

NONPOINT SOURCE 319(h) PROJECT PROGRESS REPORT FORM

Version 1.5

Federal Fiscal Year of project: TODAY'S DATE:

HAS THE WORKPLAN BEEN AMENDED SINCE THE LAST GRTS REPORT?: Yes No

Please select which reporting period.

MIDYEAR REPORT?:

ANNUAL REPORT?:

QUARTERLY REPORT?:

PROJECT TITLE:

REPORT DATES: FROM: TO:

STATE NAME:

ADDRESS:

ADDRESS:

CITY: STATE: ZIP:

PHONE: EXT:

FAX: EMAIL:

PREPARED BY:

MILESTONES COMPLETED

NOTE: To add text TAB to the shaded area and type or cut/paste text. You may type or cut/paste as much text as you like. The box will expand.

BMP	Unit	Total Expected	Total Implemented
Information and Education	Watershed Meetings	8	7
Information and Education	Workshops	2	2
Irrigation Water Management	ft Lining and Pipeline	2,500	6,718
Irrigation Water Management	ft of Pipeline Improvements	25,000	21,813
Irrigation Water Management	Sprinkler Systems	18	16
Riparian Restoration	Acres	500	650
Water-Quality Management	None Defined	0	0

OVERALL PROJECT ACCOMPLISHMENTS

The Belle Fourche River Watershed Management and Project Implementation Plan Segment IV Amendment are on task and on budget. The emphasis in Segment IV concentrated on producer irrigation

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implementation projects, canal and lateral lining, riparian improvement, public outreach, and grant writing for future projects involving water quality in the Belle Fourche River Watershed.

Progress was made to achieve all the task goals in the Segment IV Project Implementation Plan (PIP). The Belle Fourche River Watershed Partnership (BFRWP) continued to work with farm producers on irrigation improvement practices. Currently, 23 projects were approved by the Board and are either in progress or complete. The Belle Fourche Irrigation District (BFID) continued to line and pipe open canals and laterals and will be completing three stage-control automation units funded in this segment. The canal lining and installation of pipeline projects will reduce the water lost to seepage during transport, and automated units will reduce the amount of nonused water in the system.

The BFRWP funded four riparian improvement practices in the watershed that are on schedule to be complete by spring 2011.

The BFRWP was actively involved in information and education activities in the watershed during this funding segment. Activities within the last year include a producer focused range monitoring school, watershed tours, educational radio advertisements, maintenance of the website, public outreach booths, and several soil-quality demonstrations using the BFRWP's soil-quality trailer. Grant writing efforts were successful in securing South Dakota Conservation Commission funds for a water loss study of the Redwater irrigation delivery system. Results from this study will be used in an attempt to secure funds to line or pipe a portion of the delivery system to reduce water loss from seepage. The delivery system is a diversion of the Redwater River—a tremendous source of clean water for the Belle Fourche River. Ultimately, an improved delivery system will reduce the amount of water loss and increase the amount of clean water reaching the Belle Fourche River.

The Whitewood Creek Total Maximum Daily Load (TMDL) summary was submitted and is under review, and ongoing efforts continue to monitor water quality to assess Best Management Practices (BMPs).

Table 1 outlines the funds budgeted, used, and remaining in the Segment IV Amendment.

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Table 1. Funds Budgeted, Used, and Remaining in the Segment IV Amendment

Project Description	Consultants (\$)	USGS (\$)	Producer (\$)	BFID (\$)	Butte Conservation District (\$)	BFRWP (\$)	Totals (\$)	Funds Used or Obligated	Funds Remaining
Objective 1. Implement BMPs Recommended in the Belle Fourche River Watershed TMDL									
Task 1. Reduce Nonused Water									
Product 1. Improved Irrigation Water Delivery and Application									
1a. Line and Pipe Open Canals and Laterals									
1b. Install 18 Sprinkler Systems			605,000				605,000	455,000	150,000
1c. Install 3 Stage Control Automation Units				50,000			50,000	0	50,000
Task 2. Riparian Area BMP Implementation									
Product 2. Implement Riparian BMPs			50,000				50,000	46,218	3,782
Objective 2. Conduct Public Outreach and Education, Implementation Record Keeping, Report Writing, Writing Future Grants, and Federal Audit									
Task 3. Project Management									
Product 3. Public Outreach, and Education Implementation Record Keeping, Report and Future Grant Writing, and Federal Audit	487,650				20,000	20,000	527,650	306,500	221,150
Objective 3. Complete Essential Water-Quality Monitoring and TMDL Development									
Task 4. Whitewood Creek Fecal Coliform TMDL Summaries									
Product 4. Whitewood Creek Fecal Coliform TMDL Summary	13,500						13,500		13,500
Task 5. Water-Quality Monitoring to Assess BMPs									
Product 5. Compile Water-Quality Monitoring Data	15,375	34,625					50,000	34,625	15,375
Total	516,525	34,625	655,000	50,000	20,000	20,000	1,296,150	842,343	453,807

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OBJECTIVES/TASKS ACCOMPLISHMENTS

Objective 1. Implement Best Management Practices Recommended in the Belle Fourche River Watershed Total Maximum Daily Load

Task 1. Reduce Nonused Water

Product 1a. Line and Pipe Open Canals and Laterals. The BFID was funded by the Bureau of Reclamation to line an additional 5,280 feet of the inlet canal. Originally, it was planned to complete the 5,280 feet of inlet canal lining in fall 2009 and 2010. Weather precluded the BFID from completing this project on schedule. Approximately 2,640 feet will be completed in the fall 2010 as part of Segment IV and the other 2,640 feet will be completed in the fall of 2011 as part of Segment V. Water-loss savings from canals and laterals increase the overall water in the system. The canal lining and installation of pipeline projects will reduce the water lost to seepage during transport.

Product 1b. Install 18 Sprinkler Systems. The BFRWP board approved 23 farm producers for irrigation improvement practices. Currently, 13 of these projects are complete and 10 more are in progress. These projects include 16 center pivot projects and approximately 22,000 feet of pipeline for improved irrigation application in the watershed. The BFRWP will have an early spring 2011 funding round to invest the remaining funds for improved irrigation application projects.

Product 1c. Install Three Stage Control Automation Units. The BFID is making progress toward automating an additional three stage-control units. This project is expected to be complete in spring 2011.

Task 2. Riparian Area Best Management Practice Implementation

Product 2. Implement Riparian Best Management Practices. The BFRWP board approved four producer projects to improved riparian areas on the Belle Fourche River and major tributaries. These projects include two dike repair projects and two projects to control access of livestock to stream areas by fencing and water development. These projects are all in progress and will be complete in the spring of 2011.

Objective 2. Conduct Public Outreach Program, Monitor Water Quality, and Write Reports

Task 3. Project Management

Product 3. Conduct Public Outreach and Education, Implementation Record Keeping, Report Writing, and Writing Future Grants. The BFRWP was actively involved in information and education activities in the watershed during this funding segment. Activities within this project segment included assisting with two producer-focused range and riparian school educating ranchers, land managers, and agency employees on proper grazing practices on riparian areas; sponsoring South Dakota Range Camp for high school-age students; conducting over 25 soil-quality demonstrations using the soil-quality trailer; and conducting or sponsoring seven watershed tours. The watershed tours included two tours showcasing improvements made in the BFID, one tour showcasing two area ranchers nominated for the Society for Range Management's Excellence in Grazing Management award, one tour for the South Dakota Association of Conservation Districts annual meeting, one tour for the Natural Resources Conservation Service's American Indian and Native Alaskan Employee Association, an Ag Lenders Range Camp tour, and a sponsorship of the Elk Creek Conservation District project tour. In addition, four information booths were present at the conferences and farm/home shows in the area. The BFRWP's website <www.bellefourchewatershed.org> was updated in June 2009 and since then has received over 1,000 visits from 23 different countries and 46 states. Several radio advertisements were broadcasted in

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an attempt to draw people to the new website. The BFRWP also held seven public meetings to discuss BFRWP business and update stakeholders.

Grant writing efforts were successful in securing South Dakota Conservation Commission funds for a water loss study of the Redwater irrigation delivery system. Results from this study will be used in an attempt to secure funds to line or pipe a portion of the delivery system to reduce water loss from seepage. The delivery system is a diversion of the Redwater River which is a tremendous source of clean water for the Belle Fourche River. Ultimately, an improved delivery system will reduce the amount of water loss and increase the amount of clean water reaching the Belle Fourche River.

Objective 3. Complete Essential Water-Quality Monitoring and Total Maximum Daily Load Development

Task 4. Whitewood Creek Fecal Coliform Total Maximum Daily Load Summaries

Product 4. Whitewood Creek Fecal Coliform Total Maximum Daily Load Summary. The Whitewood Creek fecal coliform TMDL study is currently under review and will be complete by the spring of 2011.

Task 5. Water-Quality Monitoring to Assess Best Management Practices

Product 5. Compile Water-Quality Monitoring Data. This is an ongoing task in the Belle Fourche River Watershed. The task is on schedule and within the budget.

The overall project is on schedule and on budget.

Table 2. Load Reductions (Tons/Year) by Impaired Waterbody

Segment IV	Pollution Reduction Target (Overall TMDL Goal)	Pollution Reduction Target (This Project Segment)	Current Year Pollution Reduction Achieved	Cumulative Pollutant Reductions Achieved (This Project Segment)
Belle Fourche River, Alkali Creek to Mouth	289,910	7,693	9,880	21,376
Belle Fourche River, Wyoming Border to Near Fruitdale	3,362	27	83	83
Belle Fourche River, Horse Creek to Confluence	2,033	141	113	380

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RSI-1870-10-006



Figure 1. Agriculture Lenders Range Camp in June 2010. Tour is highlighting accomplishments of the Belle Frouche River Watershed.

RSI-1870-10-007



Figure 2. Soil Quality Demonstration at the Elk Creek Conservation District Tour in September 2010.

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RSI-1870-10-008



Figure 3. Demonstration of Off-Stream Water Development at the Elk Creek Conservation District Tour in September 2010.

RSI-1870-10-009



Figure 4. Producer Focused Range Monitoring School Sponsored by the Belle Fourche River Watershed Partnership and the Butte/Lawrence Natural Resources Conservation Service in September 2010.

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RSI-1870-10-010



Figure 5. Irrigation System in the Belle Fourche Irrigation District Partially Funded With U.S. Environmental Protection Agency 319 Dollars.

RSI-1870-10-011



Figure 6. Livestock Water Development for Improved Grazing Funded by Belle Fourche River Watershed Partnership Cooperative Conservation Partnership Initiative Grant.

RSI-1870-10-012



Figure 7. Poster Used for the Informational Booths Sponsored by the Belle Fourche River Watershed Partnership.

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CONCLUSIONS

Please select the pollutant, and then enter the numerical amount, units, and whether it is a TMDL related pollutant. Click in gray areas for dropdown list.
NOTE: If Nitrogen and/or Phosphorus are chosen, units must be lbs/yr. If Sedimentation is chosen, units must be in tons/yr.

<u>Pollutant Type *</u>	<u>Pollutant Reduction Target</u>	<u>Current Year Pollutant Reduction</u>	<u>Cumulative Pollutant Reduction Achieved (Numerical)</u>	<u>Units</u>	<u>TMDL yes/no</u>
POLLUTANTS:					
ADDITIONAL POLLUTANTS:					
SUSPENDED SOLIDS	7,693	9,880	21,376	Tons	YES

Wetlands/Streambanks/Shorelines
 Please select the appropriate item as it relates to the project or task. For this reporting period there should be an actual (when available) positive numerical value for each selection

Wetlands Restored
 Wetlands Created
 Streambank and Shoreline Protection
 Stream Channel Stabilization

Description	Current Year	Cumulative Total	Units
Wetlands Restored			Acres
Wetlands Created			Acres
Streambank and Shoreline Protection			Feet
Stream Cannel Stabilization			Feet