



## Grant All-Detail Report Buffer Law 2017

Grant Title - 2017 - Buffer Law (Cass SWCD)

Grant ID - P17-7753

Organization - Cass SWCD

Original Awarded Amount	\$10,000.00	Grant Execution Date	2/7/2017
Required Match Amount	\$0.00	Original Grant End Date	12/31/2018
Required Match %	0%	Grant Day To Day Contact	John Ringle
Current Awarded Amount	\$10,000.00	Current End Date	12/31/2018

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$10,000.00	\$10,000.00	\$0.00
Total Match Amount	\$0.00	\$0.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$10,000.00</b>	<b>\$10,000.00</b>	<b>\$0.00</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
Administer Buffer Law	Agricultural Practices	Current State Grant	2017 - Buffer Law (Cass SWCD)	\$10,000.00	\$10,000.00	12/28/2018	N

## Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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## 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
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## Grant Activity

Grant Activity - Administer Buffer Law			
Description	Administer Buffer Law in Cass County. Identify and work with landowners not in compliance with buffer requirements. Develop County Buffer Enforcement Ordinance.		
Category	AGRICULTURAL PRACTICES		
Start Date	2-Jan-17	End Date	31-Dec-18
Has Rates and Hours?	Yes		
Actual Results	Developed new set of countywide aerial photos (Photometry). Reviewed county arial photos intensively. and correlated with BuffCat Model and verified and submitted info. Developing "other waters" map Presented info to SWCD Supervisors Board and Cass County Board of Commissioners		

## Grant Attachments

Document Name	Document Type	Description
2017 Buffer Law Final Finacial	Grant	2017 - Buffer Law (Cass SWCD)
2017 Buffer Law Implementation	Grant Agreement	2017 Buffer Law Implementation - Cass SWCD
2017 Buffer Law Implementation executed	Grant Agreement	2017 Buffer Law Implementation - Cass SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/01/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/01/2017

Document Name	Document Type	Description
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/29/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/30/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/06/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 07/29/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/30/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/30/2019
<b>work plan</b>	Grant	2017 - Buffer Law (Cass SWCD)



## Grant All-Detail Report Conservation Delivery 2017

**Grant Title** - 2017 - Conservation Delivery (Cass SWCD)

**Grant ID** - P17-7441

**Organization** - Cass SWCD

Original Awarded Amount	\$18,275.00	Grant Execution Date	
Required Match Amount	\$0.00	Original Grant End Date	12/31/2018
Required Match %	0%	Grant Day To Day Contact	John Ringle
Current Awarded Amount	\$18,275.00	Current End Date	12/31/2018

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$18,275.00	\$18,275.00	\$0.00
Total Match Amount	\$0.00	\$0.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$18,275.00</b>	<b>\$18,275.00</b>	<b>\$0.00</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
District Operations	Agricultural Practices	Current State Grant	2017 - Conservation Delivery (Cass SWCD)	\$18,275.00	\$18,275.00	12/29/2017	N

## Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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## 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
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## Grant Activity

Grant Activity - District Operations			
Description	District Operations		
Category	AGRICULTURAL PRACTICES		
Start Date	1-Jan-17	End Date	29-Dec-17
Has Rates and Hours?	No		
Actual Results	Operated Cass SWCD District as per Annual Plan		

## Grant Attachments

Document Name	Document Type	Description
2017 Annual Plan	Grant	2017 - Conservation Delivery (Cass SWCD)
2017 SWCD Programs and Operations Addendum	Grant Agreement	2017 Programs and Operations Addendum - Cass SWCD
2017 SWCD Programs and Operations Addendum executed	Grant Agreement	2017 Programs and Operations Addendum - Cass SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/26/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/30/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/12/2018

Document Name	Document Type	Description
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/12/2018
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/12/2018
<b>Final Financial for 2017</b>	Grant	2017 - Conservation Delivery (Cass SWCD)



## Grant All-Detail Report Cost Share 2017

Grant Title - 2017 - State Cost-Share Fund (Cass SWCD)

Grant ID - P17-4451

Organization - Cass SWCD

Original Awarded Amount	\$8,347.00	Grant Execution Date	
Required Match Amount	\$2,086.75	Original Grant End Date	12/31/2018
Required Match %	25%	Grant Day To Day Contact	John Ringle
Current Awarded Amount	\$8,347.00	Current End Date	12/31/2018

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$8,347.00	\$8,347.00	\$0.00
Total Match Amount	\$8,347.00	\$13,310.00	\$-4,963.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$16,694.00</b>	<b>\$21,657.00</b>	<b>\$-4,963.00</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
2017 Cost Share	Streambank or Shoreline Protection	Current State Grant	2017 - State Cost-Share Fund (Cass SWCD)	\$8,347.00	\$8,347.00	1/5/2017	N
2017 Landowner Match	Streambank or Shoreline Protection	Landowner Fund	Landowner Owner Match Requirement	\$8,347.00	\$13,310.00	11/26/2016	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	2	2	50 LINEAR FEET	50 LINEAR FEET
580 - Streambank and Shoreline Protection	1	1	80 LINEAR FEET	80 LINEAR FEET
580 - Streambank and Shoreline Protection	3	3	60 LINEAR FEET	60 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
SEDIMENT (TSS)	11.89	TONS/YR
SOIL (EST. SAVINGS)	14.45	TONS/YR
PHOSPHORUS (EST. REDUCTION)	10.09	LBS/YR



## Grant Activity

Grant Activity - 2017 Cost Share			
Description	2017 Cost Share		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	17-Aug-16	End Date	31-Dec-17
Has Rates and Hours?	No		
Actual Results	Installed 250 lineal feet of Coir Logs at four designated project sites to stabilize shoreline on four private landowner parcels.		

Activity Action - Timmerman Shoreline Stabilization Project			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installation of 60 lineal feet of Coir Logs		
Proposed Size / Units	60.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	60.00 LINEAR FEET	Installed Date	2-Nov-16
Mapped Activities	1 Line(s)	Technical Assistance Provider	

Final Indicator for Timmerman Shoreline Stabilization Project			
Indicator Name	SEDIMENT (TSS)	Value	2.97
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Ponto Lake		

Final Indicator for Timmerman Shoreline Stabilization Project			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.97
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Ponto Lake		

Final Indicator for Timmerman Shoreline Stabilization Project			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.52
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Ponto Lake		

Activity Action - Tilbury Shoreline Stabilization			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installation of 50 lineal feet of Coir Logs		
Proposed Size / Units	50.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	50.00 LINEAR FEET	Installed Date	21-Sep-16
Mapped Activities	1 Line(s)	Technical Assistance Provider	

#### Final Indicator for Tilbury Shoreline Stabilization

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Deep Portage		

#### Final Indicator for Tilbury Shoreline Stabilization

Indicator Name	SEDIMENT (TSS)	Value	2.48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Deep Portage		

#### Final Indicator for Tilbury Shoreline Stabilization

Indicator Name	SOIL (EST. SAVINGS)	Value	2.48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Deep Portage		

Activity Action - Tanner Shoreline Stabilization Project			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Install 60 lineal feet of Coir Logs		
Proposed Size / Units	60.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	60.00 LINEAR FEET	Installed Date	21-Oct-16
Mapped Activities	1 Line(s)	Technical Assistance Provider	

#### Final Indicator for Tanner Shoreline Stabilization Project

Indicator Name	SEDIMENT (TSS)	Value	2.48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)

Waterbody	Big Deep		
Final Indicator for Tanner Shoreline Stabilization Project			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Big Deep		
Final Indicator for Tanner Shoreline Stabilization Project			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Big Deep		

Activity Action - Olsen Shoreline stabilization Project			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installation of 80 lineal feet of Coir Logs.		
Proposed Size / Units	80.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	80.00 LINEAR FEET	Installed Date	26-Nov-16
Mapped Activities	1 Line(s)	Technical Assistance Provider	

Final Indicator for Olsen Shoreline stabilization Project			
Indicator Name	SEDIMENT (TSS)	Value	3.96
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Norway Lake		
Final Indicator for Olsen Shoreline stabilization Project			
Indicator Name	SOIL (EST. SAVINGS)	Value	3.96
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Norway Lake		
Final Indicator for Olsen Shoreline stabilization Project			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.37
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Norway Lake		

Grant Activity - 2017 Landowner Match		
Description	2017 Landowner Match	
Category	STREAMBANK OR SHORELINE PROTECTION	
Start Date	17-Aug-16	End Date
Has Rates and Hours?	No	
Actual Results	Installed 250 lineal feet of Coir Logs at four designated project sites to stabilize shoreline on four private landowner parcels.	

### Grant Attachments

Document Name	Document Type	Description
<b>2017 SWCD Programs and Operations Addendum</b>	Grant Agreement	2017 Programs and Operations Addendum - Cass SWCD
<b>2017 SWCD Programs and Operations Addendum executed</b>	Grant Agreement	2017 Programs and Operations Addendum - Cass SWCD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/09/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/27/2018
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/04/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/26/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/09/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/11/2018
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/12/2018
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/27/2018
<b>Final Financial</b>	Grant	2017 - State Cost-Share Fund (Cass SWCD)



## Grant All-Detail Report SWCD Local Capacity Services 2017

**Grant Title** - 2017 - SWCD Local Capacity Services (Cass SWCD)

**Grant ID** - P17-2264

**Organization** - Cass SWCD

Original Awarded Amount	<b>\$118,000.00</b>	Grant Execution Date	<b>3/2/2017</b>
Required Match Amount	\$0.00	Original Grant End Date	12/31/2019
Required Match %	0%	Grant Day To Day Contact	John Ringle
Current Awarded Amount	\$118,000.00	Current End Date	12/31/2019

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$118,000.00	\$118,000.00	\$0.00
Total Match Amount	\$18,000.00	\$18,000.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$136,000.00</b>	<b>\$136,000.00</b>	<b>\$0.00</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
Accesss Abandonment	Special Projects	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$0.00			N
Culvert Replacement	Special Projects	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$0.00			N
Deerfield Township Well Testing	Groundwater	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$0.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
District Communications	Education/Information	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$18,000.00	\$18,000.00	12/7/2017	N
Local capacity increase	Non-Structural Management Practices	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$60,000.00	\$60,000.00	12/11/2019	N
Private Forest Management	Forestry Practices	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$0.00			N
Shoreland Buffer	Streambank or Shoreline Protection	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$0.00			N
Technical Specialist-Water Resources	Agricultural Practices	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$20,000.00	\$20,000.00	12/25/2017	N
Watershed Specilaist	Project Development	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$20,000.00	\$20,000.00	12/25/2017	N
Weberg Redesign	Special Projects	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$0.00			N
Well Sealing	Groundwater	Current State Grant	2017 - SWCD Local Capacity Services (Cass SWCD)	\$0.00			N
soil erosion	Non-Structural Management Practices	Local Fund	County Match	\$18,000.00	\$18,000.00	12/7/2017	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
147M - Forestry Management	1	1	68 AC	68 AC
147M - Forestry Management	1	2	158 AC	158 AC
147M - Forestry Management	1	2	62.6 AC	62.6 AC
147M - Forestry Management	1	1	60 AC	60 AC
554 - Drainage Water Management	1	1	20 LINEAR FEET	20 LINEAR FEET
351 - Well Decommissioning	1	1	1 COUNT	1 COUNT
392M - Fish Management	1	1	16 LINEAR FEET	16 LINEAR FEET

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	1	1	70 LINEAR FEET	70 LINEAR FEET
147M - Forestry Management	1	1	177 AC	177 AC
147M - Forestry Management	1	1	62 AC	62 AC
155M - Storm Water Retention Basins	2	2	3 AC	3 AC
580 - Streambank and Shoreline Protection	1	1	100 LINEAR FEET	100 LINEAR FEET
147M - Forestry Management	1	1	271 AC	271 AC
147M - Forestry Management	1	1	178 AC	178 AC
580 - Streambank and Shoreline Protection	1	1	40 LINEAR FEET	40 LINEAR FEET
147M - Forestry Management	1	1	119 AC	119 AC
351 - Well Decommissioning	23		23 COUNT	23 COUNT

### 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
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## Grant Activity

### Grant Activity - Access Abandonment

Description	The decommissioning of a Public Water Access within the City of Longville. Area would drain 4 acres of stormwater directly into Girl Lake. Cost Shared with the city to eliminate this structure.		
Category	SPECIAL PROJECTS		
Start Date	2-Sep-19	End Date	29-Feb-20
Has Rates and Hours?	No		
Actual Results	Concrete boat ramp was removed and stormwater infiltration project was installed. New DNR access to the east will take all boats.		

### Activity Action - Longville City Access Decommissioning

Practice	554 - Drainage Water Management	Count of Activities	1
Description	Decommissioning of Longville City Boat Access.		
Proposed Size / Units	20.00 LINEAR FEET	Lifespan	Unknown
Actual Size/Units	20.00 LINEAR FEET	Installed Date	5-Sep-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

### Grant Activity - Culvert Replacement

Description	Replace a 12" culvert between Deep Portage Lake and Little Portage Lake, with a 3 foot squashed concrete culvert and the installation of fish wiers downstream. This project is restablising fish passage between the two lakes for the first time in 60 years.		
Category	SPECIAL PROJECTS		
Start Date	3-Sep-19	End Date	25-Oct-19
Has Rates and Hours?	No		
Actual Results	Replacement of 12' corrugated culvert and enlarge to a 3 foot diameter squashed concrete culvert. Will allow fish passage again.		



Activity Action - Deep Portage Road Culvert Replacement			
Practice	392M - Fish Management	Count of Activities	1
Description	Replacement of 12' corrugated culvert and enlarge to a 3 foot diameter squashed concrete culvert. Fish Passage project		
Proposed Size / Units	16.00 LINEAR FEET	Lifespan	Unknown
Actual Size/Units	16.00 LINEAR FEET	Installed Date	11-Dec-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Grant Activity - Deerfield Township Well Testing			
Description	Individual Well testing for 23 separate wells located within the Pineland Sands aquifer.		
Category	GROUNDWATER		
Start Date	1-Jul-19	End Date	31-Jul-19
Has Rates and Hours?	No		
Actual Results	Tested 23 private well samples for Nitrate and E. Coli. All are located within Central Sands. Results indicated that there were 4 wells with elevated levels of Nitrate and 1 that was 3 times the safe level of 10 PPM.		

Activity Action - Nitrate and well testing			
Practice	351 - Well Decommissioning	Count of Activities	23
Description	Nitrate and E. coli testing in 23 individual drinking water wells located in Deerfield Township. These wells are located within the Pineland Sands Aquifer and nearland conversion areas.		
Proposed Size / Units	23.00 COUNT	Lifespan	Unknown
Actual Size/Units	23.00 COUNT	Installed Date	25-Jul-19
Mapped Activities	No	Technical Assistance Provider	

Grant Activity - District Communications			
Description	District Communications including contracting with a third party vendor(s) to provide community outreach and publicize the Cass SWCD via e-letters and news releases detailing the District activities in 2017.		
Category	EDUCATION/INFORMATION		
Start Date	1-Jun-17	End Date	04-Jan-18
Has Rates and Hours?	No		
Actual Results	Due to not needing a new contract with LLAWF, the funds were allocated as a match to the Cass County Highway Dept. terrestrial invasive species management project (Noxious weeds). 269.3 miles of roads were treated and all sites were GPS located.		

Grant Activity - Local capacity increase			
Description	Cost share practices up to 75% with landowners to increase the installation of BMP's to reduce soil erosion and improve stormwater management and control. Also available to landowners for any of the SWCD approve cost-share incentive categories specified in our annual work plan.		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	2-Jan-17	End Date	18-Dec-19
Has Rates and Hours?	No		
Actual Results	The Local Capacity funds were used to place 1155.6 acres into Forest Stewardship Plans, install 210 ft. of shoreland buffers, Complete well testing on 23 parcels in the Pineland Sands Aquifer region of Hiram and Deerfield Townships, conduct a lake water testing project for the Pickerell Lake Association for determining impact of local septage application. A project with the Portage Lake Road Association replace and enlarged a culvert for fish passage between Little Portage and Deep Portage Lakes. A major stormwater retention and treatment project in the City of Longville done in cooperation with the City. and work with Shingobee Township on a Hickenbottom drain and noxious weed management were conducted. Although not required, \$27,171.05 in landowner matching funds were leveraged.		

Grant Activity - Private Forest Management			
Description	Cost share with Private landowners for the purpose of getting forest acres under a management plan.		
Category	FORESTRY PRACTICES		
Start Date	2-Jan-17	End Date	31-Dec-19
Has Rates and Hours?	No		
Actual Results	Resulted in 1,156 acres of PFM plans being written.		

Activity Action - Lee PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost shared with Jon Lee for creation of new PFM Plan		
Proposed Size / Units	271.00 AC	Lifespan	10 Years
Actual Size/Units	271.00 AC	Installed Date	8-Feb-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Activity Action - Bode PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost share with Roland Bode to create a PFM Plan.		
Proposed Size / Units	68.00 AC	Lifespan	10 Years
Actual Size/Units	68.00 AC	Installed Date	6-May-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Activity Action - Hron PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost Share with William Hron to create a PFM Plan		
Proposed Size / Units	62.60 AC	Lifespan	10 Years
Actual Size/Units	62.60 AC	Installed Date	3-Sep-19
Mapped Activities	2 Polygon(s)	Technical Assistance Provider	

Activity Action - O'Keefe PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost shared with Pat O'Keefe to create a PFM Plan		
Proposed Size / Units	119.00 AC	Lifespan	10 Years
Actual Size/Units	119.00 AC	Installed Date	25-Jul-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Activity Action - Rutsen PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost Share with John Rutsen to create a PFM Plan.		
Proposed Size / Units	62.00 AC	Lifespan	10 Years
Actual Size/Units	62.00 AC	Installed Date	3-Sep-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Activity Action - Jepperson PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost Share with Craig Jepperson to create a PFM Plan.		
Proposed Size / Units	60.00 AC	Lifespan	10 Years
Actual Size/Units	60.00 AC	Installed Date	4-Nov-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Activity Action - Strack PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost share with Tim Strack to create a PFM Plan.		
Proposed Size / Units	158.00 AC	Lifespan	10 Years
Actual Size/Units	158.00 AC	Installed Date	4-Nov-19
Mapped Activities	2 Polygon(s)	Technical Assistance Provider	

Activity Action - Tauber PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost Share with Mike Tauber to create PFM plan.		
Proposed Size / Units	177.00 AC	Lifespan	10 Years
Actual Size/Units	177.00 AC	Installed Date	4-Nov-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Activity Action - Johnson PFM Plan			
Practice	147M - Forestry Management	Count of Activities	1
Description	Cost Share with Greg Johnson to create PFM Plan.		
Proposed Size / Units	178.00 AC	Lifespan	10 Years
Actual Size/Units	178.00 AC	Installed Date	4-Nov-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Grant Activity - Shoreland Buffer			
Description	Establishment of Shoreline Buffers on Gull Lake as part of a partnership with GCOLA. The SWCD District cost shared 50 % on all of these projects		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	2-Jan-17	End Date	31-Dec-19
Has Rates and Hours?	No		
Actual Results	Installation of 210 lineal feet of Shoreline Buffers on Gull Lake.		

Activity Action - Whitmer Shoreland Buffer			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Cost Share and installation of a 70 lineal foot Buffer on Gull Lake.		
Proposed Size / Units	70.00 LINEAR FEET	Lifespan	In Perpetuity
Actual Size/Units	70.00 LINEAR FEET	Installed Date	3-Oct-19
Mapped Activities	1 Line(s)	Technical Assistance Provider	

Activity Action - Johnfry Shoreland Buffer			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Cost Share and installation of 100 lineal feet of shoreline buffer on Gull Lake.		
Proposed Size / Units	100.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	100.00 LINEAR FEET	Installed Date	3-Sep-19
Mapped Activities	1 Line(s)	Technical Assistance Provider	

Activity Action - Johnston Shoreland Buffer			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Cost Share on installation of Johnston Buffer.		
Proposed Size / Units	40.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	40.00 LINEAR FEET	Installed Date	4-Nov-19
Mapped Activities	1 Line(s)	Technical Assistance Provider	

Grant Activity - Technical Specialist-Water Resources			
Description	Technical Specialist-Water Resources staff to work with private landowners to install cost-share practices. Rate of \$48.22/hr. for 415 hrs.		
Category	AGRICULTURAL PRACTICES		
Start Date	2-Jan-17	End Date	07-Dec-17
Has Rates and Hours?	Yes		
Actual Results	Technical Resource Specialist worked with private landowners to develop plans to install shoreland buffers. Worked with Cass County Highway Dept., Township Road supervisors, Chippewa National Forest and MNDNR to continue to develop a comprehensive culvert inventory.		

Grant Activity - Watershed Specilaist			
Description	Watershed Specilaist. Devote staff time to work on Water treatment and stormwater projects. Provide staffing to develop, administrate and coordinate projects that involve cost-share related to stormwater management. Corresponding plans are the Cass County Comprehensive Plan and the Cass County Water Plan. Rate of \$48.22/hr. for \$415 hrs.		
Category	PROJECT DEVELOPMENT		
Start Date	2-Jan-17	End Date	
Has Rates and Hours?	Yes		
Actual Results	Watershed Specialist worked on Watershed Plans on 6 HUC 12 watersheds in Cass County. Worked on stormwater plans, erosion control plans and stormwater management. Developed and administrated projects that will involve cost-share related to stormwater management.		

Grant Activity - Weberg Redesign			
Description	Addition of 12 foot of Hickenbottom Vertical drain to existing project. Original installation was not deep enough to allow water to infiltrate.		
Category	SPECIAL PROJECTS		
Start Date	1-May-19	End Date	31-May-19
Has Rates and Hours?	No		
Actual Results	Installed 12 feet of 12" Hickenbottom Vertical Drain tile. This project consisted of adding 6 feet to both vertical drains.		

Activity Action - Weberg redesign			
Practice	155M - Storm Water Retention Basins	Count of Activities	2
Description	The addition of 12 foot of vertical drain tile.		
Proposed Size / Units	3.00 AC	Lifespan	Unknown
Actual Size/Units	3.00 AC	Installed Date	16-May-19
Mapped Activities	2 Point(s)	Technical Assistance Provider	

Grant Activity - Well Sealing			
Description	Cost Share with private landowners to seal unused wells.		
Category	GROUNDWATER		
Start Date	2-Jan-17	End Date	31-Dec-19
Has Rates and Hours?	No		
Actual Results	Sealed one well with private landowner.		

Activity Action - Uhrich Well Sealing			
Practice	351 - Well Decommissioning	Count of Activities	1
Description	Cost Share with James Uhrich on private well sealing.		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	1.00 COUNT	Installed Date	4-Nov-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Grant Activity - soil erosion			
Description	County Match to District Activities that could be aerial photography for private landowners for erosion control and stormwater management, or invasive weed control on private agricultural parcels as outlined in our Annual District Work Plan.		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	2-Jan-17	End Date	31-Dec-19
Has Rates and Hours?	Yes		
Actual Results	Worked with Cass County Highway Dept. to control noxious weeds along County Roads and adjacent agriculture land. Used the County Match		

## Grant Attachments

Document Name	Document Type	Description
<b>2017 SWCD Local Capacity Services</b>	Grant Agreement	2017 SWCD Local Capacity Services - Cass SWCD
<b>2017 SWCD Local Capacity Services executed</b>	Grant Agreement	2017 SWCD Local Capacity Services - Cass SWCD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/14/2020



Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/11/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/27/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/22/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/01/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/23/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/04/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/23/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/27/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/12/2018
County Match Memo	Grant	2017 - SWCD Local Capacity Services (Cass SWCD)
Final Financial	Grant	2017 - SWCD Local Capacity Services (Cass SWCD)
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/24/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/05/2017
work plan extension request	Journal	Journal Dated - 02/16/2017