

# Wirth Lake Outlet Modification Project



This project is partially funded through a [Clean Water Fund Grant](#), which is administered through the [Minnesota Board of Water and Soil Resources](#) (BWSR). Additional information can be found in the [Clean Water, Land and Legacy Story](#) for this project.

**Table 1. Project Budget**

Funding Source	Budgeted Amount	Grant Expenditures
Clean Water Fund Grant	\$75,000	\$75,000
Local Match	\$175,000	\$113,710.05
Total	\$250,000	\$188,710.05

## Project Description

The *Wirth Lake TMDL Implementation Plan* (MPCA, 2010) includes modifying the Wirth Lake outlet structure to prevent flow from Bassett Creek to Wirth Lake during flood periods. This modification is estimated to reduce phosphorus loading to the lake by an average of 55 pounds per year (*Wirth Lake Excess Nutrients Total Maximum Daily Load Report*, MPCA, 2010). Based on analysis of historic data, the modification of the Wirth Lake outlet will be required to achieve the annual load reductions prescribed in the TMDL allocations. The reductions in phosphorus that would be achieved are estimated to be sufficient to meet the water quality goals for the lake. In July 2011 the Bassett Creek Watershed Management Commission (BCWMC) completed a feasibility study regarding modifications to the Wirth Lake outlet structure to include backflow prevention. The study recommended installation of a rubber check valve. In September 2011 the BCWMC ordered construction of the project by the City of Golden Valley.

The modifications to the existing outlet will not significantly raise flood levels in the creek and surrounding areas, will require little maintenance, and will provide reliable operation. The resulting structure will not change the normal water level of the lake and will maintain the outflow capacity of the unmodified outlet.

## Project Timeline

The Wirth Lake Outlet Modification project received a Clean Water Fund grant in 2011. Construction on the new outlet began in spring 2012 and was substantially completed in November 2012. The project was officially completed in spring 2013 and the BCWMC reimbursed the City of Golden Valley for project costs in November 2013.

## Project Photos



Old Wirth Lake Outlet, March 2012.



Old Wirth Lake Outlet, March 2012.



Old Wirth Lake Outlet, March 2012.



New Wirth Lake Outlet with skimmer, October 2013



Rubber check valves installed inside new outlet structure, October 2013

## Amy R. Mikus

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**From:** Amy R. Mikus  
**Sent:** Tuesday, February 11, 2014 2:45 PM  
**To:** 'Wozney, Brad (BWSR)'  
**Subject:** RE: 2011 CWF grant closeout confirmation

Hi Brad,

I have uploaded all the invoices as well as the tracking spreadsheet in eLINK. I see that the grant status says "Progress Report Submitted" - if the system is capable of sending us a notification for that change that would be great, otherwise we will use your email below as our record of submittal. Thanks.

Amy R. Mikus, PE

Water Resources Engineer  
Minneapolis office: 952.832.2822  
[amikus@barr.com](mailto:amikus@barr.com)  
[www.barr.com](http://www.barr.com)

resourceful. naturally.



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**From:** Wozney, Brad (BWSR) [<mailto:brad.wozney@state.mn.us>]  
**Sent:** Friday, February 07, 2014 9:44 AM  
**To:** Amy R. Mikus  
**Cc:** Christopher, Steve (BWSR)  
**Subject:** RE: 2011 CWF grant closeout confirmation

Amy  
It is in submitted status but for some reason the system generated 2 progress reports, which it's not supposed to do. This may be the reason you didn't get notification. Nevertheless it's submitted.

I did not receive your large email. Please upload them as attachments in eLINK. If you have a tracking spreadsheet you used for invoices/receipts/expenditures, please upload that as well. Thanks for your diligence.

Brad

### **Brad Wozney**

Clean Water Specialist  
BWSR  
520 Lafayette Road North  
St. Paul, MN 55155

[brad.wozney@state.mn.us](mailto:brad.wozney@state.mn.us)

Office (651) 296-6068



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**From:** Amy R. Mikus [[AMikus@barr.com](mailto:AMikus@barr.com)]  
**Sent:** Wednesday, February 05, 2014 12:47 PM

# eLink, the BWSR Grants Management System

amikus



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**Grant Id:** C13-6224

**Allocation Type:** CWF - Runoff Reduction

**Stage:** Progress Report - Submitted

**Grant Title:**

2011 - Runoff Reduction - Bassett Creek WMO  
(WMO)

**Amount Awarded:** \$75,000.00

**Status:**

Go

**Organization:** Bassett Creek WMC

[Go to Workplan](#)

Grant

Grant Map

Application Budget

Team Selection

Progress Report

Attachments

Add New Attachment

Attachments

Displaying 1 - 10 of 10 results

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DOCUMENT NAME	GRANT ID	GRANT TITLE	DATE	DOCUMENT TYPE	RECORD DESCRIPTION	ACTION
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			ADDED			
grant_app_general-added.rpt	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	5/30/2013	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 
grant_app_general-added.rpt	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	5/30/2013	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 
grant_app_general.rpt	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	5/30/2013	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 
grant_app_general.rpt	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	5/30/2013	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 
grant_app_general.rpt	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	5/30/2013	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 
Signed Final Financial Report	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	1/24/2014	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 
Signed Final Financial Report	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	1/24/2014	PROGRESS REPORT (USER_GEN)	Progress Dated - 01/24/2014	 
All Details Report	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	1/24/2014	BWSR_REPORTS (SYS_GEN)	Workflow Generated - All Details Report - 01/24/2014	
FY 2011 Grant tracking Spreadsheet for BWSR	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	2/11/2014	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 
2011 CWF Wirth Lake Invoices	C13-6224	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	2/11/2014	GENERAL_ATTACHMENT (USER_GEN)	2011 - Runoff Reduction - Bassett Creek WMO (WMO)	 

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