



Grant All-Detail Report 2011 - Runoff Reduction

Grant Title - 2011 - Runoff Reduction - Red Lake WD (WSHED)

Grant ID - C13-1850

Organization - Red Lake WD

Grant Awarded Amount	\$750,757.00	Grant Execution Date	
Required Match Amount	\$187,689.25	Grant End Date	1/1/2020
Required Match %	25%	Grant Day To Day Contact	

Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	\$750,757.00	\$684,973.32	\$65,783.68
Total Match Amount	\$191,759.91	\$312,231.39	\$-120,471.48
Total Other Funds	\$120,032.09	\$127,397.78	\$-7,365.69
Total	\$1,062,549.00	\$1,124,602.49	\$-62,053.49

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Admin - Grade Stabilization for Reduction of Sedimentation in the Thief River	Administration /Coordination	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$9,399.00	\$7,704.30	12/10/2012	N
Admin - Grand Marais Creek Channel Stabilization Project	Administration /Coordination	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$0.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Admin - Grand Marais Creek Channel Stabilization Project	Administration /Coordination	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$20,000.00	\$13,346.06	1/30/2013	Y
Bank Stabilization Along the Grand Marais Creek Cut Channel	Streambank or Shoreline Protection	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$247,776.00	\$247,776.00	12/27/2012	N
Bank Stabilization Along the Grand Marais Creek Cut Channel	Streambank or Shoreline Protection	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$92,541.55	1/31/2013	Y
Bank Stabilization Along the Grand Marais Creek Cut Channel	Streambank or Shoreline Protection	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$4,448.00	\$4,448.00	2/1/2013	N
Bank Stabilization Along the Grand Marais Creek Cut Channel	Streambank or Shoreline Protection	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$305.67	1/31/2013	Y
Bank Stabilization Along the Grand Marais Creek Cut Channel	Streambank or Shoreline Protection	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$1,355.61	1/31/2013	Y
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$0.00			N
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00			Y
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$11,250.00	\$597.16	8/23/2012	N
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$11,250.00	\$9,088.92	8/23/2012	N
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$3,750.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Buffer Strips along the Grand Marais Creek Cut Channel	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$0.00			N
Buffer Strips along the Grand Marais Creek Cut Channel	Agricultural Practices	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00			Y
Buffer Strips along the Grand Marais Creek Cut Channel	Agricultural Practices	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$983.07	1/31/2013	N
Buffer Strips along the Grand Marais Creek Cut Channel	Agricultural Practices	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$5,452.00	1/31/2013	N
Buffer Strips along the Grand Marais Creek Cut Channel	Agricultural Practices	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$8,344.31	1/31/2013	N
Buffer Strips along the Grand Marais Creek Cut Channel	Agricultural Practices	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$10,570.62	1/31/2013	N
Buffer Strips along the Grand Marais Creek Cut Channel	Agricultural Practices	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00			Y
Grade Stabilization along the Grand Marais Creek Cut Channel	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$247,776.00	\$247,776.00	9/14/2012	N
Grade Stabilization along the Grand Marais Creek Cut Channel	Agricultural Practices	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$128,850.00	\$126,226.98	1/31/2013	Y
Install 36" Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Special Projects	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N
Install 36" Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Special Projects	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00	\$0.00	8/23/2012	Y
Install 36" Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Special Projects						
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$5,625.00	\$48,504.55	7/13/2012	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$1,875.00	\$12,126.14	8/23/2012	Y
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00	\$0.00	8/23/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$0.00			N
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$0.00	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$12,000.00	\$12,000.00	6/8/2012	N
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$110.70	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$130.00	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$215.00	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$251.72	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$643.20	6/8/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$1,206.00	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$1,720.00	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$1,768.80	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$1,929.60	6/8/2012	Y
PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization	Project Development	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$12,000.00	\$5,720.00	6/8/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$6,450.00	\$2,331.29	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$1,784.91	\$641.57	3/14/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$1,500.00			N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$415.09	\$0.19	3/14/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$415.09	\$43.88	3/14/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$415.09	\$105.13	3/14/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Returned Funds	Special Projects						
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$25,000.00	\$8,711.08	8/23/2012	N
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$6,000.00			Y
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00			Y
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$25,000.00	\$8,711.08	8/23/2012	N
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$6,000.00			Y
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00			Y
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$25,000.00	\$7,484.87	7/13/2012	N
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$6,000.00	\$1,226.21	8/23/2012	Y
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00	\$0.00	8/23/2012	Y
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$25,000.00	\$6,968.86	7/13/2012	N
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$6,000.00	\$1,742.22	2/4/2013	Y
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00	\$0.00	2/4/2013	Y
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$25,000.00	\$6,968.86	7/13/2012	N
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$6,000.00	\$1,742.22	8/23/2012	Y
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00	\$0.00	8/23/2012	Y
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$25,000.00	\$8,305.43	9/12/2012	N
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$6,000.00	\$918.15	8/23/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$0.00			N
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$0.00	\$0.00	8/23/2012	Y
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$0.00			N
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$0.00	1/31/2013	Y
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$551.30	12/27/2012	N
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$665.12	12/27/2012	N
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$806.90	12/27/2012	N
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$2,919.01	12/27/2012	N
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$6,597.00	12/27/2012	N
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$25,350.00	\$13,810.67	12/27/2012	N
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$4,650.00	\$450.95	1/31/2013	Y
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$4,650.00	\$1,444.75	1/31/2013	Y
Side Water Inlets along the Grand Marais Creek Cut Channel	Conservation Drainage	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$4,650.00	\$1,649.25	1/31/2013	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$79,981.00	\$79,981.00	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$50,484.41	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$9,300.00	\$236.03	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$9,300.00	\$542.10	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$9,300.00	\$608.65	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$9,300.00	\$734.08	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	\$9,300.00	\$7,179.14	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$10,019.00	\$418.33	7/25/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$10,019.00	\$3,916.46	7/25/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Shoreland Improvement - Red Lake WD (WSHED)	\$10,019.00	\$5,684.21	7/25/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$36.06	12/26/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$38.85	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$206.04	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$221.97	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$264.08	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$284.50	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$727.99	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$784.27	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$1,277.81	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$1,376.60	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$1,670.10	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$1,688.13	12/26/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$1,799.22	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	\$0.00	\$1,818.65	12/26/2012	Y
Tech. Assistance and Eng. - Grade Stabilization for Reduction of Sedimentation in the Thief River	Technical/Engineering Assistance	Current State Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)	\$3,750.00	\$3,750.00	8/22/2012	N
Tech. Assistance and Eng. - Grade Stabilization for Reduction of Sedimentation in the Thief River	Technical/Engineering Assistance	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	\$3,250.00	\$11,235.88	8/22/2012	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
468 - LINED WATERWAY OR OUTLET	1	0	52 ACRE-FEET/YR
393 - Filter Strip	1	2	11.84 AC
410 - Grade Stabilization Structure	8	3	0 COUNT
393 - Filter Strip	1	2	6.52 AC
580 - Streambank and Shoreline Protection	1	2	600 LINEAR FEET
580 - Streambank and Shoreline Protection	1	2	2670 LINEAR FEET
580 - Streambank and Shoreline Protection	1	2	400 LINEAR FEET
587 - Structure for Water Control	16	2	0 COUNT
580 - Streambank and Shoreline Protection	1	2	1000 LINEAR FEET
587 - Structure for Water Control	6	2	1 COUNT
468 - LINED WATERWAY OR OUTLET	1	2	21 ACRE-FEET/YR
580 - Streambank and Shoreline Protection	1	2	25 LINEAR FEET

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
468 - LINED WATERWAY OR OUTLET	1	2	103 ACRE-FEET/YR
468 - LINED WATERWAY OR OUTLET	1	2	12 ACRE-FEET/YR

Indicators Summary

Indicator Name	Total Value	Unit
Legacy Migration	603	TONS/YR
Legacy Migration	693	LBS/YR

Grant Activity

Grant Activity - Admin - Grade Stabilization for Reduction of Sedimentation in the Thief River		
Description	The Red Lake Watershed District (RLWD) Water Quality Coordinator will be in charge of completing all the necessary progress reports in eLINK. The RLWD Water Quality Coordinator will work with the RLWD Natural Resources Technician to post reports and other information related to this project on RLWD website. The RLWD Accounting/Secretary will keep track of expenditures that are charged to this project. The RLWD Administrator and RLWD Water Quality Coordinator will work together to coordinate the work that needs to be done for this project. The administrative work will also involve accounting for and management of in-kind contributions from Marshall County (ditch authority, highway department, SWCD) and other sources.	
Category	ADMINISTRATION/COORDINATION	
Start Date	25-Mar-11	End Date Thu Feb 14 00:00:00 CST 2013
Rates and Hours		
Actual Results	<p>RLWD staff have worked on creating blank invoices for project partners, collecting signatures from landowners, and coordinating the work that is being done on the project. A progress report was submitted to BWSR and accepted.</p> <p>The Bid Opening meeting for the construction of this project was held at 9:30 AM on March 5, 2012. Taggart Excavating and Septic Service had the lowest bid at \$90,268 and was awarded the project by the RLWD Board of Managers.</p> <p>The third progress report was completed for the project.</p> <p>The RLWD Board of Managers approved payment of \$111,755.15 for Pay Estimate #1 from Taggart Excavation and Septic at their July 12, 2012 meeting.</p> <p>The final payment hearing for Taggart Excavation and Septic Service was held at 9:30 am on August 23, 2012. President Nelson stated that the meeting had been properly advertised. Discussion regarding the final payment request was had and the opportunity for public comment was given. There was no one in attendance objecting to the final payment. The final payment of \$9,751.85 was approved by the RLWD Board of Managers.</p> <p>A final report for the project will be completed in February 2013.</p> <p>In addition to the creation of a website for this project (http://www.redlakewatershed.org/tr_sediment.html), online information about this project is also available in the August 2012 RLWD Monthly Water Quality Report and on the Red Lake</p>	

Watershed District's Facebook page.

Grant Activity - Admin - Grand Marais Creek Channel Stabilization Project

Description	The Red Lake Watershed District (RLWD) Administrator and Water Quality Coordinator will be in charge of completing all the necessary progress reports in eLINK. The RLWD Administrator will work with the RLWD Natural Resources Technician to post reports and other information related to this project on RLWD website. The RLWD Accounting/Secretary will keep track of expenditures that are charged to this project. The RLWD Administrator will coordinate the work that needs to be done for this project. The administrative work will also involve accounting for and management of any in-kind contributions that may come from other sources.		
Category	ADMINISTRATION/COORDINATION		
Start Date	25-Mar-11	End Date	Thu Jan 31 00:00:00 CST 2013
Rates and Hours			
Actual Results	<p>Myron Jesme has been communicating with Houston Engineering in order to coordinate the surveying and engineering needed for this project. Progress was delayed for part of the summer in 2011 by high water in the Red River of the North. Corey Hanson completed an eLINK progress report for this project in July 2011, January 2012, and July 2012.</p> <p>A preliminary public meeting was held.</p> <p>Myron Jesme and Tammy Audette spent time on acquiring easements in early 2012.</p> <p>Mike Wyatt of the USACE completed a study of the project, which may be of help during the permitting process.</p> <p>The public hearing for the Grand Marais Cut Channel Project and a preliminary resolution meeting were held on March 5, 2012 at 10 AM at the RLWD office.</p> <p>A pre-construction meeting was held on May 31st, 2012.</p> <p>The USACE permit was obtained after the completion of an archaeological cultural study. Because the study found some burnt bison bones, the lower (west, downstream) grade stabilization structure had to be moved upstream, to the east.</p> <p>A bid opening was held on April 26th. RJ Zavoral & Sons had the winning bid of \$540,547.</p> <p>Construction began in June 2012.</p> <p>A webpage was created for the project at http://www.redlakewatershed.org/cutchannel.html.</p>		

Grant Activity - Bank Stabilization Along the Grand Marais Creek Cut Channel

Description	Agricultural land along the Grand Marais Creek cut-off channel is rapidly being lost due to erosion and bank failure. This has contributed to turbidity impairments in Grand Marais Creek and the Red River of the North. This project will implement bank stabilization along the cut channel of Grand Marais Creek. Stream banks will be resloped, critical areas will be armored, and the banks will be seeded. The estimated life of this construction is estimated to be 25 years.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Jun-12	End Date	Thu Jan 31 00:00:00 CST 2013
Rates and Hours			
Actual Results	Construction began in June 2012. During construction, water seepage through the slope was found. This water seepage was visible on the surface and started to cause cracks in the bank soon after construction. It became apparent that subsurface drainage would be needed to fix this problem. The project initially stabilized a stretch of the south bank, upstream of the CR64 Bridge. Along 800 feet of the bank stabilization of the south bank upstream of the bridge, drain tile was installed parallel to the channel near the top of the slope. This tile system had two gated outlets. Bank stabilization was also expanded to the north stream bank. Enough financial resources were available to expand the bank stabilization for approximately 1000 feet of the south bank downstream of the CR64 Bridge. A clay plug was excavated near the top of the slope at a depth approximately equal to the channel bottom for approximately 1000 feet on the south bank on the downstream side of the bridge and 700 feet along the south bank on the upstream side. The purpose of the plug is to help prevent slope sloughing due to groundwater seepage. Along the 1000 feet of bank stabilization downstream of the bridge, coarse filter aggregate drains were excavated perpendicular to the channel, through the clay plug, to drain water that builds up behind the clay plugs. This technique was used on 700 feet upstream of the cut-channel. Banks were also stabilized on the upstream sides of the grade stabilization structures. Drain tile was installed to prevent bank seepage and sloughing near the structures. Langan recommended the installation of 6" PVC poly pipe drain tile with a gated outlet with pea rock at an estimated cost of \$30,000 to help stabilize the banks by the grade stabilization structures. To help stabilize the channel slopes, 4:1 slopes were used. Where there was channel seepage problems, 5.5:1 slopes were used.		

Activity Action - Bank stabilization by the east grade stabilization structure			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	4
Description			
Proposed Size / Units	LINEAR FEET	Lifespan	25 Years
Actual Size/Units	400 LINEAR FEET	Installed Date	

Activity Action - Bank stabilization near the west grade stabilization structure			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	4
Description			
Proposed Size / Units	LINEAR FEET	Lifespan	25 Years
Actual Size/Units	600 LINEAR FEET	Installed Date	

Activity Action - Bank stabilization west of CR64			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	4
Description			
Proposed Size / Units	LINEAR FEET	Lifespan	25 Years
Actual Size/Units	1000 LINEAR FEET	Installed Date	

Activity Action - Grade stabilization east of CR64			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	4
Description			
Proposed Size / Units	LINEAR FEET	Lifespan	25 Years
Actual Size/Units	2670 LINEAR FEET	Installed Date	

Grant Activity - Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River

Description	A section of streambank along CD20 will be stabilized at a location where the bank is failing across from the confluence with Branch 1 of CD20. The eroding bank is located near the intersection of 240th St. NE and 180th Ave. NE in Marshall County. Construction should occur in the mid-to-late summer when flows within the ditch are minimal. This will be a rock structure, so seeding is not expected to be necessary. The ditch authority will be responsible for the maintenance and long-term operation of this project.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	19-Jun-12	End Date	Thu Aug 23 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Construction proceeded when water levels receded in late June. This part of the project was completed by the end of June 2012. This structure was designed by the Red River Valley Conservation Service Area Engineer, James Hest. Using Class III rip-rap, and non-woven geotextile, 50 feet of the north bank of Marshall County Ditch 20 on the upstream side of the 180th Ave Bridge was protected from the erosive forces of water entering CD20 from a township ditch.		

Activity Action - Bank Stabilization

Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	LINEAR FEET	Lifespan	10 Years
Actual Size/Units	25 LINEAR FEET	Installed Date	

Grant Activity - Buffer Strips along the Grand Marais Creek Cut Channel

Description	Buffer strips will be installed along the cut-off channel of Grand Marais Creek to prevent erosion, improve water quality, and enhance habitat for wildlife and aquatic life. Land rights will be secured through perpetual easements, held by the RLWD or appropriate ditch authority, along this waterway to allow room for the buffer strips to be established. The RLWD will be responsible for the construction and inspection. Operation and maintenance needs will be addressed by using local funds (RLWD or appropriate ditch authority). The estimated life of these practices is 25 years.		
Category	AGRICULTURAL PRACTICES		
Start Date	1-Jun-12	End Date	Thu Jan 31 00:00:00 CST 2013
Rates and Hours			
Actual Results	Approximately five acres of buffers have been installed and are seeded. A minimum of 20 feet of buffer was established between the top of the slope and the permanent right-of-way. Buffers consist of permanent grass cover with no tillage allowed. Buffers were established along all areas of the channel that were excavated for this project. It is planned to ensure that the buffers are well-established with grass cover. Re-seeding will be conducted where needed.		

Activity Action - Buffers between CR64 and the eastern grade stabilization structure

Practice	393 - Filter Strip	Count of Activities	2
Description	6.519 acres of new buffers were established along a permanent ditch right of way. They add width to the existing, narrower RIM easement that runs along the ditch.		
Proposed Size / Units	AC	Lifespan	10 Years
Actual Size/Units	6.52 AC	Installed Date	

Activity Action - Right of Way Buffer East of CR64

Practice	393 - Filter Strip	Count of Activities	2
Description	11.839 acres of new buffers within a permanent ditch right of way were established along the project area east of CR64. Essentially, the whole reach between the future site of the diversion structure for the Grand Marais Creek Outlet Restoration Project and Polk County Road 64 has been buffered. The new buffers add width to the narrower existing RIM easement that runs along the center of the channel.		
Proposed Size / Units	AC	Lifespan	10 Years
Actual Size/Units	11.84 AC	Installed Date	

Grant Activity - Grade Stabilization along the Grand Marais Creek Cut Channel			
Description	Drop structures/spillways will be used to flatten the channel profile to non-erosive velocities, thereby eliminating the head-cutting, bank sloughing, and excessive transport of sediment to the Red River of the North. Houston Engineering will design the structures. The RLWD will coordinate and oversee the construction. The estimated life of these structures is 25 years.		
Category	AGRICULTURAL PRACTICES		
Start Date	1-Jun-12	End Date	Thu Jan 31 00:00:00 CST 2013
Rates and Hours			
Actual Results	After the Grand Marais Creek outlet restoration project was funded, a design strategy was chosen for the cut-channel grade stabilization project. Two vertical drop structures were constructed within the cut-channel. They were designed to create a stable channel grade that is similar to the original design. Channel shaping was needed at the outlet. Construction began in June. The furthest upstream (east) structure has been constructed. Two sheet piling structures were constructed. The structures have welded-on caps and are rip-rapped on the upstream and downstream sides. All of the rip-rap is grouted on the downstream sides. The one closest to the Red River was moved upstream 170 feet due to archaeological discoveries at the original planned construction site. The upstream side to downstream side drop at the sheet piling structures is 6 feet on the downstream structure and 5.5 feet on the upstream structure. The downstream structure is 600 feet from the Red River of the North and the upstream structure is 1000 feet upstream of the downstream structure.		

Activity Action - East Grade Stabilization Structure			
Practice	410 - Grade Stabilization Structure	Count of Activities	2
Description	This is the furthest upstream, or east, of the two grade control structures that were installed for this project. Some bank stabilization work was done near the structure. Rock rip-rap was used to armor the banks and the channel around the structure.		
Proposed Size / Units	COUNT	Lifespan	25 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - West Grade Stabilization Structure			
Practice	410 - Grade Stabilization Structure	Count of Activities	2
Description	This is the structure that is the furthest west, furthest downstream, and closest to the Red River of the North. The original location was going to be closer to the Red River, but it was moved upstream due to archaeological discoveries at the original site. Flotation silt curtains were used during construction. Rock rip-rap protects the bank and provides a spillway for the structure. Stream banks were stabilized around the structure as well.		
Proposed Size / Units	COUNT	Lifespan	25 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - Install 36" Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River			
Description	A side-water inlet will be installed along Marshall County Ditch 20 to prevent gully erosion where a field drainage-way enters county ditch. The field is located in the northwest quarter of Section 29 in Agder Township in Marshall County. The funding will also be used to pay for the contractor's time and materials that are used during the installation. The side-water inlet will be constructed according to NRCS standards. Construction should occur in July or August when flows are minimal, so that seeding can be completed before September 14th of the year-of-construction.		
Category	SPECIAL PROJECTS		
Start Date		End Date	
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. No bills have been paid as of the end of June. At least 14 additional side water inlets will be installed as part of this project. The work plan should be updated after the approval of this report so that July construction payments can be divided appropriately among projects.		

Grant Activity - Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River

Description	A side-water inlet will be installed along Marshall County Ditch 20 to halt gully erosion that has occurred in a field drainage-way. The field is located in the northwest quarter of Section 29 in Agder Township in Marshall County. The funding will also be used to pay for the contractor's time and materials that are used during the installation. The side-water inlet will be constructed according to NRCS standards. Construction should occur in July or August when flows are minimal, so that seeding can be completed before September 14th of the year-of-construction.		
Category	CONSERVATION DRAINAGE		
Start Date	19-Jun-12	End Date	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	<p>Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. Sixteen additional side water inlets will be installed as part of this project for a total of 18.</p> <p>One forty-eight inch culvert, three thirty-six inch culverts, three thirty inch culverts, six twenty-four inch culverts, and five eighteen inch culverts were installed. Metal apron was used at the inlet end of each culvert and flapgates were installed at the outlet end of each culvert. Sideslopes were designed to be 3:1 on the inlet side of the spoilbank/spillway and 2:1 on the outlet side of the bank. Class III rock rip-rap was placed at the outlet of each pipe.</p> <p>It cost much less than the budgeted amount to construct the rock riffle structures. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly ove-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.</p>		

Activity Action - 18 inch side water inlet

Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 24 inch side water inlet			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 24 inch side water inlet along CD20			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	

Final Indicator for 24 inch side water inlet along CD20			
Indicator Name	Legacy Migration	Value	693
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody			

Final Indicator for 24 inch side water inlet along CD20			
Indicator Name	Legacy Migration	Value	603
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody			

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 30 inch side water inlet			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 30 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 30 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 36 inch side water inlet			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 36 inch side water inlet			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 36 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	

Activity Action - 48 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - PD - Grand Marais Creek Cutoff Ditch Bank and Grade Stabilization			
Description	Buffer strips and side-water inlets will be installed along the cut-channel of Grand Marais Creek to prevent erosion, improve water quality, and enhance habitat for wildlife and aquatic life. The Red Lake Watershed District will also lead the project development and coordination that is needed to initiate the installation of rock weirs and bank stabilization along the Grand Marais Creek cut-off channel. Land rights will be secured through perpetual easements, held by the RLWD or appropriate ditch authority, along this waterway to allow room for the stream bank to be stabilized. To compensate landowners for the land within the footprint of this project, comparable sales and appraisals, if necessary will be used to establish land costs. The dollars used to purchase the right of way will be used as a match for the grant. The RLWD will also work to secure additional funding and/or in-kind contributions from the Polk County Ditch Authority.		
Category	PROJECT DEVELOPMENT		
Start Date	25-Mar-11	End Date	Fri Jun 08 00:00:00 CDT 2012
Rates and Hours			
Actual Results	RIM Easements were acquired on the Backstrom, Harstad, Mack, and Vanyo properties. Permanent easements were acquired on the Pape property (they did not apply for RIM). An extra temporary construction easement was acquired on the Harstad property. The Red Lake Watershed District paid for advertisements in the East Grand Forks Exponent newspaper for the Grand Marais Cut Channel Project Hearing, Preliminary Resolution Hearing, and the Bid Opening.		

Grant Activity - PD -Grade Stabilization for Reduction of Sedimentation in the Thief River

<p>Description</p>	<p>The Red Lake Watershed District (RLWD) Administrator, RLWD Water Quality Coordinator, Marshall County, and the Red River Valley Conservation Service Area Conservation Engineer will work together to plan the installation of six grade stabilization structures, two side water inlet structures, and a bank stabilization project along Marshall County Ditch 20.</p> <p>The exact locations of the structures will be identified during the design process. A longitudinal profile of this reach has already been surveyed and will help with the planning. Any other coordination that becomes necessary (permits, meet with the ditch authority) will also be funded by this initiative. It will be necessary to obtain permission/easements for access along the south side of CD20 to construct the grade stabilization structures. The RLWD Engineering Technician and the Marshall County SWCD will make sure that this is accomplished. Bids for the construction of the grade stabilization structures, bank stabilization, and side-water inlets will be sought. All of these projects will likely be combined into one bid.</p> <p>During 2010 project planning, prior to the grant application, two sites were identified along CD20 in Section 29 of Agder Township that needed side-water inlets. One has a particularly large gully that formed in 2010. The landowner was contacted and was willing to allow the construction of the side-water inlets. An important part of this initiative is making sure that the landowner is involved in the process of getting these installed. The RLWD or the Marshall County SWCD will secure an easement agreement with the landowner for the project installation and long-term maintenance. The ditch authority will be responsible for the maintenance and long-term operation of the structures. Any other coordination that becomes necessary (permits, meet with the ditch authority) will also be funded by this initiative.</p> <p>Most of the bank stabilization work will occur within the road right-of-way.</p>		
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>		
<p>Start Date</p>	<p>25-Mar-11</p>	<p>End Date</p>	<p>Mon Jul 02 00:00:00 CDT 2012</p>
<p>Rates and Hours</p>	<p></p>		
<p>Actual Results</p>	<p>Danny Thorstad of the Marshall County SWCD talked to most of the landowners along the project area and got signed temporary access easements for the construction along County Ditch 20. RLWD staff obtained two more signed easements. One last landowner wanted to talk with the project's engineers before agreeing to the project. That meeting has also successfully taken place.</p> <p>When the construction bid came in under budget, RLWD staff (Gary Lane, Nick Olson, Loren Sanderson) searched for additional spots along the ditch where side water inlets could be installed.</p>		

	A pre-construction meeting was held on April 18, 2012. Present at the meeting were Troy Taggart, Lon Aune, Danny Thorstad, and RLWD staff.
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Grant Activity - Returned Funds		
Description	Clean Water Fund grant funds that weren't spent need to be returned to the Board of Water and Soil Resources.	
Category	SPECIAL PROJECTS	
Start Date	5-Feb-13	End Date
Rates and Hours		
Actual Results	The bid from the contractor was much lower than what was estimated by the project's engineers. All of the components of the project were completed. Then, there was enough extra money to add 16 more side water inlet culverts along Marshall County Ditch 20 in the area of this project. The additional side water inlet culverts will improve the efficacy of this project for reducing the amount of sediment that enters the Thief River from the CD20 drainage area.	

Grant Activity - Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River

Description	This initiative will cover the labor and construction materials that are needed to construct the first of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	End Date	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	<p>Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June.</p> <p>This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed.</p> <p>It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.</p>		

Activity Action - Rock riffle check dam #1

Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description			
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This project will pay for the construction materials and labor that are needed to construct the second of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	End Date	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	<p>Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June.</p> <p>This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed.</p> <p>It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.</p>		

Activity Action - Rock riffle check dam #2			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River

Description	This initiative will cover the staff time and construction materials that are needed to construct the third of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	End Date	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	<p>Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June.</p> <p>This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed.</p> <p>It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.</p>		

Activity Action - Rock riffle check dam #3

Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River

Description	This initiative will cover the staff time and construction materials that are needed to construct the fourth of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	End Date	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	<p>Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June.</p> <p>This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed.</p> <p>It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.</p>		

Activity Action - Rock riffle check dam #4

Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River

Description	This initiative will cover the staff time and construction materials that are needed to construct the fifth of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	End Date	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	<p>Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June.</p> <p>This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed.</p> <p>It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.</p>		

Activity Action - Rock riffle check dam #5

Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This initiative will cover the staff time and construction materials that are needed to construct the first of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	End Date	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	<p>Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. No bills have been paid as of the end of June.</p> <p>This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed.</p> <p>It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.</p>		

Activity Action - Rock riffle check dam #6			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	This check dam had to be finished-up by another contractor after high water receded. This structure is the nearest to the Thief River of the six. Agassiz National Wildlife Refuge began releasing a large amount of water from their pools in early August.		
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Grant Activity - Side Water Inlets along the Grand Marais Creek Cut Channel

Description	Side water inlets will be installed along the Grand Marais Creek cut channel using NRCS standards. Houston Engineering, Inc. will design the structures. Houston Engineering, Inc. will also oversee the construction and inspection. The estimated life of these structures is 25 years. The number of side water inlets will be determined during the final design phase. Operation and maintenance needs will be addressed by using local funds (RLWD or appropriate ditch authority).		
Category	CONSERVATION DRAINAGE		
Start Date	1-Jun-12	End Date	Thu Jan 31 00:00:00 CST 2013
Rates and Hours			
Actual Results	Construction began in June 2012. Side water inlet structures have been installed to the east and west of the CR64 Bridge. Three side inlet culverts and one rock chute were installed on the upstream side of CR64. The rock chute (Class 3 rip-rap) was used to stabilize the outlet of a ditch without adding a berm. On the downstream side of CR64, three rock chutes were installed and one side water inlet pipe was installed. All of the culverts were equipped internal flap gates and their outlets were rip-rapped. A total of 170 feet of 18 inch corrugated pipe was used. 270 feet of 24 inch corrugated steel pipe was used. Culverts ranged in length between 70 feet and 140 feet. Class three rip-rap was used at the outlets of the side inlet culverts.		

Activity Action - North rock chute on the west side of CR64

Practice	468 - LINED WATERWAY OR OUTLET	Count of Activities	8
Description	This rock chute stabilizes the outlet of a ditch along CR64. It enters the Grand Marais cut-channel from the north at station 26+70.		
Proposed Size / Units	ACRE-FEET/YR	Lifespan	25 Years
Actual Size/Units	12 ACRE-FEET/YR	Installed Date	

Activity Action - Rock chute near west grade stabilization structure

Practice	468 - LINED WATERWAY OR OUTLET	Count of Activities	8
Description	This chute is at the outlet of drainage that enters the Grand Marais Cut Channel from the north, just upstream of the western grade stabilization structure a station 8+47.		
Proposed Size / Units	ACRE-FEET/YR	Lifespan	25 Years
Actual Size/Units	21 ACRE-FEET/YR	Installed Date	

Activity Action - Rock chute on south bank, near east end of the project			
Practice	468 - LINED WATERWAY OR OUTLET	Count of Activities	8
Description	This rock chute enters the Grand Marais Cut Channel from the south at station 47+63, near the east end of the bank stabilization project.		
Proposed Size / Units	ACRE-FEET/YR	Lifespan	25 Years
Actual Size/Units	103 ACRE-FEET/YR	Installed Date	

Activity Action - South rock chute along the west side of CR64			
Practice	468 - LINED WATERWAY OR OUTLET	Count of Activities	8
Description	This rock chute stabilizes the outlet of the ditch that flows along CR64 and enters the Grand Marais Creek cut-channel from the south at station 27+50		
Proposed Size / Units	ACRE-FEET/YR	Lifespan	25 Years
Actual Size/Units	52 ACRE-FEET/YR	Installed Date	

Activity Action - Side water inlet			
Practice	587 - Structure for Water Control	Count of Activities	8
Description			
Proposed Size / Units	COUNT	Lifespan	25 Years
Actual Size/Units	1 COUNT	Installed Date	

Activity Action - Side water inlet east of CR64 near station 365			
Practice	587 - Structure for Water Control	Count of Activities	8
Description			
Proposed Size / Units	COUNT	Lifespan	25 Years
Actual Size/Units	1 COUNT	Installed Date	

Activity Action - Side water inlet on the east side of CR64 and N side of Grand Marais Creek			
Practice	587 - Structure for Water Control	Count of Activities	8
Description			
Proposed Size / Units	COUNT	Lifespan	25 Years
Actual Size/Units	1 COUNT	Installed Date	

Activity Action - South side water inlet along the east side of CR64			
Practice	587 - Structure for Water Control	Count of Activities	8
Description			
Proposed Size / Units	COUNT	Lifespan	25 Years
Actual Size/Units	1 COUNT	Installed Date	

Grant Activity - TA&E - Grand Marais Creek Cut-off Channel Stabilization

Description	The preliminary design, final design, and construction inspection for this project will be overseen by a professional engineer employed by Houston Engineering, Inc. With additional funding, the RLWD will be able to complete a final report in early 2011, start construction in 2011, and complete construction in early 2012. Operation and maintenance needs will be addressed by using local funds (RLWD or appropriate ditch authority). Side water inlets will be designed according to NRCS/FOTG standards.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	25-Mar-11	End Date	Wed Dec 26 00:00:00 CST 2012
Rates and Hours			
Actual Results	<p>Surveying was initially delayed for a while due to field conditions. The Red River was too high through much of the summer of 2011 for any surveying to get done right away. Houston Engineering was eventually able to complete the surveying and geotechnical work. Engineer Jeff Langan presented the Engineers Report for the Grand Marais Creek Cut Channel, RLWD Project No. 60FF to the Board for informational purposes at the February 9, 2012 meeting. Langan gave an overview of the project and answered questions of the Board. The Board then voted to approve the report. The RLWD Board voted to authorize Engineer Jeff Langan to prepare Plans and Specifications for the construction of the project. Plans and Specifications were completed in April 2012. Project specifications were published on March 30, 2012. RLWD and Houston Engineering staff gave a presentation on the project to the 2012 RRWMB/FDR Work Group Annual Conference. Houston Engineering hired a certified archaeologist to comply with the requirements of permitting through the U.S. Army Corps of Engineers. Houston Engineering and RLWD staff performed construction inspection and surveying throughout the project. Additional design work was needed to solve bank stabilization issues during construction. It was necessary to reapply for a USACE permit to expand the bank stabilization work to areas upstream and downstream of the bridge. The permit was issued and allowed the additional construction to start on November 16, 2012. Once the project was completed, a final hearing was held in January 2012. The final payment was then approved and made to Zavoral Construction.</p>		

Grant Activity - Tech. Assistance and Eng. - Grade Stabilization for Reduction of Sedimentation in the Thief River

Description	<p>The Marshall County Highway Department professional engineer and/or Jim Hest (PE) will develop the plans and specs for six grade stabilization structures that will be installed along Marshall County Ditch 20. Structures will be designed with 18 inches of fall from the top-of-the-rock on the upstream end to the top-of-the-rock on the downstream end. They will be placed along the ditch so that there is one grade stabilization structure for every 18 inches of fall based on NRCS FOTG. The Marshall County SWCD and the Red Lake Watershed District will assist the engineer with the implementation of this stabilization project. Either the Marshall County Highway Department professional engineer or Jim Hest (PE) will oversee the construction of the rock riffles.</p> <p>These funds will also be used to employ the services of Jim Hest, a Conservation Engineer, to design the side-water inlets and the bank stabilization site. He will also oversee the construction. The side-water inlet will be designed according to NRCS FOTG standards.</p>	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	End Date	
Rates and Hours		
Actual Results	<p>The Marshall County Highway Department's Engineer completed the plans for the project in early 2012 and then began working on preparing the specifications. The specifications were completed near the end of January or in very early February of 2012. An advertisement for bids was prepared and appeared in the local newspaper in early February.</p> <p>A webpage was developed for the project: http://www.redlakewatershed.org/tr_sediment.html</p> <p>Plans were completed by the Marshall County Engineer, Lon Aune.</p> <p>During construction, RLWD staff and the Marshall County Engineer conducted project inspection and surveying duties.</p>	

Grant Attachments

Document Name	Document Type	Description
2012 10 October Water Quality Report.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Addendum No. 1 2_28_12.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/19/2013
CD 20 Specifications 1_30_12.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
CD20 Preliminary Plans.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00241.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)

Document Name	Document Type	Description
DSC00243.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00244.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00247.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00248.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00249.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00253.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00255.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00256.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00258.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00259.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00260.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00261.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00262.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00263.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00264.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00267.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00268.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00269.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00270.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00271.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00272.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00273.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00276.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00277.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00282.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00283.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00292.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00294.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
DSC00297.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)

Document Name	Document Type	Description
DSC00301.JPG	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Grade Stabilization Structure Photo Mosaic.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Grade Stabilization Structures.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Legal plats rev 5-21-12.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Maintenance Agreement (ID 5822).pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
PLAT EXHIBIT-813_5_2012-06-27.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
PPT122811 Cutoff Ditch Slides.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Pay Estimate #1 14D.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Pay Estimate 2 - Final (ID 5484).pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Photo06291411.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Plans and Specs Grand Marais Crk Cut Channel.pdf	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Side Water Inlets Photo Mosaic.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Side Water Inlets Photo Mosaic.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Side Water Inlets.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Stream Bank Stabilization Site.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
Stream Bank Stabilization.jpg	Grant	2011 - Runoff Reduction - Red Lake WD (WSHED)
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