



# MinnesotaCorn

## RESEARCH & PROMOTION COUNCIL

### PRELIMINARY PROGRESS REPORT

PROJECT TITLE: Vegetative cover crops as a nitrate reduction strategy for tile drainage.

PROJECT NUMBER: MCR&PC / 4121-16SP, (CON00000060901)

REPORTING PERIOD: January 1 – March 31, 2019

PRINCIPAL INVESTIGATOR: Jeffrey Vetsch

ORGANIZATION: Univ. of Minnesota, Southern Research and Outreach Center

PHONE NUMBER: 507-837-5654

EMAIL: [jvetsch@umn.edu](mailto:jvetsch@umn.edu)

1.) PROJECT ACTIVITIES COMPLETED DURING THE REPORTING PERIOD. **Activities for this quarter were to perform procedures as outlined in the research protocol (proposal). This included summarizing and statistically analyzing all data (crop production, tile water, and soil sample), writing and submitting annual and quarterly reports.** All tasks were performed in a timely fashion.

2.) IDENTIFY ANY SIGNIFICANT FINDINGS AND RESULTS OF THE PROJECT TO DATE. Nitrate concentrations in tile drainage water averaged ~ 3 ppm in 2018. These values are considerably less than what is typically measured in south-central Minnesota. This is partly due to cover crop treatment effects from both 2017 and 2018.

3.) CHALLENGES ENCOUNTERED. No major challenges during this period.

4.) FINANCIAL INFORMATION. Expenses during the period were for travel and labor (salary and fringe). The final invoice and quarterly budget statement are attached. All funds have been spent in full and no categories are greater than 10% of what was budgeted for that category. However, the travel category was less than budgeted.

5.) EDUCATION AND OUTREACH ACTIVITIES. No outreach activities during this period.

# INVOICE

Invoice No. 2010640569

REGENTS OF THE UNIVERSITY OF MINNESOTA

**PAYABLE WITHIN 30 DAYS**

MN CORN RES AND PROMOTION COUN  
 PAUL MENTS, PHD, RESEARCH DIRECTOR  
 738 1ST AVE E  
 SHAKOPEE MN 55379-1547

**Invoice Date:** 05/30/2019  
**Contract No:** CON00000060901  
**Agency No:** 4121-16SP  
**Federal Tax ID:** 41-6007513

Invoicing Period	Description	Previously Billed Expenses	Current Expenses	Cumulative Total
01/01/2019 - 04/01/2019	Salaries and Wages	42,465.21	10,277.05	52,742.26
	Fringe Benefits	10,720.89	2,918.66	13,639.55
	Consulting and Prof. Services	0.00	0.00	0.00
	Supplies and Services	18,425.62	0.00	18,425.62
	Participant Expenses	0.00	0.00	0.00
	Travel	518.47	374.10	892.57
	Student Assistance	0.00	0.00	0.00
	Subcontracts	0.00	0.00	0.00
	Repairs&Maintenance/Rent&Lease	0.00	0.00	0.00
	Equipment	0.00	0.00	0.00
	Other Expenses	0.00	0.00	0.00
	Indirect Costs	0.00	0.00	0.00
	<b>Total \$</b>	<b>72,130.19</b>	<b>13,569.81</b>	<b>85,700.00</b>
	Program Income and TP	0.00	0.00	0.00
Title: Vegetative cover crops as a nitrate reduction strategy f Principal Investigator: Jeffrey Vetsch				
	<b>Cost Share \$</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

For questions please contact: Angela Lane

E-Mail: lanex134@umn.edu  
 Telephone: 612/624-8265

**Total Amount Due: \$ 13,569.81**

I certify that to the best of my knowledge and belief, all expenditures reported (or payments requested) are for appropriate purposes and were made in accordance with the agreements set forth in the application and award documents.

Regents of the University of Minnesota

Nicole Pirman  
 Director  
 Sponsored Financial Reporting

Make Remittance Payable To: REGENTS OF THE UNIVERSITY OF MINNESOTA

Mail To:  
 NW 5957  
 PO Box 1450  
 Minneapolis, MN 55485-5957

Customer: 5005221  
 DUNS #: 559917996

**PLEASE REFERENCE ABOVE INVOICE NUMBER ON REMITTANCE**

**Budgeted and spent funds for each quarter during project year 2016.**

Category	Budgeted	Spent	Apr-Jun 16	Jul-Sep 16	Oct-Dec 16	Jan-Mar 17
			-----\$-----		-----\$-----	
Salary		8,250.09	2,359.25	3,754.84		2,136.00
Fringe		1,312.37	344.27	412.74		555.36
Salary+fringe	12,300	9,562.46	2,703.52	4,167.58	-	2,691.36
Supplies	700	2,402.46	200.00	1,104.42	1,082.86	15.18
Services	2,800	3,402.75	-	1,743.75	975.00	684.00
Travel	400	27.00	-	-	27.00	-
<b>Total</b>	<b>16,200</b>	<b>15,394.67</b>	<b>2,903.52</b>	<b>7,015.75</b>	<b>2,084.86</b>	<b>3,390.54</b>

**Budgeted and spent funds for each quarter during project year 2017.**

Category	Budgeted	Spent	Apr-Jun 17	Jul-Sep 17	Oct-Dec 17	Jan-Mar 18
			-----\$-----		-----\$-----	
Salary		11,875.64	7,696.62	2,020.54	279.00	1,879.48
Fringe		3,140.59	2,003.88	549.59	75.89	511.23
Salary+fringe	26,600	15,016.23	9,700.50	2,570.13	354.89	2,390.71
Supplies	800	29.96	-	-		29.96
Services	6,950	4,448.04	2,394.00	235.25	702.79	1,116.00
Travel	500	405.90	89.35	245.57	41.20	29.78
<b>Total</b>	<b>34,850</b>	<b>19,900.13</b>	<b>12,183.85</b>	<b>3,050.95</b>	<b>1,098.88</b>	<b>3,566.45</b>

**Budgeted and spent funds for each quarter during project year 2018.**

Category	Budgeted	Spent	Apr-Jun 18	Jul-Sep 18	Oct-Dec 18	Jan-Mar 19
			-----\$-----		-----\$-----	
Salary		32,616.53	6,372.15	7,446.31	8,521.02	10,277.05
Fringe		9,186.59	1,733.20	2,114.77	2,419.96	2,918.66
Salary+fringe	26,600	41,803.12	8,105.35	9,561.08	10,940.98	13,195.71
Supplies	800	18.37	-	18.37		
Services	6,750	8,124.04	1,880.00	2,176.75	4,067.29	
Travel	500	459.67	85.57	-		374.10
<b>Total</b>	<b>34,650</b>	<b>50,405.20</b>	<b>10,070.92</b>	<b>11,756.20</b>	<b>15,008.27</b>	<b>13,569.81</b>

**Total Budgeted and spent funds from grant inception through current budget.**

Category	Total Budgeted	Total Spent
Salary	51,849	52,742.26
Fringe	13,651	13,639.55
Supplies	2,300	2,450.79
Services	16,500	15,974.83
Travel	1,400	892.57
<b>Total</b>	<b>85,700</b>	<b>\$85,700.00</b>