



Grant All-Detail Report Projects and Practices 2020

Grant Title - 2020 Lower Clearwater River Subwatershed Water Quality Agricultural Practices (Phase II)

Grant ID - C20-3913

Organization - Red Lake SWCD

Original Awarded Amount	\$274,275.00	Grant Execution Date	2/7/2020
Required Match Amount	\$68,568.75	Original Grant End Date	12/31/2022
Required Match %	25%	Grant Day To Day Contact	Tanya Waldo
Current Awarded Amount	\$274,275.00	Current End Date	12/31/2022

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$274,275.00	\$164,949.64	\$109,325.36
Total Match Amount	\$68,568.75	\$42,075.60	\$26,493.15
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$342,843.75	\$207,025.24	\$135,818.51

**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	Matching Fund
Administration / Coordination	Administration /Coordination	Current State Grant	2020 Lower Clearwater River Subwatershed Water Quality Agric..	\$15,525.00	\$6,667.99	11/15/2021	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Administration / Coordination	Administration /Coordination	Local Fund	Red Lake County, Red Lake County SWCD, Red Lake Watershed District, or Other Local Funding Source	\$3,881.25			Y
Agricultural Practices	Agricultural Practices	Current State Grant	2020 Lower Clearwater River Subwatershed Water Quality Agric..	\$207,000.00	\$126,226.80	11/22/2021	N
Agricultural Practices	Agricultural Practices	Local Fund	Red Lake County, Red Lake County SWCD, Red Lake Watershed District, Landowner Contribution, etc.	\$51,750.00	\$42,075.60	11/22/2021	Y
Project Development	Project Development	Current State Grant	2020 Lower Clearwater River Subwatershed Water Quality Agric..	\$20,700.00	\$7,598.80	11/15/2021	N
Project Development	Project Development	Local Fund	Red Lake County, Red Lake County SWCD, Red Lake Watershed District, and any Other Local Funding Source	\$5,175.00			Y
Technical / Engineering Assistance	Technical/Engineering Assistance	Current State Grant	2020 Lower Clearwater River Subwatershed Water Quality Agric..	\$31,050.00	\$24,456.05	9/15/2021	N
Technical / Engineering Assistance	Technical/Engineering Assistance	Local Fund	Red Lake County, Red Lake County SWCD, Red Lake Watershed District, and any Other Local Funding Source	\$7,762.50			Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
410 - Grade Stabilization Structure	11	11	11 COUNT	11 COUNT
410 - Grade Stabilization Structure	2	2	2 COUNT	2 COUNT
410 - Grade Stabilization Structure	8	8	8 COUNT	8 COUNT

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
410 - Grade Stabilization Structure	2	2	1 COUNT	1 COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Agricultural Practices	PHOSPHORUS (EST. REDUCTION)	569.38 LBS/YR	Clearwater River	RUSLE2 (UPDATED)	
Agricultural Practices	SOIL (EST. SAVINGS)	1958.82 TONS/YR	Clearwater River	RUSLE2 (UPDATED)	
Agricultural Practices	SEDIMENT (TSS)	793.28 TONS/YR	Clearwater River	RUSLE2 (UPDATED)	

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	1,330.50	TONS/YR
PHOSPHORUS (EST. REDUCTION)	971.23	LBS/YR
SOIL (EST. SAVINGS)	3,454.40	TONS/YR

Grant Activity

Grant Activity - Administration / Coordination		
Description	Project administration includes developing a partnership with the landowner, the Engineer and the SWCD. Contractual requirements, grant agreement requirements, BWSR Grants Administration Manual requirements, FY20 CWF Policy requirements, expenditure tracking, financial responsibilities, reporting requirements, and meeting the grant expiration deadline are the responsibility of the SWCD District Manager.	
Category	ADMINISTRATION/COORDINATION	
Start Date	8-Feb-20	End Date
Has Rates and Hours?	Yes	
Actual Results	<p>The District Manager made sure compliance with the FY 2020 BWSR Clean Water Fund Policy and the BWSR's Grant Administration Manual was met.</p> <p>The District Manager was responsible for contractual requirements, time and expenditure tracking, financial responsibilities, reporting requirements, and keeping the SWCD Board informed through the process.</p>	

Grant Activity - Agricultural Practices

Description	<p>Red Lake County SWCD has targeted ten sites for implementation of structural agricultural practices based on data analysis obtained from using the DRAFT Clearwater River WRAPs and TMDL Reports, Water Quality Decision Support System (WQDSS) tool, DNR Stressor ID database, and the Soil and Water Assessment Tool (SWAT) models. The data identified the Lower Clearwater River subwatershed as having the highest sediment yield in the Clearwater River Watershed, highlighted fields in the subwatershed with the highest sediment loading, and even showed specific locations in the field which were most vulnerable to erosion. Red Lake County SWCD conducted an Erosion Site Inventory in 2019, which verified the information from the tools/models and found landowners in these priority areas that were eager to fix the erosion problems on their fields.</p> <p>The structural agricultural practices will include, but are not limited to, grade stabilization structures, grassed waterways, and water & sediment basins. The implementation of these practices is estimated to reduce sediment loading to the Clearwater River (AUID 501) by 793.28 tons/year, or 32% of the TMDL required annual load reduction.</p> <p>The Ag practice lifespan will be 10-15 years, these practices will be installed on private lands and will require a contract between the SWCD and the landowner. Seventy-five percent of the projects will be covered by the state grant and twenty-five percent will be covered by a local match such as, but not limited to, Red Lake Watershed District, Red Lake County SWCD, the landowner, etc.</p>		
Category	AGRICULTURAL PRACTICES		
Start Date	8-Feb-20	End Date	
Has Rates and Hours?	No		
Actual Results	<p>FY 2020 - Installation of 10 Ag Practices installed in the Lower Clearwater River Subwatershed.</p> <p>FY2021 - Installation of 13 Ag Practices installed in the Lower Clearwater River Subwatershed.</p>		

Activity Action - Delorme - Grade Stabilization Structure			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Installation of a 410 - Grade Stabilization Structure		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	10-Nov-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Delorme - Grade Stabilization Structure

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	94.89
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Final Indicator for Delorme - Grade Stabilization Structure

Indicator Name	SOIL (EST. SAVINGS)	Value	326.47
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Final Indicator for Delorme - Grade Stabilization Structure

Indicator Name	SEDIMENT (TSS)	Value	132.21
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Activity Action - Ste. Marie - Grade Stabilization Structure			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Installation of 410 - Grade Stabilization Structure		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	10-Nov-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Ste. Marie - Grade Stabilization Structure

Indicator Name	SOIL (EST. SAVINGS)	Value	326.47
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Final Indicator for Ste. Marie - Grade Stabilization Structure

Indicator Name	SEDIMENT (TSS)	Value	132.21
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Final Indicator for Ste. Marie - Grade Stabilization Structure			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	94.90
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Activity Action - Perreault - Grade Stabilization Structures			
Practice	410 - Grade Stabilization Structure	Count of Activities	8
Description	Installation of eight 410-Grade Stabilization Structures		
Proposed Size / Units	8.00 COUNT	Lifespan	10 Years
Actual Size/Units	8.00 COUNT	Installed Date	10-Nov-20
Mapped Activities	8 Point(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Perreault - Grade Stabilization Structures			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	379.59
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Final Indicator for Perreault - Grade Stabilization Structures			
Indicator Name	SOIL (EST. SAVINGS)	Value	1305.88
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Final Indicator for Perreault - Grade Stabilization Structures			
Indicator Name	SEDIMENT (TSS)	Value	528.85
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Activity Action - Gagnon - Grade Stabilization Structures			
Practice	410 - Grade Stabilization Structure	Count of Activities	2
Description	Installation of two Grade Stabilization Structures.		
Proposed Size / Units	2.00 COUNT	Lifespan	10 Years
Actual Size/Units	2.00 COUNT	Installed Date	22-Oct-21
Mapped Activities	2 Point(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Gagnon - Grade Stabilization Structures			
Indicator Name	SEDIMENT (TSS)	Value	66.10
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)

Waterbody	Clearwater River		
Final Indicator for Gagnon - Grade Stabilization Structures			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	47.45
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		
Final Indicator for Gagnon - Grade Stabilization Structures			
Indicator Name	SOIL (EST. SAVINGS)	Value	163.23
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater River		

Activity Action - Knutson - Grade Stabilization Structures			
Practice	410 - Grade Stabilization Structure	Count of Activities	11
Description	Installed eleven Grade Stabilization Structures.		
Proposed Size / Units	11.00 COUNT	Lifespan	10 Years
Actual Size/Units	11.00 COUNT	Installed Date	11-Nov-21
Mapped Activities	11 Point(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Knutson - Grade Stabilization Structures			
Indicator Name	SEDIMENT (TSS)	Value	471.13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater		
Final Indicator for Knutson - Grade Stabilization Structures			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	354.40
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater		
Final Indicator for Knutson - Grade Stabilization Structures			
Indicator Name	SOIL (EST. SAVINGS)	Value	1332.35
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Clearwater		

Grant Activity - Project Development

Description	<p>The District Manager will act as a liaison between the landowner, Red River Valley Conservation Service Area RRVCSA) Technician, Red Lake County Highway Engineer, and the SWCD for on-site field visit.</p> <p>The District Manager will submit an Engineering request with the RRVCSA Technician for surveying the project site.</p> <p>The District Manager will Inform the landowner on the project's process (contract, design, bidding process, reimbursement voucher, etc.).</p> <p>If RRVCSA Technician and the RLC Highway Engineer are not available, the SWCD will be hiring an Engineering Firm to complete the work.</p>		
Category	PROJECT DEVELOPMENT		
Start Date	8-Feb-20	End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>Developed a partnership between the landowners, Private Engineer, and the SWCD District staff.</p> <p>Scheduled with Private Engineer for surveying each project site.</p> <p>Scheduled with Private Engineer a meeting with each landowner to review preliminary designs.</p> <p>Assisted the landowner through the project's process (contract, preliminary design and final design review, bidding process, reimbursement voucher, etc.).</p>		

Grant Activity - Technical / Engineering Assistance

Description	<p>Technical and Engineering Assistance will be provided by the SWCD staff, the Red Lake County Highway Engineer, and the Red River Valley Conservation Service Area Technician.</p> <p>If the above Technical/Engineering staff are not available, the SWCD will be hiring someone with JAA or an Engineering Firm to complete the survey, design, construction, and construction inspection work.</p> <p>Designs and practice certification will be signed by the RLC Engineer or someone with appropriate job approval authority or a licensed engineer.</p> <p>Job approval authority credentials are available in eLINK or upon request.</p> <p>Ag practices will be designed according to the NRCS FOTG standards.</p>	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	8-Feb-20	End Date
Has Rates and Hours?	Yes	
Actual Results	<p>In 2021, the Technical and Engineering Voucher was received from J. Hest in the amount of \$12,000.00 for the survey and design work completed on Ste. Marie, Delorme, and Perreault sites.</p> <p>In 2021, Houston Engineering conducted the Technical & Engineering for the Gagnon and Knutson projects (13 total) in the amount of \$14,016.80.</p>	

Grant Attachments

Document Name	Document Type	Description
2020 BWSR CWF Application Image	Grant	2020 Lower Clearwater River Subwatershed Water Quality Agricultural Practices (Phase II)
2020 Competitive Grant	Grant Agreement	2020 Competitive Grant - Red Lake SWCD
2020 Competitive Grant EXECUTED	Grant Agreement	2020 Competitive Grant - Red Lake SWCD

Document Name	Document Type	Description
2020 Lower Clearwater River Subwatershed Interim Financial Report	Grant	2020 Lower Clearwater River Subwatershed Water Quality Agricultural Practices (Phase II)
2020 Project & Practices Interim Financial Report	Grant	2020 Lower Clearwater River Subwatershed Water Quality Agricultural Practices (Phase II)
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/23/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/23/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/22/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/16/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/26/2021
Application	Workflow Generated	Workflow Generated - Application - 08/22/2019
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/22/2020
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/05/2020
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/22/2020
grantmap_23491_2019-08-22_01-45-09-PM.jpg	Grant	2020 Lower Clearwater River Subwatershed Water Quality Agricultural Practices (Phase II)