Conference.

US Fish and Wildlife Service

The US Fish and Wildlife Service (USFWS) provides technical and financial assistance to watershed projects for Best Management Practice (BMP) installation. This assistance centers primarily on cost share for practices related to managed grazing systems and wetland habitat development. The main USFWS programs providing funds for BMPs are Partners for Fish and Wildlife Program and North American Wetland Conservation Act. Commonly cost shared BMPs include grass seeding, cross fencing, multiple purpose ponds, and riparian exclusion fencing.

South Dakota Board of Water and Natural Resources Grant Assistance

The Consolidated Water Facilities Construction Program (CWFCP) is administered by the South Dakota Board of Water and Natural Resources (BWNR). The program provides state grants and low-interest loans for projects on the State Water Facilities Plan. NPS structural and construction BMPs, such as animal waste management systems (AWMS) and shoreline stabilization, are eligible for cost share funds through the program. Projects awarded Consolidated Water Facilities Construction Program funds during the reporting period are listed in Table 8.

The BWNR also provides Water Quality grant assistance to watershed projects from the Clean Water State Revolving Fund (CWSRF) administrative surcharge fees. Projects awarded Water Quality grants during the reporting period are listed in Table 8.

Table 8. FFY 2024 State Grants

Project	Funding Source		Grant Award (\$)
Belle Fourche Implementation Project – Segment 10	CWSRF WQ Grant		\$200,000
		Total	\$ 200,000

South Dakota Clean Water State Revolving Fund (NPS Incentive Loan Program)

The South Dakota Board of Water and Natural Resources administers the state's Clean Water State Revolving Fund (CWSRF) loan program. During 2004, the board established a nonpoint source incentive rate for nonpoint source projects. Projects for traditional wastewater or storm water that include a nonpoint source component are eligible for the nonpoint source interest rate. The annual principal and interest payment is calculated for a loan at the current base SRF interest rate of 2 percent for loans with a term of 10 years or less, 2.25 percent for loans with a term of 11 to 20 years, and 2.5 percent for loans with a term greater than 20 years. Using the lower incentive interest rates of 1 percent, 1.25 percent, and 1.5 percent, respectively, a loan is sized using the annual payment previously calculated. The difference in the two loan principal amounts is the amount of funding available for the NPS component of the project.

Since its inception, six NPS project sponsors have accessed NPS incentive program rate financing. In FFY 2024, there were zero CWSRF NPS Incentive Loans awarded. The NPS projects and loan amounts are shown in Table 9.

Table 9. CWSRF NPS Loans

Project	Municipality	SRF Loan
FFY 2005		
Brown County Water Quality Improvement	City of Aberdeen	\$ 1,156,259
Central Big Sioux Watershed -Segment 1	City of Sioux Falls	\$ 4,374,985
FFY 2006		
Upper Big Sioux River Watershed–Segment 4	City of Watertown	\$ 113,985

Firesteel Creek / Lake Mitchell Watershed	City of Mitchell	\$ 148,523
FFY 2011 Central Big Sioux Watershed–Segment 2	City of Sioux Falls	\$ 1,901,014
Belle Fourche River Implementation–Segment 5	BF Irrigation District	\$ 200,000
FFY 2015		
Central Big Sioux Watershed–Segment 3	City of Sioux Falls	\$ 1,839,457
FFY 2016	City of Ciany Falls	¢ 440 000
Central Big Sioux Watershed–Segment 3	City of Sioux Falls	\$ 449,000
FFY 2017 Big Sioux River Watershed	City of Sioux Falls	\$ 559,125
FFY 2018	City of Sloux Falls	\$ 555,125
Big Sioux River Watershed	City of Dell Rapids	\$337,700
South Central Watershed	City of Mitchell	\$682,000
Big Sioux River Watershed	City of Sioux Falls	\$429,000
FFY 2019	City of Mitaball	¢00.7E0
South Central Watershed* South Central Watershed	City of Mitchell City of Mitchell	\$98,750 \$356,000
Big Sioux River Watershed	City of Sioux Falls	\$2,408,800
FFY 2020	City of Sloux Falls	72,400,000
Big Sioux River Watershed	City of Dell Rapids	\$213,500
Firesteel Creek Watershed Restoration**	City of Mitchell	\$311,700
Firesteel Creek Watershed Restoration**	City of Mitchell	\$163,000
Big Sioux River Watershed	City of Sioux Falls	\$457,400
FFY2022		
Big Sioux River Watershed Restoration	City of Dell Rapids	\$259,388
Firesteel Creek Watershed Restoration**	City of Mitchell	\$1,733,374
FFY2023		
Big Sioux River Watershed Improvements	City of Sioux Falls	\$1,240,000

South Dakota Department of Agriculture and Natural Resources Conservation Commission Grant

In fiscal year 2021, the Department of Agriculture and Department of Environment and Natural Resources merged to form one department, the Department of Agriculture and Natural Resources (DANR). The newly formed department will provide state funds to conservation districts for the installation of conservation BMPs through the Conservation Grants Program. During this reporting period, DANR awarded \$500,000 to conservation district projects. Many of these projects include NPS-related activities.

South Dakota Department of Game, Fish, and Parks (GFP)

GFP assistance programs accessed by projects are like those offered by the USFWS and center mainly on managed grazing and wetlands.

The former Department of Agriculture and the GFP worked together to develop the Habitat Pays website. The Habitat Pays website focuses on compiling habitat and conservation funding programs and assistance from federal and state agencies. The information is easily accessible to South Dakota landowners and the public with interest in creating wildlife habitat and improving water quality.

For a description of the programs and practices cost shared visit:

https://habitat.sd.gov/

319 Grant Match

Nonfederal match of 40 percent of project expenditures is required for Section 319 grants. South Dakota takes a conservative approach to approving nonfederal match submitted by its project partners. As much of the match comes from the construction and implementation of BMPs, a large proportion of the match requirement for many projects is documented during the later phases of a project. See Appendix E for a summary of nonfederal match documented for each of the department's 319 grants.

Water Quality Improvements

The South Dakota NPS Program considers quantification of load reductions and resultant water quality improvements essential to evaluating project goal attainment and reaching the TMDLs established for priority waterbodies. The quantification process uses a combination of modeling and water quality sample results. In FFY 2007, DANR adopted STEPL as the primary load reduction estimation model for reporting annual and cumulative load reductions in GRTS. DANR will transition to using the Pollutant Load Estimation Tool (PLET) model to calculate load reductions in FFY2024.

Annual load reductions/water quality improvements documented are entered in GRTS. Load reductions for waterbodies located in project areas during FFY 2024 were 137,925 pounds of nitrogen, 34,122 pounds of phosphorous and 19,194 tons of sediment.

Table 10. STEPL Load Reductions for Projects during FFY 2024

Project Name	Nitrogen (Ibs. per year)	Phosphorus (lbs. per year)	Sediment (tons per year)
Belle Fourche River Watershed Implementation-Segment 10	3,589	3,156	5,029
Big Sioux River Watershed Implementation-Segment 4	1,939	358	164
Soil Health Improvement & Planning Project-Segment 3	45,424	13,656	12,584
South Central Watershed Implementation-Segment 2	86,973	16,952	1,417
SD NPS Information & Education Project-Segment 7	0	0	0
Totals	137,925	34,122	19,194

Appendix A

Open NPS Projects Funded by Previous Section 319 Grants by River Basin

River Basin	Project
Bad River	None
Belle Fourche River	Belle Fourche River Watershed Management-Segment 10
Big Sioux River	Big Sioux River Watershed Implementation-Segment 4
	Prairie Coteau Watershed Improvement and Protection-Segment 1
Cheyenne River	None
Grand River	None
James River	South Central Watershed Implementation Project-Segment 2
	Prairie Coteau Watershed Improvement and Protection-Segment 1
Minnesota River	Prairie Coteau Watershed Improvement and Protection-Segment 1
Missouri River	South Central Watershed Implementation Project-Segment 2
Red River	None
Vermillion River	South Central Watershed Implementation Project-Segment 2
White River	None
Statewide / Regional Projects	SD NPS Information & Education Partnership-Segment 7
	Soil Health Management and Planning-Segment 3

Appendix B

Completed Section 319 Projects by River Basin

River Basin	Project
Bad River	Bad River Water Quality Project-Phase II
	Bad River Water Quality Project-Phase III
	Hayes and Waggoner Lakes TMDL
	Upper Bad River Demonstration
Belle Fourche River	Bear Butte Creek Riparian Demonstration
	Belle Fourche River Assessment
	Belle Fourche River Watershed Management Plan-Segments 1, 2, 3, 4, 5, 6, 7,
	8, & 9
Big Sioux River	Bachelor Creek Assessment
	Bachelor Creek Hydrologic Unit
	Big Sioux Bank Stability
	Big Sioux TMDL Through Sioux Falls
	Big Sioux Well Head Protection
	Blue Dog Lake Assessment
	Blue Dog Lake Watershed Improvement
	Central Big Sioux River Implementation-Segment 1, 2, & 3
	Central Big Sioux River (Interim) Project
	Deuel County Lakes Implementation
	Enemy Swim Lake Implementation
	Lake Campbell Watershed Restoration
	Lakes Cochrane/Oliver Watershed Improvement
	Lakes Herman/Madison/Brant Implementation
	Lake Kampeska Watershed
	Lake Norden/Lake Albert/Lake St. John Assessment
	Lake Poinsett Watershed-Segment 1 & 2
	Lower Big Sioux River Implementation-Segment 1 & 2
	Northeast Glacial Lakes-Segment 1, 2, 3, 4, & 5
	Pickerel Lake Protection
	Roy Lake Assessment
	Upper Big Sioux River Watershed-Segments 1, 2, 3, 4, 5, 6, & 7
	Wall Lake Watershed Project
	Wall Lake Post-Project Assessment
Cheyenne River	Whitewood Creek- Bear Butte Creek Temperature TMDL-Phase 2
,	Cheyenne River Phase I TMDL Assessment
	Foster Creek Riparian Demonstration - Stanley Co.
	Lower Cheyenne River TMDL Assessment-Phase I
	Lower Cheyenne River TMDL Assessment 2
	Piedmont Valley Assessment
	Rapid City Storm Water
	Spring Creek Implementation-Segment 1, 2, & 3
Grand River	Shadehill Lake Protection Staffing & Support
James River	Brown County Implementation-Segment 2
	Clear Lake Assessment - Marshall Co.
	Cottonwood & Louise TMDL
	Elm Lake Implementation Project
	Firesteel Creek/Lake Mitchell Watershed Project-Segments 1 & 2

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	Jones Lake/Rose Hill Lake TMDL
	Jones Lake/Rose Hill Lake Watershed Implementation
	Lake Byron Watershed
	Lakes Cottonwood and Louis Implementation
	Lake Faulkton Watershed Implementation
	Lake Hanson/Pierre Creek Implementation
	Lake Mitchell Watershed Assessment
	Lake Redfield Restoration
	Lower James River Assessment
	Lower James River Implementation-Segment 1, 2, & 3
	Loyalton and Cresbard Lakes TMDL
	Mina Lake Water Quality Assessment
	Moccasin Creek TMDL
	Ravine Lake Watershed
	Richmond Lake Watershed
	Richmond Lake Assessment
	South Central Watershed Implementation Project-Segment 1
	Twin Lakes/Wilmarth Lake Assessment
	Upper James River Assessment
	Upper Snake Creek Implementation-Segment 1
	White Lake Dam TMDL
Missouri River	Burke Lake Assessment
	Burke Lake Restoration
	Lewis and Clark Implementation-Segment 1, 2, 3 & 4
	Medicine Creek Assessment
	Medicine Creek Watershed Project-Segment 1
	Okobojo Creek Watershed Assessment
	Pocasse/Campbell Watershed Assessment
	South Central Lakes Watershed Assessment
	South Central Watershed Implementation Project-Segment 1
	Spring Creek Implementation (Campbell Co.)-Segment 1
Red River	Lake Traverse Watershed Assessment
Vermillion River	Kingsbury County Lakes Assessment
	Kingsbury Lakes Implementation
	South Central Watershed Implementation Project-Segment 1
	Swan Lake Restoration
	Turkey Ridge Creek Implementation-Segment 1
	Vermillion River Basin Assessment
	Vermillion River Basin Implementation-Segment 1 & 2
White River	White River Phase I Assessment
	Little White River TMDL Assessment
Statewide/Regional Projects	303(d) Watershed Planning & Assistance-Segment 1, 2 & 3
- Clarettide, negional i Tojecto	Abandoned Well Sealing
	Animal Waste Management 1 & 2
	Animal Nutrient Management Team 3 & 4
	Animal Waste Team (Buffer salesmen)
	Bacteria in Sediment SDSU Project
	Black Hills Stream Temperature Assessment
	Bootstraps
	Buffer Planning and Assistance
	Coordinated Resource Management 1& 2
	East River Area Riparian Demonstration 1 & 2
	·
	East River Riparian Grazing I

Evaluating Phosphorus Loss on a Watershed

Evaluating Vegetative Treatment Areas

Grassland Management and Planning-Segment 1, 2, 3, 4 & 5

Ground Water Monitoring Network

Manure Management Based on Soil Phosphorus

Manure Management Based on Soil Phosphorus - Additional Soils

Nitrogen & Pesticides in Ground Water

Nonpoint Source Information & Education 1989

Nonpoint Source Information & Education 1994

Nonpoint Source Information & Education 1996

Nonpoint Source Information & Education 1998

Nonpoint Source Information & Education - Segment 1, 2, 3, 4, 5, & 6

Precision Manure Management to Improve WQ

Rainfall Simulator

Reference Site Validation & Biomonitoring

Riparian Area Restoration & Protection-Segment 1

Riparian Grazing Workshop

Soil Health Improvement and Planning Project-Segment 1 & 2

South Dakota Association of Conservation Districts

South Dakota Lake Protection

Statewide Lake Assessment

Water Quality Impacts of Winter Manure Spreading

Water Quality Planning Project

Wetlands Education Project

Appendix C

Completed Section 604(b) Projects by River Basin

Bad River Basin	Bad River Phase IA
	Bad River Phase IB
Belle Fourche River Basin	Belle Fourche River TMDL Project
	Streambank Erosion Assessment - Upper Whitewood Creek
	Whitewood Creek Streambank Assessment Project
	Whitewood Creek Watershed Project Planning
	Whitewood Creek Bacterial Source Tracking
	Whitewood/Bear Butte Creek Temperature TMDL-Phase 1
	Whitewood/Bear Butte Creek Temperature TMDL-Phase 2
Big Sioux River Basin	Bacterial Source Tracking and Lower Big Sioux TMDL
	Big Sioux Aquifer Protection Project
	Big Sioux Aquifer Study
	Big Sioux River Bank Stabilization Demonstration Project
	Big Sioux River Riparian Assessment (Moody/Minnehaha)
	Brookings Area TMDL Sampling Project
	Covell Lake TMDL (Combined with Sioux Falls Big Sioux River TMDL Project)
	Eastern South Dakota Lakes Assessment
	Pelican Lake Control Structure Feasibility
	Lake Alvin/Nine Mile Creek TMDL
	Lake Campbell TMDL Assessment
	Lakes Herman, Madison, Brandt Project Planning
	Lake Poinsett Project Planning and Design
	North Central Big Sioux/Oakwood Lake TMDL
	Rotating Basins Project
	Sioux Falls – Big Sioux River TMDLs
	Skunk Creek – National Water Quality Initiative
	Upper Big Sioux Watershed AGNPS
Cheyenne River Basin	Develop NPS BMPs Western Pennington Co. Drainage District
	French Creek Assessment
	Galena Fire Project
	Rapid Creek and Aquifer Assessment Project
	Rapid Creek NPS Assessment Project
	Rapid Creek Stormwater Impact Prioritization
	Custer State Parks Lakes Assess. Report Preparation
	Spring Creek Bacterial Source Tracking
Grand River Basin	Grand River Watershed TMDL
James River Basin	Broadland Creek Watershed Study
James River Dasin	Central South Dakota Water Quality Monitoring Project
	Eastern South Dakota Lakes Assessment
	Firesteel Creek/Lake Mitchell WQ Needs Assessment
	James River TMDL Project
	Landowner Survey
	Lake Faulkton Assessment Project
	-
	Lake Louise Water Quality Monitoring
	Mina Lake Water Quality Project
	Ravine Lake Diagnostic/Feasibility Study
	Turtle Creek/Lake Redfield Landowner Survey
	Wylie Pond/Moccasin Creek Watershed TMDL

Minnesota River Basin	Blue Dog Lake/Enemy Swim Septic Leachate Survey
	Fish Lake Water Level and Quality Study
	Lake Cochrane/Oliver TMDL
	Lake Hendricks Restoration Assessment
	Lake Traverse/Little Minnesota River Land Inventory
	Rotating Basins Project
Missouri River Basin	Burke Lake Diagnostic/Feasibility Study
	Central South Dakota Lakes Assessment
	Lake Andes Watershed Treatment Project
	Lake Pocasse/Lake Campbell/Spring Creek TMDL
	Lewis and Clark TMDL Project
	Platte Lake Planning
	Randall RC&D Implementation Planning
Vermillion River Basin	Turkey Ridge Creek Watershed Assessment Project
	Turner County Conservation District – West Vermillion River Sampling
	Vermillion River Basin Watershed Planning
	West Yankton Sanitary Sewer Survey
White River Basin	White River Preservation Project
	White River Watershed Data Collection Project
	White River/Little White River TMDL Project
Statewide	Bacterial Source Typing: Sample Preparation and Analysis Project
	Black Hills & Eastern SD Taxonomic analyses of 2007 & 2008 samples
	Black Hills Biological Sampling - 2006 samples
	Black Hills Biological Sampling - 2007 samples
	Black Hills Biological Sampling - 2008 samples
	Black Hills Biological Sampling - 2009 and 2010 samples
	Black Hills Stream Temperature TMDL Project
	Chemical Containment
	Demonstrate Slash Pile Use Control Erosion on Fragile Soils
	Detention Cell Demonstration Project
	Digitize Soils Maps for South Dakota
	East River Riparian Demonstration Project
	Forestry BMP Pamphlet
	Groundwater Protection Project
	Livestock Waste Management Handbook
	Local WQ Planning Through Hydrologic Unit Planning
	North Central RC&D HU Implementation
	Pesticide and Fertilizer Groundwater Study
	Pesticide and Nitrogen Program
	Riparian Area Forestry Project
	Statewide Lake Surveys 2011 - 2012
	Statewide Mercury TMDL Project
	Stock growers Speaker
	Taxonomic Identification & Enumeration of Biological Samples
	Terry Redlin Institute Wetlands Education Project
	Water Quality Planning Project
	Water Quality Study of SD Glacial Lakes and Wetlands
	Wetland Assessment for the Nonpoint Source Program
	SDSU Cropland Planning for Water Quality Improvement
	1 2 2 2 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

Appendix D

Completed Section 106 Projects

Project

Center Lake Report Writing

Cottonwood Creek Watershed TMDL Assessment

DENR Monitoring Supplies and Equipment

DENR National Rivers and Streams Evaluation & Reference Sites

DENR Stream Reference Site Development

Digital Line Graphs

Digitized SD Soil Survey

East Dakota WDD Water Quality Monitoring

Equipment for Lower Big Sioux and Spring Creek Assessment

EPA In-Kind for Lab Services

EPA National Lakes Assessment (NLA)

Fish Lake/Lake Alice Assessment

Gauging Equipment

Gauging Stations

Lake Hanson Assessment Project

Lewis and Clark Watershed Assessment

Lower Cheyenne River TMDL Assessment-Phase I

Lower James River TMDL Assessment

Mercury Sampling

Missouri River Monitoring

Northern Glaciated Plains Ref. Site Validation & Bio Toolkit

Northwest Great Plains Reference Site Development

Remote Sensing - AGNPS Crop Layers

Rotating Basins Project—Big Sioux/Red/Minnesota River Basins

Rotating Basins Project - Black Hills Basins

School - Bullhead Watershed Assessment - TMDL

Sediment Diatom Analysis

Sediment Diatom Dating through Radiochemistry

Selection and & Validation of Stream Reference Sites

Spring Creek/Sheridan Lake Assessment

Stage/Discharge Relationship Development

Statewide Lakes Assessment

Statewide Aquatic Macroinvertebrate Collection and Database (Specify)

Statistics Training Course

Upper Cheyenne River TMDL

Upper Rapid Creek Assessment

Use Attainability Assessments

USGS Gage Station Water Use Agreements

Appendix E

319 Matching Funds +As of 06/30/24 *As of 09/30/24

313 Matching Fullus			TAS 01 00/30/24	A3 01 03/30/24	
Grant	Grant Award (\$)	Total Match	Expenditures	Match Required	Match
		Required (\$)	thru 9/30/23(\$)	Against Expenditures (\$)	Documented (\$)
319 Implementation 89	1,594,000	1,062,667	1,594,000	1,062,667	1,315,016
319 Implementation 90	800,137	885,994	800,137	885,994	885,994
319 Implementation 91	655,851	437,234	655,797	437,198	437,199
319 Implementation 92	795,000	530,000	794,836	529,891	535,421
319 Implementation 93	1,090,839	727,227	1,090,839	727,227	779,175
319 Implementation 94	1,415,142	943,508	1,415,142	943,508	1,188,561
319 Implementation 95	1,699,669	1,133,119	1,699,669	1,133,119	1,154,183
319 Implementation 96	1,126,685	751,123	1,126,685	751,123	787,159
319 Implementation 97	1,253,790	835,902	1,253,790	835,902	1,484,877
319 Implementation 98	1,296,790	864,531	1,296,790	864,531	860,355
319 Implementation 99	2,791,400	1,860,933	2,791,400	1,860,933	1,861,025
319 Implementation 00	3,008,897	2,005,931	3,008,897	2,005,931	2,005,931
319 Implementation 01	3,267,900	2,178,600	3,267,900	2,178,600	2,356,825
319 Implementation 02	3,142,900	2,095,268	3,142,900	2,095,268	2,095,268
319 Implementation 03	3,215,964	2,143,976	3,215,964	2,143,976	2,143,976
319 Implementation 04	3,090,200	2,060,133	3,090,200	2,060,133	2,060,769
319 Implementation 05	2,651,624	1,767,750	2,651,624	1,767,750	1,767,750
319 Implementation 06	2,583,000	1,722,000	2,583,000	1,722,000	1,722,000
319 Implementation 07	2,470,700	1,647,133	2,470,700	1,647,133	1,678,147
319 Imp / Admin 08	3,160,100	2,106,733	3,160,100	2,106,733	2,106,733
319 Imp / Admin 09	3,160,100	2,106,733	3,160,100	2,106,733	2,106,733
319 Imp / Admin 10	3,160,100	2,106,733	3,160,100	2,106,733	2,106,733
319 Imp / Admin 11	2,744,000	1,829,333	2,744,000	1,829,333	1,829,333
319 Imp / Admin 12	2,564,000	1,709,333	2,564,000	1,709,333	1,709,333
319 Imp / Admin 13	2,431,000	1,620,667	2,431,000	1,620,667	1,620,667
319 Imp / Admin 14	2,487,000	1,658,000	2,487,000	1,658,000	1,658,000
319 Imp / Admin 15	2,460,800	1,640,533	2,460,800	1,640,533	1,640,533
319 Imp / Admin 16	2,544,000	1,696,000	2,544,000	1,696,000	1,696,000
319 Imp / Admin 17	2,631,000	1,754,000	2,631,000	1,754,000	1,754,000
319 Imp / Admin 18	2,600,000	1,733,333	2,600,000	1,733,333	1,733,333

Total	84,059,588	56,392,428	77,231,881	51,840,623	54,165,866
319 Imp/ Admin 24*	2,644,000	1,762,667	0	0	0
319 Imp/ Admin 23*	2,756,000	1,837,333	437,503	291,669	411,056
319 Imp/ Admin 22*	2,755,000	1,836,667	1,484,408	989,605	1,694,878
319 Imp/ Admin 21*	2,755,000	1,836,667	2,607,599	1,738,400	1,836,679
319 Imp/ Admin 20*	2,683,000	1,788,667	2,236,001	1,490,667	1,426,212
319 Imp / Admin 19+	2,574,000	1,716,000	2,574,000	1,716,000	1,716,012

Appendix F

	COUTH DAYOTA NONDOINT CO	IDOE BROOK	FOO DEDODE				
	SOUTH DAKOTA NONPOINT SOI C9-99818		ESS REPORT				
	October 1, 2019 – Sep		20				
	Cooperative Agree	ement Details					
Cooperative Agreements CO 00949540							
Cooperative Agreement: C9-99818519 Date of Award: July 1, 2019							
Expiration Date: July 14, 2024							
EPA Pass Thru Amount: \$1,830,000							
EPA Total: \$2,574,000							
Summary							
	ough the FY2019 Cooperative Agreement (Table 1). One of the eight			in program funds	and eight of the e	eight projects received \$1,287,000	in project
funding. The South Dakota Department of Environment	ent and Natural Recourses (DENR) is using \$744,000 of the program	funding for staff	and support.				
Table 1. Summary of Section 319 projects appro	ved for funding through the FY19 Cooperative Agreement.						
Table 1. Cammary of Coulon Cite projects appro	Tod for failuring alreagn and 1 1 to occupation of the control of						
							Contract Balance Remaining on
							Expenditure Reports
		Master Grant	Program	Project	Total	Status	
	Staff & Technical Support	FY19	\$744,000.00		\$744,000.00		\$ -
	Belle Fourche River Watershed Project Seg 9 (NEW)	FY19	\$543,000.00	\$273,000.00	\$816,000.00	Completed final report approved	\$ -
	Northeast Glacial Lakes Watershed Project Seg 4 (Amendment)	FY17		\$114,483.71	\$114,483.71	Completed final report approved	
	SD Nonpoint Source I&E Project Seg 5 (Amendment)	FY17		\$0.00	\$0.00	Completed final report approved	
	South Central Watershed Project Seg 1 (Amendment)	FY16		\$141,000.00	\$141,000.00	Completed final report approved	
	Soil Health Improvement & Planning Project (Amendment)	FY17		\$19,596.19	\$19,596.19	Completed final report approved	
	Grassland Management & Planning Project Seg 5 (Amendment)	FY17		\$58,306.36	\$58,306.36	Completed final report approved	
	Big Sioux River Watershed Project Seg 3 (Amendment)	FY15		\$0.00	\$0.00	Completed final report approved	
	Upper Big Sioux River Implementation Project Seg 7 (Amendment)	FY16		\$1,721.25	\$1,721.25	Completed final report approved	
	Northeast Glacial Lakes Watershed Project Seg 5 (Amendment)	FY21		\$36,984.30	\$36,984.30	Completed final report approved	
	Soil Health Improvement & Planning Project Seg 2 (Amendment)	FY20		\$109,231.46	\$109,231.46	Completed final report approved	\$ -
	South Central Watershed Project Seg 2	FY21		\$180,056.04	\$180,056.04	Completed final report approved	
	Belle Fourche River Watershed Project Seg 10	FY22		\$352,620.69	\$352,620.69	Complete	\$ -
	Unobligated / Available				\$0.00		\$ -
	Total		64 007 000 00	64 007 000 00	60 574 000 00		ς .
	Pass Thru Grants Total		\$1,287,000.00	\$1,287,000.00 \$1,287,000.00			\$ -
	Remaining to be Spent as of 7/1/24:\$0.00		\$545,000.00	\$1,267,000.00	\$1,030,000.00		
	* Original FY19 Projects						
	Original 1131 Tojects						
Table 2. Projects Added for 319 Funding and Pro	piects Reduced 319 Funding FY2019 Grant						
	•						
Projects Added			Program	Project	Total		
Add \$450,000 to unobligated from Big Sioux River S	egment 3			\$450,000.00			
Add \$5,403.81 to unobligated from Soil Health				\$5,403.81			
Add \$29,000 to unobligated from SD Nonpoint Source				\$29,000.00			
Add \$10,693.64 to unobligated from Grassland Mana				\$10,693.64			
Add \$135,516.29 to unobligated from Northeast Glad				\$135,516.29			
Add \$48278.75 to Northeast Glacial Lakes Seg 5 fro				\$48,278.75			
Add \$150,000 to Soil Health Segment 2 from unoblig				\$150,000.00			
Add \$300,000 to Belle Fourche Segment 10 from un				\$300,000.00			
Add \$11,294.45 to unobligated from Northeast Glacia				\$11,294.45			
Add \$40,768.54 to unobligated from Soil Health Seg				\$40,768.54			
Add \$180,056.04 to South Central Seg 2 from unobli				\$180,056.04			
Add \$52620.69 to Belle Fourche Seg 10 from unoblin	yaicu			\$52,620.69 \$1,413,632.21	-		
Projects reduced				ψ1,413,032.21			
Reduce \$450,000 from Big Sioux River Segment 3 to	o unobligated			(\$450,000.00)			
Reduce \$5,403.81 from Soil Health to unobligated				(\$5,403.81)			
Reduce \$29,000 from SD Nonpoint Source I&E Segi	ment 5 to unobligated			(\$29,000.00)			
Reduce \$10,693.64 from Grassland Management an				(\$10,693.64)			
Reduce \$135,516.29 from Northeast Glacial Segment				(\$135,516.29)			
Reduce \$48278.75 from Upper Big Sioux Seg 7 to N				(\$48,278.75)			
Reduce \$150,000 from unobligated to Soil Health Se				(\$150,000.00)			
Reduce \$300,000 from unobligated to Belle Fourche				(\$300,000.00)			
Reduce \$11,294.45 from Northeast Glacial Seg 5 to	unobligated			(\$11,294.45)			
Reduce \$40,768.54 from Soil Health Seg 2 to unoblig				(\$40,768.54)			
Reduce \$180,056.04 from unobligated to South Cen-				(\$180,056.04)			
Reduce \$52620.69 from unobligated to Belle Fourch			(\$52,620.69)				