



Grant All-Detail Report 2012 - Clean Water Assistance

Grant Title - 2012 - Clean Water Assistance - Clearwater (SWCD)

Grant ID - C13-5437

Organization - Clearwater SWCD

Grant Awarded Amount	\$32,260.00	Grant Execution Date	
Required Match Amount	\$8,065.00	Grant End Date	1/1/2020
Required Match %	25%	Grant Day To Day Contact	Kathy Rasch

Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	\$31,038.48	\$17,356.89	\$13,681.59
Total Match Amount	\$13,145.60	\$4,763.53	\$8,382.07
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$44,184.08	\$22,120.42	\$22,063.66

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
2012 CWF Pine Lake Protection - Tim Nordlund	Agricultural Practices	Local Fund	RLWD	\$1,642.50			Y
2012 CWF Pine Lake Protection - Tim Nordlund	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$3,285.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
2012 CWF Pine Lake Protection - Tim Nordlund	Streambank or Shoreline Protection	Landowner Fund	Landowner match	\$1,642.50			Y
2012 CWF Pine Lake Protection-Darrell Boucher	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$5,551.57	\$5,551.57	7/18/2013	N
2012 CWF Pine Lake Protection-Darrell Boucher	Streambank or Shoreline Protection	Local Fund	FY-12 LRWRRP Landowner MATCH	\$2,187.00	\$1,850.52	7/18/2013	Y
2012 CWF Pine Lake Protection-Michael Solsten	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$3,093.00			N
2012 CWF Pine Lake Protection-Michael Solsten	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$1,032.00			Y
2012 CWF Pine Lake Protection-Roger Nelson	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$4,641.00			N
2012 CWF Pine Lake Protection-Roger Nelson	Streambank or Shoreline Protection	Landowner Fund	landowner match	\$1,547.00			Y
2012 CWF Pine Lake Protection-Royce Schulz	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$2,465.00			N
2012 CWF Pine Lake Protection-Royce Shultz	Streambank or Shoreline Protection	Landowner Fund	landowner match	\$1,232.50			Y
2012 CWF Pine Lake Protection-Royce Shultz	Streambank or Shoreline Protection	Local Fund	RLWD	\$1,232.50			Y
CWF 2012 Pine Lake Protection - Gretchen Beito	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$0.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
CWF 2012 Pine Lake Protection - Gretchen Beito	Streambank or Shoreline Protection	Local Fund	FY-12 LRWRRP Landowner MATCH	\$0.00			Y
CWF 2012 Pine Lake Protection 3	Streambank or Shoreline Protection						
CWF 2012 Pine Lake Protection 4	Streambank or Shoreline Protection						
CWF 2012 Side Water Inlets - Deborah L. Eck	Agricultural Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$451.80	\$451.80	11/21/2013	N
CWF 2012 Side Water Inlets - Deborah L. Eck	Agricultural Practices	Local Fund	FY-12 LRWRRP RLWD MATCH	\$150.60	\$150.60	11/21/2013	Y
CWF 2012 Side Water Inlets - Duane Rouland	Agricultural Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$1,933.65	\$1,933.65	11/21/2013	N
CWF 2012 Side Water Inlets - Duane Rouland	Agricultural Practices	Local Fund	FY-12 LRWRRP RLWD MATCH	\$697.00	\$644.25	11/21/2013	Y
CWF 2012 Side Water Inlets - James Sawyer	Agricultural Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$1,449.46	\$1,449.46	11/21/2013	N
CWF 2012 Side Water Inlets - James Sawyer	Agricultural Practices	Local Fund	FY-12 LRWRRP RLWD MATCH	\$522.00	\$483.16	11/21/2013	Y
FY-12 LRWRRP Administration	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$1,080.00	\$977.41	12/24/2013	N
FY-12 LRWRRP Amish Technical Assistance	Non-Structural Management Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$0.00			N
FY-12 LRWRRP Amish Technical Assistance	Non-Structural Management Practices	Local Fund	2012 County LWM match-LRW Assistance Grant	\$0.00			Y
FY-12 LRWRRP Amish Technical Assistance	Non-Structural Management Practices	Local Fund	FY-12 LRWRRP Landowner MATCH	\$0.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
FY-12 LRWRRP Pine Lake Shoreline Protection	Non-Structural Management Practices						
FY-12 LRWRRP Project Development	Project Development	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$1,740.00	\$1,522.50	12/24/2013	N
FY-12 LRWRRP Project Development	Project Development	Local Fund	2012 County LWM match-LRW Assistance Grant	\$1,260.00	\$1,635.00	12/24/2013	Y
FY-12 LRWRRP Side Inlet/Grade Stabilizations	Non-Structural Management Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$0.00			N
FY-12 LRWRRP Side Inlet/Grade Stabilizations	Non-Structural Management Practices	Local Fund	FY-12 LRWRRP Landowner MATCH	\$0.00			Y
FY-12 LRWRRP Side Inlet/Grade Stabilizations	Non-Structural Management Practices	Local Fund	FY-12 LRWRRP RLWD MATCH	\$0.00			Y
FY-12 LRWRRP Technical Assistance and Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Clean Water Assistance - Clearwater (SWCD)	\$5,348.00	\$5,470.50	12/12/2013	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
580 - Streambank and Shoreline Protection	4	1	0 LINEAR FEET
410 - Grade Stabilization Structure	6	1	0 COUNT
580 - Streambank and Shoreline Protection	1	1	80 LINEAR FEET

Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	15.79	TONS/YR

SOIL (EST. SAVINGS)	5.5	TONS/YR
PHOSPHORUS (EST. REDUCTION)	13.41	LBS/YR

Grant Activity

Grant Activity - 2012 CWF Pine Lake Protection - Tim Nordlund		
Description	2012 CWF Pine Lake Protection - Tim Nordlund	
Category	AGRICULTURAL PRACTICES	
Start Date		End Date
Rates and Hours		
Actual Results		

Grant Activity - 2012 CWF Pine Lake Protection - Tim Nordlund		
Description	2012 CWF Pine Lake Protection - Tim Nordlund	
Category	STREAMBANK OR SHORELINE PROTECTION	
Start Date		End Date
Rates and Hours		
Actual Results		

Grant Activity - 2012 CWF Pine Lake Protection - Tim Nordlund		
Description	2012 CWF Pine Lake Protection - Tim Nordlund	
Category	STREAMBANK OR SHORELINE PROTECTION	
Start Date		End Date
Rates and Hours		
Actual Results		

Grant Activity - 2012 CWF Pine Lake Protection-Darrell Boucher			
Description	Darrell Boucher owns one of many shoreline sites experiencing significant erosion on a yearly basis. Darrell has chosen to protect his shoreline with rock rip rap as designed by William Westerberg P.E. of the Joint Powers Board. An upland native buffer will be designed by Kathy Rasch, Clearwater Soil and Water Conservation District Manager who has TAA approval for Critical Area Stabilization, Upland Vegetation Establishment. Installed native buffer will be inspected by Kathy Rasch.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results	The first phase of the project was completed 21/12/12 with the installation of the rip rap. The buffer is planned for the spring of 2013.		

Activity Action - Legacy Migrated Data			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Rock rip rap was installed late November of 2012. The landowner completed the upland buffer early summer of 2013.		
Proposed Size / Units	80 LINEAR FEET	Lifespan	15 Years
Actual Size/Units	80 LINEAR FEET	Installed Date	1-Jul-13

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4.68
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Pine Lake		

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	5.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Pine Lake		

Final Indicator for Legacy Migrated Data			
Indicator Name	SOIL (EST. SAVINGS)	Value	5.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Pine Lake		

Grant Activity - 2012 CWF Pine Lake Protection-Michael Solsten			
Description	2012 CWF Pine Lake Protection-Michael Solsten		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results			

Activity Action - Rock Rip Rap			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	50 LINEAR FEET	Lifespan	15 Years
Actual Size/Units	LINEAR FEET	Installed Date	

Grant Activity - 2012 CWF Pine Lake Protection-Roger Nelson			
Description	2012 CWF Pine Lake Protection-Roger Nelson		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results			

Activity Action - Lakeshore Protection- Rip-rap			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Rip rap on eroding shoreline		
Proposed Size / Units	75 LINEAR FEET	Lifespan	15 Years
Actual Size/Units	LINEAR FEET	Installed Date	

Grant Activity - 2012 CWF Pine Lake Protection-Royce Schulz			
Description	2012 CWF Pine Lake Protection-Royce Schulz		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results			

Activity Action - Lakeshore Protection-Rip-Rap			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	55 LINEAR FEET	Lifespan	15 Years
Actual Size/Units	LINEAR FEET	Installed Date	

Grant Activity - 2012 CWF Pine Lake Protection-Royce Shultz			
Description	2012 CWF Pine Lake Protection-Royce Shultz		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results			

Grant Activity - CWF 2012 Pine Lake Protection - Gretchen Beito			
Description	Gretchen Beito owns one of many shoreline sites experiencing significant erosion on a yearly basis. Gretchen has chosen to protect her shoreline with rock rip rap as designed by William Westerberg P.E. of the Joint Powers Board. An upland native buffer will be designed by Kathy Rasch, Clearwater Soil and Water Conservation District Manager who has TAA approval for Critical Area Stabilization. Installed native buffer will be inspected by Kathy Rasch.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results	Project has been designed and put up for bids. Construction is expected to start before March 15, 2013.		

Activity Action - Legacy Migrated Data			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	LINEAR FEET	Lifespan	15 Years
Actual Size/Units	LINEAR FEET	Installed Date	

Grant Activity - CWF 2012 Pine Lake Protection 3			
Description			
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results			

Grant Activity - CWF 2012 Pine Lake Protection 4			
Description			
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Rates and Hours			
Actual Results			

Grant Activity - CWF 2012 Side Water Inlets - Deborah L. Eck			
Description	The Clearwater Soil & Water Conservation District has worked with the Red Lake Watershed District (RLWD) to identify priority sites that can be addressed by side water inlets. Gary Lane of the Red Lake Watershed District will complete designs of these projects with Jim Hest P.E. approval. One side water inlet will be installed at this site.		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	RLWD engineering staff have completed plans for the installation of the side water inlet due to be installed spring of 2013.		

Activity Action - Legacy Migrated Data			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description			
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	.99
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.84
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Grant Activity - CWF 2012 Side Water Inlets - Duane Rouland			
Description	The Clearwater Soil & Water Conservation District has worked with the Red Lake Watershed District (RLWD) to identify priority sites that can be addressed by side water inlets. Three sites exist on this landowners property. Gary Lane of the Red Lake Watershed District will complete designs of these projects with Jim Hest P.E. approval. One side water inlet will be installed at this site.		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	The three side water inlets have been designed by RLWD engineering staff. Installation is scheduled to be completed spring of 2013.		

Activity Action - Legacy Migrated Data			
Practice	410 - Grade Stabilization Structure	Count of Activities	3
Description			
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.17
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	1.38
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Activity Action - Legacy Migrated Data			
Practice	410 - Grade Stabilization Structure	Count of Activities	3
Description			
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	2.69
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.28
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Activity Action - Legacy Migrated Data			
Practice	410 - Grade Stabilization Structure	Count of Activities	3
Description			
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	1.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.88
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Grant Activity - CWF 2012 Side Water Inlets - James Sawyer			
Description	This project includes the installation of two side water inlets that enter a public drainage ditch system. Side inlets will be installed in cooperation with the Red Lake Watershed District (RLWD). The RLWD will provide TA in the engineering of these structures as well as provide matching funds for the installation of the side water inlets.		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	Engineering plans have been completed by the RLWD and sites are ready for installation spring of 2013.		

Activity Action - Legacy Migrated Data			
Practice	410 - Grade Stabilization Structure	Count of Activities	2
Description			
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.76
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	3.25
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Activity Action - Legacy Migrated Data			
Practice	410 - Grade Stabilization Structure	Count of Activities	2
Description			
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	.94
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.80
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lost River		

Grant Activity - FY-12 LRWRRP Administration	
Description	The Clearwater SWCD District Manager will be responsible for all eLINK, website, and final reporting documents for the project. The Clearwater SWCD district manager will coordinate the project and provide the data to the Office Manager to complete all BWSR reporting requirements.
Category	ADMINISTRATION/COORDINATION
Start Date	End Date
Rates and Hours	
Actual Results	<p>1/4/13 - Administration to date has included the work plan revision and subsequent reporting as approved by BWSR BC, Chad Severts, the documentation and financial tracking of 23 SWCD staff hours expended, and the payments made for engineering on the Boucher and Beito Pine Lake projects and partial payment to Boucher for installation expense of the first phase of the project.</p> <p>2013 administration and coordination time of 7.5 hours to complete reporting requirements in elink and our webpage, tracking and billing of SWCD staff hours spent on the grant, and processing payments on completed projects and engineering fees.</p>

Grant Activity - FY-12 LRWRRP Amish Technical Assistance	
Description	The SWCD will provide technical assistance to an Amish family on the Lost River to install a riparian buffer to protect and stabilize 2100 feet of streambank by excluding livestock and restoring vegetation. No state dollars will be applied toward the project.
Category	NON-STRUCTURAL MANAGEMENT PRACTICES
Start Date	End Date Thu Oct 25 00:00:00 CDT 2012
Rates and Hours	
Actual Results	The landowner has decided not to install the buffer at this time and will not be in need of technical assistance.

Grant Activity - FY-12 LRWRRP Pine Lake Shoreline Protection		
Description	Install 375ft of shoreline protection with native plant buffers and or rip-rap.	
Category	NON-STRUCTURAL MANAGEMENT PRACTICES	
Start Date		End Date
Rates and Hours		
Actual Results	The first lakeshore project has been partially installed. The landowner consented to the installation of 85' of rip-rap to protect his site. An upland buffer has been designed and will be established on the site this spring. A second plan and contract has been established on another site in need of protection. The landowner has sent out a request for bids from contractors to install the rip rap this spring with upland buffer to follow in spring.	

Grant Activity - FY-12 LRWRRP Project Development		
Description	Landowner outreach and education targeting landowners on 25% of parcels of high priority soil and water resource concerns to elicit participation in installing grade stabilization structures, shoreline protection BMPs, and future implementation of BMP practices. These efforts will lead to the SWCD setting up landowner contracts.	
Category	PROJECT DEVELOPMENT	
Start Date		End Date
Rates and Hours		
Actual Results	<p>1/4/13 - too date, 46 SWCD staff hours have been utilized to target landowners and secure project contracts with 3 landowners for 6 side inlet contracts and 2 contracts with landowners for 2 shoreline protection projects. Project development efforts with the Borntrager landowner were unsuccessful, resulting in the work plan revision approved in October, 2012. Outreach has been conducted to with the Pine Lake Lake association including presentation at an Association meeting and articles in their newsletter.</p> <p>2013 - 20 SWCD staff hours spent on project development activities. Results include the initiation of 4 more projects on Pine Lake, with contracts in place to protect 260 ft of shoreline. A previous contract with one landowner was cancelled due to landowner wishes. Other project development activites were preparing 2 publicity articles on the Pine Lake project completed in 2013, for printing in our newsletters, and developing a display on the Pine Lake protection outreach efforts for our booth at the County Fair.</p>	

Grant Activity - FY-12 LRWRRP Side Inlet/Grade Stabilizations		
Description	Install a minimum of 6 side inlet grade stabilization structures on cropland adjacent to public drainage ditches.	
Category	NON-STRUCTURAL MANAGEMENT PRACTICES	
Start Date		End Date
Rates and Hours		
Actual Results	Sites for 6 side water inlets have been identified. Three willing landowners have signed contracts to install these six side water inlets. Site have been surveyed and designed and will be installed spring of 2013.	

Grant Activity - FY-12 LRWRRP Technical Assistance and Engineering		
Description	The Clearwater SWCD Technician (Nathan Nordlund) and District Manager (Kathy Rasch) will assist the Technical Service Area Engineer (TSA) with survey work. Design work will be completed by the Joint Powers Board licensed professional engineer. Kathy Rasch will provide Technical Approval Authority for vegetative practices including shoreline buffers and vegetation planting recommendations. Kathy Rasch has 7 years of experience planning vegetative practices. All technical approval authority documents are available upon request.	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date		End Date
Rates and Hours		
Actual Results	Nathan Nordlund has assisted the TSA JPB engineer with surveys of 2 Pine lake sites and TSA JPB has completed the plans for those projects. Kathy Rasch has completed the vegetative buffer designs for these 2 sites. Nathan has also assisted RLWD engineering technician with the survey and design of the 6 side water inlets. 2013 - 6 side water inlets were constructed and installed according to JPB designs, 4 Pine Lake shoreline sites were surveyed and plans developed by the JPB engineering team. Nathan Nordlund provided assistance to the engineers in the survey process and the installation phase. Kathy Rasch reviewed the buffer installation project completed on the Boucher Pine Lake site.	

Grant Attachments

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/31/2014
grant_app_general-added.rpt	Grant	2012 - Clean Water Assistance - Clearwater (SWCD)
grant_app_general.rpt	Grant	2012 - Clean Water Assistance - Clearwater (SWCD)

