



# Grant All-Detail Report

## Watershed Based Funding Metro 2019

**Grant Title** - 2019 - Watershed Based Funding Metro (Browns Creek WD)

**Grant ID** - P19-3256

**Organization** - Browns Creek WD

<b>Original Awarded Amount</b>	<b>\$78,760.00</b>	<b>Grant Execution Date</b>	<b>10/16/2018</b>
<b>Required Match Amount</b>	\$7,876.00	<b>Original Grant End Date</b>	12/31/2022
<b>Required Match %</b>	10%	<b>Grant Day To Day Contact</b>	Karen Kill
<b>Current Awarded Amount</b>	\$78,760.00	<b>Current End Date</b>	12/31/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$78,760.00	\$78,760.00	\$0.00
Total Match Amount	\$8,096.00	\$15,434.51	\$-7,338.51
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$86,856.00</b>	<b>\$94,194.51</b>	<b>\$-7,338.51</b>

*\*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
Construction	Streambank or Shoreline Protection	Current State Grant	2019 - Watershed Based Funding Metro (Browns Creek WD)	\$58,248.00	\$58,248.00	12/2/2022	N
Design and Construction Oversight	Technical/Engineering Assistance	Current State Grant	2019 - Watershed Based Funding Metro (Browns Creek WD)	\$20,512.00	\$20,512.00	12/31/2021	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Design and Construction Oversight	Technical/Engineering Assistance	Local Fund	BCWD Inkind Match	\$8,096.00	\$15,434.51	12/14/2022	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	1	3	2400 LINEAR FEET	2400 LINEAR FEET

### Proposed Activity Indicators

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

Indicator Name	Total Value	Unit
<b>TEMPERATURE</b>	0.60	DEGREES C

## Grant Activity

### Grant Activity - Construction

#### Description

Project implementation to restore 2400 linear feet of Brown's Creek: construction, plant materials and installation, establishment.

Based on thermal modeling results of the Riparian Shading Study, the cumulative benefits of implementing all four proposed projects (sites 10B, 11, 12, and 13) is a reduction in the monthly mean stream temperatures in Brown's Creek ranging from 0.2-0.6 degrees Celcium June-August from Manning Ave to the confluence with the St. Croix River. The reduction in stream temperatures could lower the stream temperatures just below the thermal stress threshold for trout, thereby allowing for potential population expansion, natural reproduction, and increased survival of trout upstream of the gorge. This grant would be to implement two of these projects. Site 10B is currently at 56% shade and will have potential future shade of 84%. Site 11 has 49% existing shade and will have potential future shade of 80%. Shade will be measured by hemispherical photographs and analyzing the photographs in WinSCANOPY to determine improvements in annual shading. Ongoing thermal monitoring will determine success in reducing monthly mean stream temperatures.

Ongoing biological monitoring for fish and macroinvertebrates to determine success in achieving TMDL goals regarding coldwater assemblage in Brown's Creek.

#### Category

STREAMBANK OR SHORELINE PROTECTION

#### Start Date

1-Nov-21

#### End Date

14-Dec-22

#### Has Rates and Hours?

No

#### Actual Results

Restored 2,400 linear feet of Brown's Creek riparian native vegetation by removing invasive woody species (such as buckthorn) over 23.6 acres of riparian area and strategically planting 60 native trees and 120 shrubs to shade the trout stream while allowing understory to stabilize stream banks.

Contracted with MN Native Landscapes. Signs created and posted on site. Clearing of woody invasive species began November 2021. Woody invasive removed completed 2022 because of a nesting pair of bald eagles and could not get to area in 2021. Planting completed fall 2022.

Activity Action - Brown's Creek Riparian Shade Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Millbrook HOA property reaches 10B and 11		
Proposed Size / Units	2,400.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	2,400.00 LINEAR FEET	Installed Date	14-Dec-22
Mapped Activities	3 Line(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Brown's Creek Riparian Shade Restoration			
Indicator Name	TEMPERATURE	Value	0.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) DEGREES C	Calculation Tool	Other
Waterbody	Browns Creek		

## Grant Activity - Design and Construction Oversight

<b>Description</b>	<p>Planning, Design, Cooperative Agreement with Landowner, permitting, bidding and contracting, and construction oversight</p> <p>To be completed by both Karen Kill, BCWD Administrator regarding permitting, cooperative agreements and contracting.</p> <p>Design, bidding and construction oversight, and preparation of an O&amp;M plan by District engineers.</p>		
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE		
<b>Start Date</b>	1-Jun-19	<b>End Date</b>	14-Dec-22
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	<p>2018-Met with Millbrook HOA Board to develop a cooperative agreement. Working with BCWD legal to draft.</p> <p>2019-Cooperative Agreement with Stillwater has been drafted and executed by all parties.</p> <p>2019- Cooperative Agreement has been drafted and submitted to Millbrook HOA for execution. HOA Board changed and item was not included for execution at annual meeting. Working with HOA to get agreement approved.</p> <p>2019- Design has been completed and is ready to seek quotes as soon as agreement is executed.</p> <p>2020- December resumed conversations with Millbrook HOA.</p> <p>2021-Completed agreement with Millbrook HOA. Put together package to seek quotes, held onsite pre-quote meeting, assisted in contracting with MNL, created project signage for onsite along walking trail to inform HOA and community and website. Oversight of work beginning late fall/early winter.</p> <p>2022-Oversight of project work. Delays due to eagle nest and dry weather.</p>		

## Grant Attachments

Document Name	Document Type	Description
<b>2019 WBIF Metro amendment EXECUTED</b>	Grant Agreement Amendment	
<b>2019 Watershed Based Funding Metro</b>	Grant Agreement	2019 Watershed Based Funding Metro - Browns Creek WD

Document Name	Document Type	Description
<b>2019 Watershed Based Funding Metro EXECUTED</b>	Grant Agreement	2019 Watershed Based Funding Metro - Browns Creek WD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/12/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/28/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 06/23/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 05/14/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/31/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/15/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/23/2023
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/23/2023
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/23/2023
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/20/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/17/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2022
<b>Final Financial Report</b>	Grant	2019 - Watershed Based Funding Metro (Browns Creek WD)
<b>Financial Summary and Supporting Invoices</b>	Grant	2019 - Watershed Based Funding Metro (Browns Creek WD)
<b>Grant Amendment Request for Extension of Expiration Date</b>	Journal	Journal Dated - 07/23/2021
<b>Millbrook HOA agreement</b>	Grant	2019 - Watershed Based Funding Metro (Browns Creek WD)
<b>P19-3256 Grant Amendment</b>	Grant Agreement Amendment	
<b>Riparian Shading Feasibility Report</b>	Grant	2019 - Watershed Based Funding Metro (Browns Creek WD)
<b>Stillwater Agreement</b>	Progress	Progress Dated - 01/31/2020
<b>Washington Co Final Project List</b>	Grant	2019 - Watershed Based Funding Metro (Browns Creek WD)
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 09/28/2018
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 09/11/2018