

**PROGRESS REPORT #3**  
**PERIOD 8/24/19 – 9/13/19**  
**LAKE SHAMINEAU HIGH WATER PROJECT STEP 2**

**SUMMARY OF PERIOD ACTIVITIES:** Met with and toured Gold property to obtain elevations of lakes and wetlands on his property. Discussed easement offers with property owner along discharge pipe route and infiltration basin. Traveled to St. Paul to meet with DNR staff and review design and permitting requirements. Attended weekly project management meetings with LID Board Members. Prepared and sent easement offer letters to Kylanders and Murphy. Continued working on preliminary designs for infiltration basin and pumping station. Worked on groundwater modeling of infiltration basins to evaluate designs and impact on groundwater levels. Prepared additional groundwater modeling results email to DNR for review and comment. Prepared preliminary design work for selected outlet alternative alignment. Working on grading plan for infiltration basins. Began work on Operations and Management Plan.

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**SUMMARY OF PAST ACTIVITIES:** Coordinated surveying of Bugle Road right-of-way and section corners. Attended TEP meeting on August 8, 2019 to discuss preliminary design groundwater design issues with DNR, Corps of Engineers, Morrison SWCD, BWSR, and Morrison County staff. Prepared memo on design constraints for gravity flow to a wetland basin. Coordinated surveying of gravel pit and Stanchfield Dam for infiltration basin design. Prepared design cost updates for LID Annual Meeting and attended LID Annual Meeting to provide information on design and plans. Met with gravel pit property owner to discuss design and easement for the infiltration basins. Completed site reconnaissance of three outlet alternatives. Completed surveying and sounding of lake bottom at the northeast end of the lake. Met with property owner to discuss infiltration basin design and piping. Completed preliminary design layouts for three alternative routes and prepared detailed costs for comparison. Attended public information meeting to discuss preliminary design and design steps that will be completed. Prepared easement letters for proposed facilities. Toured the Little McDonald and Devils Lake project facilities and discussed design and operation issues. Prepared preliminary design work for selected outlet alternative alignment. Prepared data and memo on Stanchfield Dam.

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**COSTS INCURRED FOR THIS PERIOD:** \$15,651.62      **DUE THIS PERIOD:** \$15,557.10

**TOTAL BILLINGS TO DATE:** \$72,599.80      **ADDITIONAL CONTRACTED COSTS:** \$31,114.20

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**KEY INFORMATION OBTAINED:** Found that Cattleberry Bay is deep enough for the inlet pipe in addition to other areas along the east shore. Infiltrating 3 feet per day with raise groundwater under the basins by 20 feet and groundwater elevations along the downgradient wetlands by 2 feet. Infiltration rates will need to reduced some to prevent excessive mounding of the groundwater and

the affect on down gradient wetlands.

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**ISSUES / CONCERNS:** Obtaining easement cooperation from property owners has become very problematic.

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**GOALS FOR THE NEAR FUTURE:** Complete additional detailed design for selected alternative. Prepare additional easement letters for the designed route. Coordinate geotechnical drilling to determine soil characteristics along proposed route. Provide additional cost and project description information to Lake Shamineau LID. Complete detailed design drawings of selected outlet route.

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**SCOPE CHANGES / VALUE ADDED TO DATE:** Participated in weekly status update meetings with Cindy Kevern and Rick Rosar. Evaluated three alignment alternatives with preliminary design and cost estimates. Met three times with one landowner to date and have talked to one other about redesign several times.

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**SCHEDULE STATUS:**

- Working on Step 2 and Step 3
- Step 2 to be completed October 31, 2019
- Step 3 to start October 1, 2019

**INPUT NEEDED FROM CLIENT OR OTHERS:** None at this time.

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DATE: 10/18/19

SIGNED: Brian A. Rosar

Widseth Smith Nolting & Assoc., Inc.  
 216 S Main St  
 Crookston, MN 56716  
 T. 218-281-6522



## INVOICE

Lake Shamineau Lake Improvement District  
 P.O. Box 394  
 Motley, MN 56466

Invoice Number: 201048  
 Date: October 08, 2019  
 Project Number: 2019-10325

Lake Shamineau High Water Project Step 2 - Survey and Detailed Design

For Professional Services Rendered Through: September 13, 2019

### Fee Services

	Contract Amount	Percent Complete	Fee Earned	Prior Billings	Current Billings
Lake Shamineau High Water Project Step 2 - Survey and Detailed Design	\$103,714.00	70.00	\$72,599.80	\$57,042.70	\$15,557.10
	\$103,714.00		\$72,599.80	\$57,042.70	\$15,557.10
					\$15,557.10
				<b>Invoice Total</b>	<b>\$15,557.10</b>

# Linked Invoice Transactions - Widseth Smith Nolting & Assoc., Inc.

Invoice No.: 201048

Invoice Date: 10/8/2019

Transaction ID: 108525

## Labor Transactions

P/E Date	Employee	Labor Code	Work Date	Hrs	Effort
<b>2019-10325.0010.0102 Attend Site Visit and Field Inspection</b>					
08/30/2019	Strong, Paul		8/29/2019	1.50	157.50
<i>MNDNR Meeting</i>					
08/30/2019	Strong, Paul		8/28/2019	1.25	131.25
<i>Cantleberry Discussion</i>					
<b>Total for 2019-10325.0010.0102</b>				<b>2.75</b>	<b>288.75</b>
<b>2019-10325.0010.0103 Prepare and Distribute Meeting Minutes</b>					
09/06/2019	Strong, Paul		9/4/2019	0.50	52.50
<i>Review of MNDNR minutes</i>					
08/30/2019	Loberg, Sarah		8/26/2019	0.50	35.00
<i>test water levels</i>					
<b>Total for 2019-10325.0010.0103</b>				<b>1.00</b>	<b>87.50</b>
<b>2019-10325.0020.0200 Project Management</b>					
09/06/2019	Ross, Brian		9/6/2019	2.00	330.00
<i>Work on Project Design and Easements</i>					
09/06/2019	Ross, Brian		9/4/2019	1.00	165.00
<i>Work on Another Easement Letter for Kylanders</i>					
09/06/2019	Ross, Brian		9/3/2019	1.00	165.00
<i>Work on Second Kylander Easement Letter</i>					
09/06/2019	Ross, Brian		9/5/2019	1.00	165.00
<i>Work on Murphy Easement Questions with Rick Rosar and Paul Strong</i>					
08/30/2019	Schlieman, Richard		8/28/2019	1.00	152.00
<i>planning and zoning office phone call</i>					
08/30/2019	Schlieman, Richard		8/27/2019	4.00	608.00
<i>contacts for possible variance options and laying out spiral curve</i>					
<b>Total for 2019-10325.0020.0200</b>				<b>10.00</b>	<b>1,585.00</b>
<b>2019-10325.0020.0201 Travel Time</b>					
08/30/2019	Strong, Paul		8/28/2019	1.50	157.50
<i>BXT-Gold-Cantleberry-Survey-Baxter</i>					
08/30/2019	Strong, Paul		8/29/2019	5.50	577.50
<i>BXT - DNR MSP Office - BXT</i>					
<b>Total for 2019-10325.0020.0201</b>				<b>7.00</b>	<b>735.00</b>
<b>2019-10325.0020.0202 Additional Infiltrometer Testing/Site In</b>					
08/30/2019	Loberg, Sarah		8/26/2019	1.25	87.50
<i>Driving</i>					
<b>Total for 2019-10325.0020.0202</b>				<b>1.25</b>	<b>87.50</b>
<b>2019-10325.0020.0204 Onsite Surveying</b>					
08/23/2019	Strong, Paul		8/21/2019	0.75	78.75
<i>Field Survey Prep/Coordination</i>					
08/30/2019	Strong, Paul		8/28/2019	4.00	420.00
<i>Downstream Property Surveying</i>					
08/30/2019	Ross, Brian		8/28/2019	2.00	330.00

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*Assist with Elevation Surveys*

**Total for 2019-10325.0020.0204** **6.75** **828.75**

**2019-10325.0020.0206 Easement Surveys**

09/13/2019 Ross, Brian 9/10/2019 0.50 82.50

*Finalize Murphy Easement Letter*

08/30/2019 Ross, Brian 8/28/2019 1.00 165.00

*Meet with Chuck Cantleberry*

09/13/2019 Ross, Brian 9/12/2019 0.50 82.50

*Work on Murphy Easement Letter Response*

**Total for 2019-10325.0020.0206** **2.00** **330.00**

**2019-10325.0020.0208 Data Reduction and Analysis**

09/13/2019 Ross, Brian 9/11/2019 0.50 82.50

*Discuss Surveying Results*

**Total for 2019-10325.0020.0208** **0.50** **82.50**

**2019-10325.0030.0300 Project Management Activities**

08/23/2019 Ross, Brian 8/23/2019 1.00 165.00

*Work on Easement Work and Infiltration Basin Design*

08/30/2019 Ross, Brian 8/30/2019 2.00 330.00

*Project Management Meeting with Cindy, Ric, and Bob*

09/13/2019 Ross, Brian 9/10/2019 0.50 82.50

*Communicate Issues on Easements to LID*

09/13/2019 Ross, Brian 9/12/2019 2.00 330.00

*Project Management Meeting*

09/13/2019 Ross, Brian 9/9/2019 1.00 165.00

*Work on Mark Murphy Easement*

08/23/2019 Ross, Brian 8/20/2019 1.00 165.00

*Emails to LID Board Members*

**Total for 2019-10325.0030.0300** **7.50** **1,237.50**

**2019-10325.0030.0301 Complete Hydrogeologic/Hydraulic Models**

08/30/2019 Strong, Paul 8/30/2019 0.75 78.75

*Kylander NW Easement Figure/Groundwater Flow Map*

08/30/2019 Strong, Paul 8/30/2019 1.50 157.50

*Review of Model& Report/Submittal to MNDNR*

09/06/2019 Strong, Paul 9/6/2019 3.00 315.00

*Model Revisions/Runs*

09/13/2019 Strong, Paul 9/12/2019 6.50 682.50

*Model Review*

09/13/2019 Strong, Paul 9/13/2019 3.00 315.00

*Model Discussion/Writeup*

09/13/2019 Strong, Paul 9/10/2019 5.00 525.00

*Model Revisions/Runs*

09/06/2019 Strong, Paul 9/5/2019 4.75 498.75

*Model Revisions/Runs*

08/30/2019 Ross, Brian 8/29/2019 3.50 577.50

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Invoice No.: 201048

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*Meeting with DNR*

09/06/2019 Bayerl, Timothy 9/6/2019 1.50 247.50

*Preliminary design*

09/13/2019 Bayerl, Timothy 9/9/2019 1.50 247.50

*Pump station and force main design*

09/13/2019 Bayerl, Timothy 9/12/2019 3.00 495.00

*Zoom meeting and preliminary design*

09/06/2019 Bayerl, Timothy 9/3/2019 1.00 165.00

*Preliminary Design*

08/30/2019 Bayerl, Timothy 8/27/2019 1.50 247.50

*Prep for DNR meeting on 8/29*

09/13/2019 Bayerl, Timothy 9/11/2019 1.50 247.50

*Preliminary design*

08/30/2019 Bayerl, Timothy 8/26/2019 1.00 165.00

*Preliminary design*

09/06/2019 Bayerl, Timothy 9/4/2019 1.00 165.00

*Review of DNR meeting minutes*

08/30/2019 Bayerl, Timothy 8/28/2019 5.50 907.50

*DNR meeting in St Paul*

08/30/2019 Ross, Brian 8/30/2019 0.50 82.50

*Review Groundwater Model with Paul*

**Total for 2019-10325.0030.0301 46.00 6,120.00**

**2019-10325.0030.0302 Prepare Design Figures**

09/06/2019 Strong, Paul 9/6/2019 3.00 315.00

*Updated Profile Sheets (1.5 hrs)*

*Updated Grading Plan (1.5 hr)*

09/13/2019 Strong, Paul 9/10/2019 4.75 498.75

*Grading Revisions*

09/13/2019 Strong, Paul 9/9/2019 1.25 131.25

*Correspondence (0.25 hrs)*

*Grading Revisions (1 hr)*

09/13/2019 Strong, Paul 9/11/2019 2.50 262.50

*Grading Discussion/Revisions*

09/06/2019 Strong, Paul 9/4/2019 1.00 105.00

*Murphy & Pierce Easement Figures*

09/13/2019 Ross, Brian 9/12/2019 0.50 82.50

*Discuss Design Elements with Tim Bayerl*

08/23/2019 Ross, Brian 8/22/2019 1.00 165.00

*Work on Infiltration Basin Design*

09/13/2019 Ross, Brian 9/10/2019 0.50 82.50

*Review New Design Figures with Paul; Provide Email About Design to LID Board*

08/30/2019 Ross, Brian 8/26/2019 1.00 165.00

*Work on Infiltration Basin Design*

**Total for 2019-10325.0030.0302 15.50 1,807.50**

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Invoice No.: 201048

Invoice Date: 10/8/2019

Transaction ID: 108525

**2019-10325.0030.0303 Geotechnical/Water Quality Assessment**

09/13/2019 Ross, Brian 9/11/2019 0.50 82.50

*Discuss Geotechnical Assessment*

08/23/2019 Loberg, Sarah 8/22/2019 1.00 70.00

*Photos of Infiltration Basin.*

**Total for 2019-10325.0030.0303** **1.50** **152.50**

**2019-10325.0030.0304 Develop Operation and Maintenance Plan**

09/06/2019 Ross, Brian 9/3/2019 0.50 82.50

*Review Plan Requirements*

08/23/2019 Ross, Brian 8/23/2019 0.50 82.50

*Review Infiltration Modeling*

08/23/2019 Ross, Brian 8/22/2019 1.00 165.00

*Work on Operation Plan*

**Total for 2019-10325.0030.0304** **2.00** **330.00**

**2019-10325.0040.0400 Project Management Activities**

08/16/2019 Conner, Chad 8/16/2019 0.50 76.00

*Fieldwork Review*

08/23/2019 Ross, Brian 8/23/2019 1.00 165.00

*Work on Long Range Plan*

08/23/2019 Ross, Brian 8/22/2019 1.50 247.50

*Coordinate DNR Meeting and Permit Review*

08/23/2019 Ross, Brian 8/21/2019 2.00 330.00

*Project Management Meeting to Discuss Design Plans, Easements, and Long Term Plan*

09/06/2019 Ross, Brian 9/4/2019 1.00 165.00

*Review DNR Long Term Needs*

**Total for 2019-10325.0040.0400** **6.00** **983.50**

**2019-10325.0040.0401 Develop Detailed Cost Estimates**

09/13/2019 Strong, Paul 9/13/2019 1.50 157.50

*Cost Estimate Updates*

**Total for 2019-10325.0040.0401** **1.50** **157.50**

**2019-10325.0040.0404 Summarize Permitting Requirements**

08/30/2019 Ross, Brian 8/26/2019 1.00 165.00

*Discuss Permitting with LID and Chuck Ross*

**Total for 2019-10325.0040.0404** **1.00** **165.00**

**2019-10325.0040.0405 Project Team Meeting with LID Board**

09/13/2019 Strong, Paul 9/12/2019 1.50 157.50

*Team Meeting*

**Total for 2019-10325.0040.0405** **1.50** **157.50**

**2019-10325.2000 Additional Tasks**

08/30/2019 Ross, Brian 8/28/2019 1.00 165.00

*Meet with Tom Gold to Discuss Project*

08/30/2019 Ross, Brian 8/27/2019 0.75 123.75

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*Kylander Easement Redo*

08/23/2019	Williamson, Lori		8/23/2019	0.25	15.75
<i>scan/file survey field report from 8/16/19.</i>					

<b>Total for 2019-10325.2000</b>	<b>2.00</b>	<b>304.50</b>
<b>Total labor</b>	<b>115.75</b>	<b>15,440.50</b>

**Employee Reimbursable Transactions**

Check No.	Payee	Expense Code	Check Date	Units	Effort
<b>2019-10325.0030.0300 Project Management Activities</b>					
57094	Ross, Brian	Company Vehicle Mileage	9/13/2019	72.00	41.76
<i>Drive to Shameneau: Meet with Landowners; Complete Survey Work</i>					
<b>Total for 2019-10325.0030.0300</b>				<b>72.00</b>	<b>41.76</b>
<b>2019-10325.0030.0301 Complete Hydrogeologic/Hydraulic Models</b>					
57094	Ross, Brian	Company Vehicle Mileage	9/13/2019	240.00	139.20
<i>Drive to St.Paul to Meet with DNR Hydrologists</i>					
<b>Total for 2019-10325.0030.0301</b>				<b>240.00</b>	<b>139.20</b>
<b>2019-10325.0040.0405 Project Team Meeting with LID Board</b>					
57094	Ross, Brian	Company Vehicle Mileage	9/13/2019	52.00	30.16
<i>Drive to LID Annual Meeting</i>					
<b>Total for 2019-10325.0040.0405</b>				<b>52.00</b>	<b>30.16</b>
<b>Total reimbursements</b>				<b>364.00</b>	<b>211.12</b>