



Grant All-Detail Report Projects and Practices 2015

Grant Title - Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017

Grant ID - C15-6848

Organization - Carnelian-Marine-St. Croix WD

Original Awarded Amount	\$108,431.00	Grant Execution Date	4/10/2015
Required Match Amount	\$27,107.75	Original Grant End Date	12/31/2018
Required Match %	25%	Grant Day To Day Contact	Jim Shaver
Current Awarded Amount	\$108,431.00	Current End Date	12/31/2019

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$108,431.00	\$108,431.00	\$0.00
Total Match Amount	\$114,752.25	\$106,506.72	\$8,245.53
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$223,183.25	\$214,937.72	\$8,245.53

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

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Administration	Administration /Coordination	Local Fund	CMSCWD Budget	\$1,310.00	\$1,310.00	12/4/2017	Y
Development	Project Development	Local Fund	CMSCWD	\$3,263.50	\$3,263.50	2/4/2016	Y
Development	Project Development	Local Fund	In-Kind	\$1,171.25	\$1,171.25	9/13/2016	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Goose Lake Bioretention and IESF Construction	Urban Stormwater Management Practices	Current State Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation ..	\$108,301.00	\$108,301.00	12/12/2018	N
Goose Lake Bioretention and IESF Construction	Urban Stormwater Management Practices	Federal Funds	319 Grant	\$76,000.00	\$52,125.23	12/12/2018	Y
Goose Lake Launch IES Engineering	Technical/Engineering Assistance	Local Fund	CMSCWD	\$20,541.00	\$41,195.24	12/13/2018	Y
Olinda Lane IES Engineering	Technical/Engineering Assistance	Local Fund	CMSCWD	\$9,536.00	\$4,511.00	3/21/2016	Y
Olinda Lane IESF Engineering	Project Development	Local Fund	CMSCWD	\$2,930.50	\$2,930.50	6/28/2017	Y
Olinda Trl/Parrish Sand Filter Engineering	Technical/Engineering Assistance	Current State Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation ..	\$130.00	\$130.00	10/7/2016	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
712M - Bioretention Basin	1	1	0.16 AC	0.16 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Olinda Lane IESF	PHOSPHORUS (EST. REDUCTION)	1.1 LBS/YR	Goose Lake	Other	Simple Method
Goose Lake Launch IESF	PHOSPHORUS (EST.	1.14 LBS/YR	Goose	Other	Simple Method

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
	REDUCTION)				
Olinda Trail/Parrish Sand Filter	PHOSPHORUS (EST. REDUCTION)	3.42 LBS/YR	Goose	Other	Simple Method
Olinda Lane Ravine Stabilization	PHOSPHORUS (EST. REDUCTION)	11.14 LBS/YR	Goose	Other	Simple Method
Olinda Lane IESF	SEDIMENT (TSS)	.4 TONS/YR	Goose Lake	Other	Simple Method
Goose Lake Launch IESF	SEDIMENT (TSS)	.2 TONS/YR	Goose	Other	Simple Method
Olinda Trail/Parrish Sand Filter	SEDIMENT (TSS)	1.25 TONS/YR	Goose	Other	Simple Method
Olinda Lane Ravine Stabilization	SEDIMENT (TSS)	11 TONS/YR	Goose	BWSR CALC (GULLY STABILIZATION)	

Final Indicators Summary

Indicator Name	Total Value	Unit
PHOSPHORUS (EST. REDUCTION)	35.00	LBS/YR

Grant Activity

Grant Activity - Administration	
Description	<p>These four originally proposed projects have been replaced with a single project are in the Goose Lake Watershed, the District's top priority Impaired Lake. It will reduce P inputs into the lake by 35 lbs/yr. and 2.5 TNS/yr. CMSCWD Administrator Jim Shaver (Manager) will be over-all project manager and will coordinate and be responsible for:</p> <ol style="list-style-type: none"> 1) Interim Reporting 2) Record Keeping 3) Final Reporting 4) Scheduling 5) Communication and Coordination 6) Assurances <p>CMSCWD will use MMC communications consultants for outreach and web updates and press releases to communicate project progress to the wider community. CMSCWD will be responsible for obtaining property owners assurances per the attached agreement</p> <p>Shaver has an MBA degree from the University of St. Thomas and has been involved in water management administering grants in the area in both non-profit and local government positions for 17 years. He has been CMSCWD Administrator since 2008.</p> <p>Shaver has an undergraduate degree in Architecture and ran his own design/build company for 5 years and is experienced with construction observation on projects over \$600,000.</p> <p>The four projects called for in the original work plan were replaced with a single project Goose Lake IESF on the St. Sauver Farm which exceed's the nutrient reduction previously proposed. The project will be funded with CWF grant funding combined with funding through a MPCA 319 grant.</p>
Category	ADMINISTRATION/COORDINATION
Start Date	13-Apr-15
End Date	
Has Rates and Hours?	Yes
Actual Results	<p>2016 Results:</p> <ol style="list-style-type: none"> 1. Grant reporting 2. Acquiring Easement at Olinda Lane IESF <p>2017 Results:</p> <ol style="list-style-type: none"> 1. Grant administration reporting and website updates 2. Negotiating easement with 2nd property owner at Olinda La. IESF with no progress 3. Exploring possibilities of proceeding without 2nd easement

4. Working with WCD and EOR to transition engineering at Goose Lake Landing IESF to EOR

5. Begin negotiations for easment acquisition at Goose Lake Landing IESF

6. Re-evaluate Parish sand filter

October 17, 2018: The project has been bid and let at approximately \$181,000 for construction this winter to be completed in 2019.

December 31, 2018 year end report:

The project is substantially complete with final planting anticipated in the spring and summer of 2019

Grant Activity - Development			
Description	<p>1.) CMSCWD Administrator Jim Shaver in conjunction with the Washington Conservation District and East Metro Watershed Resources Education Program (EMWREP) will conduct joint and individual meetings with property owners.</p> <p>2) CMSCWD will contract with the WCD for the balance of surveying, easement preparation, and feasibility per the attached proposal</p>		
Category	PROJECT DEVELOPMENT		
Start Date	13-Apr-15	End Date	11-Dec-18
Has Rates and Hours?	Yes		
Actual Results	<p>2015 Activity Results:</p> <ol style="list-style-type: none"> 1. Additional Investigation of Practices locations 2.. Interviews with landowners 3. Reprioritization of practices based on above 4. Monitoring of lower ranked sites 5. Review of concept and approval by landowners. <p>2016 Activities:</p> <ol style="list-style-type: none"> 1. Drafting and Presentation of Assurance agreement and easement documents 2. Signing of Easement documents for Olinda Lane IESF for 1 out of two property owners. Attempts continue for agreement with second property owner 3. Presentation and Preliminary Design approval by landowner Olinda Lane IESF 4. Further Discussions with Landowners at Olinda Ravine and Parrish Road Project 5. Research into ownership of property at Goose Lake Landing and discussion with City 6. Preparation of landscaping design and planting plan for Olinda Lane IESF 7. Presentation and approval of final plan <p>2017 Activities:</p> <p>None</p> <p>October 17, 2018: The original four projects for this grant were found to be either not feasible or less cost effective in comparison to a single project, the Goose Lake IESF, located on the St. Sauver Farm which exceeds the nutrient reduction originally proposed for all four projects. The project has been bid and let at approximately \$181,000 for construction this winter to be completed in 2019.</p> <p>12/17/2018 Project is substantial complete with final seeding and planting to be completed in Spring of 2019</p> <p>12/31/2018 year end: see above for status</p>		

Grant Activity - Goose Lake Bioretention and IESF Construction			
Description	Goose Lake Bioretention IESF Construction: Construction labor and materials for the filter project. Construction administration/observation will be provided by EOR. Construction is anticipated the final year of the grant. Total load reduction is estimate at 35.0 lbs. TP/yr and TSS of 2.5 TNS/yr per year.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	1-Apr-18	End Date	
Has Rates and Hours?	No		
Actual Results	<p>8/22/2018: Easement was approved and signed by the CMSCWD Board and landowner.</p> <p>9/12/2018: Construction documents were approved for bid by the CMSCWD board.</p> <p>10/10/2018: Project was awarded by the CMSCWD at their October 10, 2018 Board Meeting.</p> <p>11/1/2018: Preconstruction meeting on site with contractor GL Jedlicki</p> <p>11/5/2018: Construction Start</p> <p>11/21/2018: Construction Substantial complete with balance of seeding planting scheduled for spring of 2019</p> <p>12/17/2018: The Watershed District will be performing inspections, monitoring and maintenance through the life of this project</p> <p>12/31/2018: See above for status as of year end</p>		

Activity Action - St. Sauver Bioretention and IESF			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	Bioretention basin and IESF capturing and treating runoff from the farmsted and draintile from the agricultural fields.		
Proposed Size / Units	0.16 AC	Lifespan	30 Years
Actual Size/Units	0.16 AC	Installed Date	31-Dec-18
Mapped Activities	1 Point(s)		

Final Indicator for St. Sauver Bioretention and IESF			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	35
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Goose Lake		

Grant Activity - Goose Lake Launch IES Engineering

Description	Goose Lake Launch IES Engineering: Engineering services will be changed from WCD to EOR with increased cost. Staff qualifications are detailed in the attached letter. Contract will include feasibility and preliminary design, final design, specifications and bidding. Urban Stormwater Management BMPs will be designed to meet or exceed the design criteria identified in the Minnesota Stormwater Manual and will include current media performance specifications and a requirement that media test results be submitted by contractor for engineering approval prior to installation.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	15-Apr-15	End Date	
Has Rates and Hours?	No		
Actual Results	<p>2017 Activities:</p> <ol style="list-style-type: none">1. Monitoring at alternative location for this practice2. Site evaluation and survey3. Transfer design responsibilities from WCD to EOR at the request of WCD3. Prepare concept design <p>2018 Activities entered in support of interim reporting with pay request:</p> <p>October 17, 2018: The design has been completed and project has been bid and let.</p> <p>12/17/2018 Clarification: This practice is the same as the Goose Lake Bio retention and IESF.</p> <p>12/31/2018 year end report:</p> <p>Project is substantially complete with all construction inspection and supervision expenses entered through 12/31/2018.</p> <p>There will be further expenses for construction supervision and inspection of final planting through summer of 2019 as well as calibration of IESF flow settings and review and approval of final contractor invoices,</p>		

Grant Activity - Olinda Lane IES Engineering

Description	Olinda Lane IES Engineering: Engineering services will be changed from WCD to EOR with substantial re-design. Staff qualifications are detailed in the attached letter. Contract will include feasibility, preliminary design, final design, specifications and bidding. Urban Stormwater Management BMPs will be designed to meet or exceed the design criteria identified in the Minnesota Stormwater Manual and will include current media performance specifications and a requirement that media test results be submitted by contractor for engineering approval prior to installation.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	15-Apr-15	End Date	17-Dec-18
Has Rates and Hours?	No		
Actual Results	2015 Activity Results: 1. Washington Conservation District surveyed Arcola Lane site for IESF 2. Feasibility and preliminary design work of Olinda Lane IESF 3. Further investigation of Parrish Ave sitl 2016 Activity Results: 1. Development of final plans and documents for Olinda Lane IESF 2. Completion and review of 90% plan set October 17, 2018: This project proved not feasible and was replaced the Goose Lake IESF.		

Grant Activity - Olinda Lane IESF Engineering			
Description	Project Development and Engineering		
Category	PROJECT DEVELOPMENT		
Start Date	8-May-14	End Date	17-Dec-18
Has Rates and Hours?	No		
Actual Results	<p>2015 Activity Results:</p> <ol style="list-style-type: none"> 1. Washington Conservation District surveyed Arcola Lane site for IESF 2. Feasibility and preliminary design work of Olinda Lane IESF 3. Further investigation of Parrish Ave site <p>2016 Activity Results:</p> <ol style="list-style-type: none"> 1. Development of final plans and documents for Olinda Lane IESF 2. Completion and review of 90% plan set <p>2017 Activities:</p> <ol style="list-style-type: none"> 1. Bid practice and evaluate bids 2. redesign to conform to utility easement 3. Discussions with neighboring property owner concerning easement <p>October 17, 2018: This project proved not feasible (due to property owner change of mind) and was replaced the Goose Lake IESF.</p>		

Grant Activity - Olinda Trl/Parrish Sand Filter Engineering

Description	Olinda Trl/Parrish Sand Filter Engineering services will be changed from WCD to EOR resulting in some increase in costs. Staff qualifications are detailed in the attached letter. Contract will include feasibility, preliminary design, final design, specifications and bidding. Urban Stormwater Management BMPs will be designed to meet or exceed the design criteria identified in the Minnesota Stormwater Manual and will include current media performance specifications and a requirement that media test results be submitted by contractor for engineering approval prior to installation.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	15-Apr-15	End Date	11-Dec-18
Has Rates and Hours?	No		
Actual Results	2016 Results- 1. Delineated subwatershed to determine potential loading 2. Grab sample analysis 3. Lack of required drop for IESF may require plan revisions or deletion of project October 17, 2018: This project proved not feasible and was replaced the Goose Lake IESF.		

Grant Attachments

Document Name	Document Type	Description
2015 Competitive Grant	Grant Agreement	2015 Competitive Grant - Carnelian-Marine-St. Croix WD
2015 Competitive Grant amendment EXECUTED	Grant Agreement Amendment	
2015 Competitive Grant executed	Grant Agreement	2015 Competitive Grant - Carnelian-Marine-St. Croix WD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/12/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/28/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/04/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/17/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/05/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/01/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/25/2017

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/02/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/01/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/29/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/02/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/29/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/29/2015
Application	Workflow Generated	Workflow Generated - Application - 09/26/2014
BC Work Plan Comments 04-08-2015	Journal	Journal Dated - 04/08/2015
Bid Award	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Bid Award Recommendation	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Bid List	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
CMSCWD Minutes Approving Contractor Payment	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Financial Report 12/17/2018	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Goose Lake Newsletter	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
MPCA/EPA319 Goose Lake Grant Agreement	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Olinda Lane IESF Site Survey	Progress	Progress Dated - 07/29/2015
Olinda Lane Residents, Support Letter	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Owner's Assurance	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Pay Request and Approval #1	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Practice Siting	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017

Document Name	Document Type	Description
Request to revise work plan and extend grant agreement	Journal	Journal Dated - 08/24/2018
St. Sauver (Goose Lake) Easement Doc #1	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
St. Sauver (Goose Lake) Easement Doc. #2	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
St. Sauver (Goose Lake) Easement Doc. #3	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Unexecuted Grant Amendment	Grant Agreement Amendment	
WCD Project Assistance Proposal	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/28/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/30/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 08/24/2018
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 04/08/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 10/26/2018
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 10/19/2018
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 09/10/2018
grantmap_12829_2014-09-26_01-19-04-PM.jpg	Grant	Carnelian Marine St Croix Priority Lake TMDL Implementation – 75 Pound Phosphorus Load Reduction by 2017