



Grant All-Detail Report 2013 - Clean Water Assistance Grant

Grant Title - 2013 - Clean Water Assistance Grant - Crow Wing (SWCD)

Grant ID - C13-0354

Organization - Crow Wing SWCD

Grant Awarded Amount	\$329,750.00	Grant Execution Date	
Required Match Amount	\$82,437.50	Grant End Date	1/1/2020
Required Match %	25%	Grant Day To Day Contact	Melissa Barrick

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$329,750.00	\$329,750.00	\$0.00
Total Match Amount	\$100,022.33	\$100,022.33	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$429,772.33	\$429,772.33	\$0.00

**Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Match
2013 Curb Cut Raingarden/Bioretenion	Urban Stormwater Management Practices	Current State Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)	\$115,750.00	\$115,757.36	11/9/2016	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Match
2013 Curb Cut Raingarden/Bioretenion	Urban Stormwater Management Practices	Landowner Fund	2013 Landowner Contribution CWF	\$4,800.00	\$4,800.00	10/19/2016	Y
2013 Curb Cut Raingarden/Bioretenion	Urban Stormwater Management Practices	Local Fund	Master Gardeners	\$1,250.00	\$1,250.00	10/15/2014	Y
2013 Grant mgmnt and reporting CWF	Administration /Coordination	Current State Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)	\$21,000.00	\$21,012.71	10/19/2016	N
2013 Project Development CWF	Project Development	Current State Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)	\$31,000.00	\$31,000.00	5/16/2016	N
2013 Technical Assistance and Engineering CWF	Technical/Engineering Assistance	Current State Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)	\$50,900.00	\$50,900.00	5/31/2016	N
2013 Technical Assistance and Engineering CWF	Technical/Engineering Assistance	Local Fund	2013 City of Brainerd CWF in-kind	\$57,943.41	\$57,943.41	10/19/2016	Y
2013- Bank Stabilization Little Buffalo Creek CWF	Streambank or Shoreline Protection	Current State Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)	\$111,100.00	\$111,079.93	11/16/2016	N
2013- Bank Stabilization Little Buffalo Creek CWF	Streambank or Shoreline Protection	Landowner Fund	2013 Landowner Contribution CWF	\$36,028.92	\$36,028.92	10/4/2016	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
712M - Bioretention Basin	1	1	12 LINEAR FEET	12 LINEAR FEET
712M - Bioretention Basin	1	1	30 LINEAR FEET	30 LINEAR FEET

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
712M - Bioretention Basin	1	1	38 LINEAR FEET	38 LINEAR FEET
712M - Bioretention Basin	3	3	40 LINEAR FEET	40 LINEAR FEET
712M - Bioretention Basin	2	1	19 LINEAR FEET	19 LINEAR FEET
712M - Bioretention Basin	4	1	20 LINEAR FEET	20 LINEAR FEET
584 - Stream Channel Stabilization	1	1	100 LINEAR FEET	140 LINEAR FEET
712M - Bioretention Basin	2	1	25 LINEAR FEET	25 LINEAR FEET
712M - Bioretention Basin	3	1	18 LINEAR FEET	18 LINEAR FEET
584 - Stream Channel Stabilization	1	1	100 LINEAR FEET	150 LINEAR FEET

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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Final Indicators Summary

Indicator Name	Total Value	Unit
BOD 5	0.02	LBS/YR
SEDIMENT (TSS)	0.46	TONS/YR
VOLUME REDUCED (ACRE-FEET/YEAR)	0.02	ACRE-FEET/YR
PHOSPHORUS (EST. REDUCTION)	3.94	LBS/YR

Grant Activity

Grant Activity - 2013 Curb Cut Raingarden/Bioretenion

Description	Crow Wing SWCD Staff will complete raingardens and bio-retention practices in target locations in the Little Buffalo Creek Watershed. This will include the cost of materials, labor, and plants, needed to create a functional raingarden or bioretention cell. The project will fund 100% of the cost for 20 of these practices. It is estimated each will cost approximately \$9,500.00. The City of Brainerd will provide in-kind cost share at a rate of about 30%. The goal is to reduce annual phosphorus loads by at least 12 lbs/yr and TSS by 11,000 lb/yr. This could be more depending on location and number installed.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	23-Jun-14	End Date	13-Sep-14
Has Rates and Hours?	Yes		
Actual Results	16 Landowners have committed to the creation and maintenance of a rain garden. The 17 Rain Gardens have been dug, erosion control blanket placed, mulch in place, and are planted as of September 2014.		

Activity Action - Query, Pru - Rain Garden

Practice	712M - Bioretention Basin	Count of Activities	1
Description	10x20 rain garden, 200 sqft		
Proposed Size / Units	20.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	20.00 LINEAR FEET	Installed Date	12-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Query, Pru - Rain Garden

Indicator Name	SEDIMENT (TSS)	Value	0.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Final Indicator for Query, Pru - Rain Garden

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.26
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Driver, Dorothy - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 feet x19 feet		
Proposed Size / Units	19.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	19.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Driver, Dorothy - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.0205
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Driver, Dorothy - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.14
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Hayden, Sarah - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	6 ft x 12 ft rain garden		
Proposed Size / Units	12.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	12.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Hayden, Sarah - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Hayden, Sarah - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.0035
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Gutzman, Joan & Wayne - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 25 ft rain garden		
Proposed Size / Units	25.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	25.00 LINEAR FEET	Installed Date	13-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Gutzman, Joan & Wayne - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.027
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Gutzman, Joan & Wayne - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.29
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Caquelin, Paul & Susan - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 19 ft rain garden		
Proposed Size / Units	19.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	19.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Caquelin, Paul & Susan - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Caquelin, Paul & Susan - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.012
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Simonson, Dwight - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 18 ft rain garden		
Proposed Size / Units	18.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	18.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Simonson, Dwight - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.34
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Simonson, Dwight - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.031
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Borkry, Joe - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 18 ft rain garden		
Proposed Size / Units	18.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	18.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Borkry, Joe - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.0135
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Borkry, Joe - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.15
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Doyle, Jeremy - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	6 ft x 18 ft rain garden		
Proposed Size / Units	18.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	18.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Doyle, Jeremy - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.024
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Doyle, Jeremy - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.27
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Larson, Tom & Marilee - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	2
Description	9 ft x 25 ft rain garden 9 ft x 15 ft rain garden		
Proposed Size / Units	40.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	40.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	2 Point(s)		

Final Indicator for Larson, Tom & Marilee - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.18
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Larson, Tom & Marilee - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.0155
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Larson, Tom & Marilee - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.026
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Final Indicator for Larson, Tom & Marilee - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.29
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Swanson, Hillary - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 25 ft rain garden		
Proposed Size / Units	25.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	25.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Swanson, Hillary - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.36
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Final Indicator for Swanson, Hillary - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.0325
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - McGown, Joe - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 20 ft rain garden		
Proposed Size / Units	20.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	20.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for McGown, Joe - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.31
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Final Indicator for McGown, Joe - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.028
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Bedard, Caren - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 20 ft rain garden		
Proposed Size / Units	20.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	20.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Bedard, Caren - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.0165
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Bedard, Caren - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Johnson, Rick - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	9 ft x 20 ft rain garden		
Proposed Size / Units	20.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	20.00 LINEAR FEET	Installed Date	15-Sep-15
Mapped Activities	1 Point(s)		

Final Indicator for Johnson, Rick - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.018
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Johnson, Rick - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - McCulley, Larry & Jill - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	10 ft x 30 ft Rain Garden		
Proposed Size / Units	30.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	30.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for McCulley, Larry & Jill - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	.05
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for McCulley, Larry & Jill - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.26
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Larson, Wayne - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	10 ft x 38 ft rain garden		
Proposed Size / Units	38.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	38.00 LINEAR FEET	Installed Date	15-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Larson, Wayne - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.05
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Larson, Wayne - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.26
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - Ford, Mark - Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	10 ft x 40 ft rain garden		
Proposed Size / Units	40.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	40.00 LINEAR FEET	Installed Date	13-Sep-14
Mapped Activities	1 Point(s)		

Final Indicator for Ford, Mark - Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.26
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		
Final Indicator for Ford, Mark - Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.05
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Grant Activity - 2013 Grant mgmnt and reporting CWF			
Description	SWCD Staff will track expenditures, SWCD Staff hours associated with project, pay all bills, complete semi-annual reporting, and all other reporting for this program.		
Category	ADMINISTRATION/COORDINATION		
Start Date	23-Jun-14	End Date	
Has Rates and Hours?	Yes		
Actual Results	SWCD Staff has tracked expenditures, SWCD Staff hours associated with project, paid all bills, completed semi-annual reporting, and all other reporting for this program.		

Grant Activity - 2013 Project Development CWF

Description	Crow Wing SWCD Staff will complete outreach to recruit landowners for installation of curb cut raingardens at targeted locations. Develop raingarden handouts, host public meetings, complete door-to-door knocking, utilize media resources to publicize grant funds. SWCD Staff will utilize civic engagement principles in the outreach process.		
Category	PROJECT DEVELOPMENT		
Start Date	16-Apr-13	End Date	
Has Rates and Hours?	Yes		
Actual Results	Crow Wing SWCD Staff has completed outreach to recruit landowners for installation of curb cut raingardens at targeted locations. Created raingarden handouts, hosted public meetings, completed door-to-door knocking, utilized media resources to publicize grant funds. SWCD Staff has utilized civic engagement principles in the outreach process.		

Grant Activity - 2013 Technical Assistance and Engineering CWF

<p>Description</p>	<p>The Crow Wing SWCD staff will review all project plans, project plant lists, site visits before and during all phases of construction through completion which will include contractor meetings. The SWCD will complete inspection in year 1 and year 2. The SWCD will require grantees that have difficult projects to have a professional engineer design and engineer the plan.</p> <p>Qualifications: SWCD staff working on NRCS technical approval authority for raingarden, streambank stabilization, and critical planting practices. Technical Service Area Joint Powers Board Engineer will review or engineer raingardens, and shoreline stabilization projects as needed.</p> <p>Project Manager: Beth Hippert- Crow Wing SWCD technician will, as needed, design or assist in the design of bank stabilization, critical planting, and rain garden practices. These will be based on NRCS practices and Minnesota Stormwater Manual. She is certified as a stormwater inspector in erosion and sediment control practices and has a B.S. in Environmental Studies from Bemidji State University. Also, she has five years of experience installing projects through the BWSR State Cost-Share program.</p> <p>Darren Meyers, Crow Wing SWCD Technician, will complete project development, preparation, installation, and assessment. Darren earned a B.S. in Biology from the University of New Mexico. In 2010, he worked as an intern for DNR Shoreland Specialist Heather Baird.</p> <p>Staff will work with City of Brainerd Engineering Staff to design and install curb cut raingardens in the Buffalo Creek Subwatershed.</p>	
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>	
<p>Start Date</p>	<p>17-Apr-13</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>	
<p>Actual Results</p>	<p>The Crow Wing SWCD staff has reviewed all project plans, project plant lists, site visits before and during all phases of construction through completion which has include contractor meetings. The SWCD has completed inspections in year 1 and year 2.</p> <p>Staff has worked with City of Brainerd Engineering Staff to design and install curb cut raingardens in the Buffalo Creek Subwatershed.</p>	

Grant Activity - 2013- Bank Stabilization Little Buffalo Creek CWF

Description	The SWCD staff will partner with contractors, JBP engineers, and landowners to complete bank stabilization projects. SWCD will utilize traditional and bio-engineered practices to stabilize the banks of the Little Buffalo Creek. The goal is to reduce sedimentation into Little Buffalo Creek by at least 4 tons/yr. The SWCD will complete 3 to 6 stabilization projects. The SWCD will provide cost-share 50 % to 75% of the total project cost. The SWCD Board will decide all cost-share rates. Project cost will depend on site and current erosion condition (vary from \$10,000 to \$ 50,000).		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	18-Mar-13	End Date	19-Oct-16
Has Rates and Hours?	No		
Actual Results	Have 4 Landowners interested in doing a shoreline restoration along Little Buffalo Creek streambank. 2 landowners have created 290 feet of shoreline restoration along little buffalo creek streambank.		

Activity Action - Matthew Seymour Bank Stabilization			
Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	140 Linear feet of restored streambank on both sides of Little Buffalo Creek		
Proposed Size / Units	100.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	140.00 LINEAR FEET	Installed Date	9-Oct-15
Mapped Activities	1 Line(s)		

Final Indicator for Matthew Seymour Bank Stabilization			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.0186
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Activity Action - William Beasley Stream Bank Restoration			
Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	Toe Wood Stream Bank Restoration		
Proposed Size / Units	100.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	150.00 LINEAR FEET	Installed Date	12-May-16
Mapped Activities	1 Line(s)		

Final Indicator for William Beasley Stream Bank Restoration			
Indicator Name	BOD 5	Value	0.0223

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	Little Buffalo Creek		

Grant Attachments

Document Name	Document Type	Description
2016 Financial Report Final	Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/20/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/19/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/11/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/23/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/25/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/02/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/02/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/27/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 09/06/2013
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/11/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/20/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/20/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/01/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/03/2016
Amendment	Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)
Financial Report 5-20-2015	Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)
grant_app_general-added.rpt	Grant	2013 - Clean Water Assistance Grant - Crow Wing (SWCD)