



# Grant All-Detail Report Projects and Practices 2014

**Grant Title** - Livestock Nutrient Reduction Project

**Grant ID** - C14-6945

**Organization** - Heron Lake WD

<b>Grant Awarded Amount</b>	<b>\$264,535.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$66,133.75	<b>Grant End Date</b>	12/31/2016
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Jan Voit

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$264,535.00	\$166,126.79	\$98,408.21
Total Match Amount	\$66,650.48	\$55,869.86	\$10,780.62
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$331,185.48</b>	<b>\$221,996.65</b>	<b>\$109,188.83</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
Engineering Costs	Technical/Engineering Assistance	Current State Grant	Livestock Nutrient Reduction Project	\$34,468.00	\$12,521.63	1/21/2015	N
Engineering Costs	Technical/Engineering Assistance	Landowner Fund	Landowner Match	\$8,617.00	\$4,173.88	1/21/2015	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Grant Management	Administration /Coordination	Current State Grant	Livestock Nutrient Reduction Project	\$280.00	\$276.66	1/13/2015	N
Grant Management	Administration /Coordination	Local Fund	In-Kind	\$586.48	\$586.48	8/19/2015	Y
Manure Storage Basin & Treatment Strip	Livestock Waste Management	Current State Grant	Livestock Nutrient Reduction Project	\$229,787.00	\$153,328.50	4/21/2015	N
Manure Storage Basin & Treatment Strip	Livestock Waste Management	Landowner Fund	Landowner Match	\$57,447.00	\$51,109.50	4/21/2015	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
313 - Waste Storage Facility	1	1	195902 COUNT	195902 COUNT
393 - Filter Strip	1	1	0.5 AC	0.29 AC

### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Manure Storage Basin &amp; Treatment Strip</b>	FECAL COLIFORM	2828000000000000 CFU/YR	Beaver Creek	MINNFARM	
<b>Manure Storage Basin &amp; Treatment Strip</b>	PHOSPHORUS FEEDLOT (EST. REDUCTION)	120 LBS/YR	Beaver Creek	MINNFARM	
<b>Manure Storage Basin &amp; Treatment Strip</b>	BOD 5	1969 LBS/YR	Beaver Creek	MINNFARM	
<b>Manure Storage Basin &amp; Treatment Strip</b>	COD	8860 LBS/YR	Beaver Creek	MINNFARM	
<b>Manure Storage Basin &amp; Treatment Strip</b>	NITROGEN	461 LBS/YR	Beaver Creek	MINNFARM	

## Final Indicators Summary

Indicator Name	Total Value	Unit
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### Grant Activity

Grant Activity - Engineering Costs			
Description	Southwest Prairie Technical Service Area will be engineering the project. Requested funds will cover the management, development, and oversight of the project prior to and during construction. Russell Hoogendoorn, Professional Engineer, will be the engineer for the project.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	8-May-14	End Date	02-Dec-14
Has Rates and Hours?	Yes		
Actual Results	<p>A pre-con meeting was held on May 8, 2014. Those in attendance at the meeting were: Mike Skoglund, Southwest Prairie Technical Service Area 5 (TSA5); Larry Entinger, Entinger Construction; Steve Beek, concrete contractor; and Chuck Hill, landowner.</p> <p>A survey layout of the property was completed on June 2, 2014 by Southwest Prairie TSA5.</p> <p>Russell Hoogendorn submitted the engineering plans for the project on December 2, 2014.</p>		

**Grant Activity - Grant Management**

<p><b>Description</b></p>	<p>Reporting as required in the grant agreement. Other duties such as administration of grant funds, record keeping, and grant/work plan maintenance. Tasks will be performed primarily by the Heron Lake Watershed District Administrator and assisted by the Watershed Coordinator.</p>		
<p><b>Category</b></p>	<p>ADMINISTRATION/COORDINATION</p>		
<p><b>Start Date</b></p>	<p>7-Apr-14</p>	<p><b>End Date</b></p>	<p>14-Apr-15</p>
<p><b>Has Rates and Hours?</b></p>	<p>Yes</p>		
<p><b>Actual Results</b></p>	<p>Kiel Tschumperlin entered project information in eLINK on April 7, 2014. He reviewed Clean Water Fund grant information on April 8, 2014.</p> <p>On November 3, 2014, Amanda Schultz reviewed the grant agreement and compiled photos. She reviewed the report and spoke with Jon Bloemendaal regarding the project on November 4, 2014.</p> <p>On December 10, 2014, Jan Voit reviewed the CWF grant information in eLINK and contacted Mark Hiles.</p> <p>On December 22, 2014, Jan Voit spoke with Mike Skoglund regarding project bills.</p> <p>On January 13, 2015 and January 22, 2015 Amanda Schultz and Jan Voit worked on grant reporting.</p> <p>Project costs to date total \$221,133.51. A payment of \$82,925 (50%) was issued to Chuck Hill on January 22, 2015. Project invoices were uploaded to eLINK attachments.</p> <p>Jan Voit worked on grant reporting on January 26, 2015.</p> <p>Jan Voit spoke with Mike Skogland, SWPTSA regarding the final payment to Chuck Hill on March 30, 2015.</p> <p>Jan Voit worked on the final payment and final report on April 7, 2015 and April 14, 2015. The final report was submitted to BWSR on April 14, 2015.</p>		

**Grant Activity - Manure Storage Basin & Treatment Strip**

<p><b>Description</b></p>	<p>Amount requested will cover the cost of constructing the proposed manure storage basin and vegetated treatment strip. Project will meet NRCS practices (635) Vegetated Treatment Area, and (313) Livestock Waste Management System. Work will begin on the project when the grant agreement is fully executed, followed by a signature from the HLWD Board Chair entering into the grant agreement with the landowner. Construction for the project will begin as soon as conditions allow. Construction could take up to 2 months. Construction is expected to be completed by the end of July 2014. Seeding of the vegetated treatment area will take place in late August or early September. Project is expected to be completed by the end of 2014.</p>		
<p><b>Category</b></p>	<p>LIVESTOCK WASTE MANAGEMENT</p>		
<p><b>Start Date</b></p>	<p>11-Jul-14</p>	<p><b>End Date</b></p>	<p>16-Dec-14</p>
<p><b>Has Rates and Hours?</b></p>	<p>No</p>		
<p><b>Actual Results</b></p>	<p>The dirt work for the project was started on July 11, 2014 by Entinger Construction.</p> <p>Tile work was started on July 23, 2014 by Lenz Excavating.</p> <p>The concrete for the manure storage basin was poured on September 9, 2014. Work was done by Chuck Hill and Steve Beek. The concrete was supplied by Buffalo Ridge Concrete.</p> <p>The washwater was pumped on October 20, 2014 by Spartz Well Drilling.</p> <p>Dormant seeding of the filter strip took place on November 8, 2014 by Chuck Hill.</p> <p>On March 30, 2015, Mike Skoglund contacted the HLWD office regarding the final payment for the project. He informed the HLWD that Chuck Hill installed the fencing on December 16, 2014. HLWD staff was under the assumption that the fencing would be completed in the spring of 2015. Final payment will be made to the landowner on April 21, 2015.</p>		

Activity Action - Waste Storage Structure			
Practice	313 - Waste Storage Facility	Count of Activities	1
Description	Animal waste storage facility was build on the west end of a new dairy facility. The pit is 195,902 cubic feet in size. The pit is clay lined with a concrete bottom, two concrete pumpout pads, and a concrete push off wall. A wastewater sump and pump was also installed to pump milk house waste water into the storage pit.		
Proposed Size / Units	195,902.00 COUNT	Lifespan	10 Years
Actual Size/Units	195,902.00 COUNT	Installed Date	2-Dec-14

Activity Action - Buffer strip			
Practice	393 - Filter Strip	Count of Activities	1
Description	A vegetated buffer strip was installed to the north of the new dairy facility to filter feedlot runoff. Proposed filter size was 120' X 180'. Actual size was reduced to 70' X 180' due to a decreased drainage area. Diversion berms were constructed to the north and south of the buffer. A 70' long concrete spreader was installed to the west of the buffer to evenly distribute runoff.		
Proposed Size / Units	0.50 AC	Lifespan	10 Years
Actual Size/Units	0.29 AC	Installed Date	2-Dec-14

## Grant Attachments

Document Name	Document Type	Description
<b>2014 Competitive Grant</b>	Grant Agreement	2014 Competitive Grant - Heron Lake WD
<b>2014 Competitive Grant executed</b>	Grant Agreement	2014 Competitive Grant - Heron Lake WD
<b>Actual Costs</b>	Grant	Livestock Nutrient Reduction Project
<b>Actual Costs - 2015</b>	Grant	Livestock Nutrient Reduction Project
<b>Actual Costs - 2015</b>	Progress	Progress Dated - 04/14/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/14/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/22/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/23/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 08/19/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 08/19/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/14/2015

Document Name	Document Type	Description
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 10/03/2013
<b>Before MinnFARM</b>	Grant	Livestock Nutrient Reduction Project
<b>Bills</b>	Grant	Livestock Nutrient Reduction Project
<b>Engineering Plans</b>	Grant	Livestock Nutrient Reduction Project
<b>Feedlot Report</b>	Grant	Livestock Nutrient Reduction Project
<b>Landowner Contract</b>	Grant	Livestock Nutrient Reduction Project
<b>Manure Storage Basin Design</b>	Grant	Livestock Nutrient Reduction Project
<b>Photo 1</b>	Grant	Livestock Nutrient Reduction Project
<b>Photo 2</b>	Grant	Livestock Nutrient Reduction Project
<b>Photo 3</b>	Grant	Livestock Nutrient Reduction Project
<b>Proposed MinnFARM</b>	Grant	Livestock Nutrient Reduction Project
<b>SR_loc_9928.jpg</b>	Grant	Livestock Nutrient Reduction Project
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 02/24/2014
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 04/02/2014
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 08/19/2015
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 01/23/2014
<b>grantmap_9928_2013-10-03_12-48-21-PM.jpg</b>	Grant	Livestock Nutrient Reduction Project
<b>work plan emails</b>	Journal	Journal Dated - 03/05/2014