

Environment and Natural Resources Trust Fund (ENRTF) M.L. 2016 Work Plan

Date of Report: February 4, 2016

Date of Next Status Update Report: December 2016

Date of Work Plan Approval:

Project Completion Date: June 30, 2019

Does this submission include an amendment request? No

PROJECT TITLE: Lincoln Pipestone Rural Water System Land Acquisition for Wellhead Protection

Project Manager: Jason Overby

Organization: Lincoln Pipestone Rural Water

Mailing Address: 415 E. Benton

City/State/Zip Code: Lake Benton, MN 56149

Telephone Number: (507) 368-4248 Email Address: lprw@itctel.com

Web Address: lprw.com

Location:

Serving 10 counties in SW Minnesota: Jackson, Lac qui Parle, Lincoln, Lyon, Murray, Nobles, Pipestone, Redwood, Rock, and Yellow Medicine Counties.

Total ENRTF Project Budget:	ENRTF Appropriation:	\$1,500,000
	Amount Spent:	\$0

Balance: \$1,500,000

Legal Citation: M.L. 2016, Chp. xx, Sec. xx, Subd. xx

Appropriation Language:

Page 1 of 16 02/19/2016 Subd. 09f - DRAFT

- I. PROJECT TITLE: Lincoln Pipestone Rural Water System Land Acquisition for Wellhead Protection
- **II. PROJECT STATEMENT:** Lincoln Pipestone Rural Water (LPRW) is a Regional Governmental Rural Water System entrusted to guard and protect its drinking water supply for the health and welfare of 10 counties, 38 cities, 4,500 customers and more than 50,000 people in Greater Southwest Minnesota.

Most (60%) of its water comes from public wells and is situated among highly row-cropped agricultural land. Excess nutrients and chemical applications from these lands move into the water environment and thus into the aquifers that supply the Lincoln Pipestone Rural Water drinking water well fields. These contaminants degrade the water quality from these aquifers. Minnesota Regulations 4720.5100 et seq. mandate water suppliers protect their drinking water supply against contamination and have an action plan called a Well Head Protection Plan. Conservation steps to guard against agricultural contamination can help but most have severe limitations thereby making them inadequate for protecting drinking water supplies. Filter strip easements only partially protect from contaminates entering streams and aquifers, and in some cases, are bypassed from tiling or excess runoff that discharges directly into streams.

The Lincoln Pipestone Rural Water plan is to start acquiring 200 +/- of these vulnerable acres to be placed in grassland adhering to the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines. Other important long-term benefits from grassland restoration are that grass cover retains snow and rainfall providing moisture retention and infiltration therefrom into the aquifer without introduction of contaminants while directly reducing the effects of drought. In turn this promotes habit for wildlife and creation for hiking and hunting. Also, some of the acquired lands may have the potential to allow the well field footprints to be expanded with additional locations for wells, thereby mitigating aquifer and overall well drawdowns thus firming up and further protecting the drinking water supply from the effects of drought and even from very localized contaminate influence found on a well-to-well basis.

III. OVERALL PROJECT STATUS UPDATES:

Project Status as of: December 2016

Project Status as of: June 2017

Project Status as of: December 2017

Project Status as of: June 2018

Project Status as of: December 2018

Overall Project Outcomes and Results: June 2019

IV. PROJECT ACTIVITIES AND OUTCOMES:

ACTIVITY 1: Acquisition(s) of Vulnerable Land Parcels.

Description: Acquisition in Fee Title Ownership of 200 +/- acres out of 5,700 acres (see table below) of vulnerable drinking water supply land that have been identified in the Lincoln Pipestone Rural Water Wellhead Protection Plan so as to hold maximum ecological control and help in the furtherance of Lincoln Pipestone Rural Water's Wellhead Protection Plan. The 5,700 acres of vulnerable drinking water supply land was determined by means of calculating the total number of acres that contained parcels of land that fall within the vulnerable boundary. Acquisition will be through negotiated voluntary, direct purchases.

The activity at this stage includes dialogues with landowners who have been identified by Lincoln Pipestone Rural Water's Wellhead Protection Plan as being among the highest in priority with the most vulnerable land. Lincoln Pipestone Rural Water has identified 13 parcels and 12 landowners (see Parcel List attached) as the highest in priority.

Conversations will ensue, beginning with the highest priority parcel owner, to determine the feasibility and landowner willingness to engage in the program with Lincoln Pipestone Rural Water. Dialogues will begin with the landowner of the highest parcel priority and will work through the parcel priority list accordingly. Once negotiations have determined the most suitable land acquisition opportunities, the highest prospect of mitigating vulnerable lands, Lincoln Pipestone Rural Water will advance to the point of the acquisition of properties.

Lincoln Pipestone Rural Water will follow state policy for any land acquisition using LCCMR funds and will pursue additional resources to stretch LCCMR funds for this intended use.

Lincoln Pipestone Rural Water System Vulnerable Drinking Water Supply Lands

Wellhead	Total Acres	Acres Owned	Acres Still Vulnerable
Verdi	3276.79	246.84	3029.95
Holland	2501.9	611.2	1890.7
N. Holland	854.45	9.97	844.48
Total	6633.14	868.01	5765.13

Summary Budget Information for Activity 1: ENRTF Budget: \$ 1,363,000

Amount Spent: \$0

Balance: \$1,363,000

Outcome	Completion Date
1. Acquire in fee title the 200 +/- acres of vulnerable drinking water supply land	June 30, 2019
identified in the Lincoln Pipestone Rural Water Wellhead Protection Plan.	

Activity Status as of: December 2016

Activity Status as of: June 2017

Activity Status as of: December 2017

Activity Status as of: June 2018

Activity Status as of: December 2018 Final Report Summary: June 2019

ACTIVITY 2: Professional Services for Acquisition

Description: Lands acquired with this appropriation will be from willing sellers and be identified by the

Department of Health as targeted vulnerable lands for wellhead protection.

The acquisition process includes the costs and steps associated with real estate transactions, land appraisal, surveying, closing costs, title insurance, recording fees, deed tax, and any other similar transactions necessary for the acquisition.

Summary Budget Information for Activity 2: ENRTF Budget: \$63,000

Amount Spent: \$0

Balance: \$ 63,000

Outcome	Completion Date
1. Complete real estate transactions, appraisal and review, survey, attorney, closing	June 30, 2019
costs, title insurance, recording fees & deed tax, etc.	

Activity Status as of: December 2016

Activity Status as of: June 2017

Activity Status as of: December 2017

Activity Status as of: June 2018

Project Status as of: December 2018
Final Report Summary: June 2019

ACTIVITY 3: Restoration of Acquired Parcels for well head protection.

Description: Acquired land will be restored to non-contaminating moisture retaining, drought resistant, grasslands. Qualified Land Restoration Specialists will be contracted for implementing these restorations.

In the long term, Fee Title Ownership will give Lincoln Pipestone Rural Water absolute and perpetual control over these targeted vulnerable lands, to place and keep them in conservation practices that prevent the entrance of contaminates from these lands into the Lincoln Pipestone Rural Water drinking water supply that serves more than 50,000 people living in Greater Southwest Minnesota.

In contrast to serving as a row crop, the restoration of the acquired lands, having adhered to the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines, will help reduce the effects of drought as their cover retain snow and rainfall and will enhance moisture retention and infiltration into the ground water supply. If the land purchased is cropland, it will be converted to native planting. The planting will follow the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines for the planting and management of the project. Lincoln Pipestone Rural Water will follow the requirements of the management plan. Along with the Lincoln Pipestone Rural Water goals to protect the ground water, removing nutrients and pollutants, the planting would provide excellent opportunities for pollination and wildlife habitat.

The Soil and Water Conservation District staff will assist with any Board of Water and Soil Resources (BWSR) Management requirements. Lincoln Pipestone Rural Water will follow the conservation plan provided by the Soil and Water Conservation District office and use a seed mix approved by the Minnesota Board of Water and Soil Resources (BWSR), Native Vegetative specialist, Dan Shaw. Lincoln Pipestone Rural Water will utilize cost share, if provided, and accept responsibility for the costs. Lincoln Pipestone Rural Water will rely on the Soil and Water Conservation District staff for their expertise to evaluate and follow their recommendations, both for initial and follow up years. The Conservation Corps will be contacted for any assistance they may have to offer. All practices performed and costs will be kept on file for the required time.

Summary Budget Information for Activity 3: ENRTF Budget: \$74,000

Amount Spent: \$ 0 Balance: \$ 74,000

Outcome	Completion Date
1. Restore 200+/- acres designated acquired agricultural land through a bid and contract	June 30, 2019
process with Qualified Land Restoration Specialist	

Activity Status as of: December 2016

Activity Status as of: June 2017

Activity Status as of: December 2017

Activity Status as of: June 2018

Project Status as of: December 2018

Final Report Summary: June 2019

V. DISSEMINATION:

Description: Lincoln Pipestone Rural Water will disseminate the land acquisition for wellhead protection through such means as:

- Lincoln Pipestone Rural Water Website
- On-site signage
- Lincoln Pipestone Rural Water newsletter
- United States Department of Agriculture newsletter
- Lincoln County Soil and Water Conservation District quarterly newsletter
- Pipestone County Soil and Water Conservation District quarterly newsletter

Status as of: December 2016

Status as of: June 2017

Status as of: December 2017

Status as of: June 2018

Project Status as of: December 2018

Final Report Summary: June 2019

VI. PROJECT BUDGET SUMMARY:

A. ENRTF Budget Overview:

Budget Category	\$ Amount	Overview Explanation				
Professional/Technical/Service	\$74,000	Restoration, Qualified Land Restoration Specialists: fall and				
Contracts:		spring tillage, packing/rolling, spraying, and seeding				
		(200 acres – approximately \$24,000)				
		Seed (CP-25 Per NRCS 643 Standard for RIM sites), Yellow tag				
		"source identified from nearest available source", seed will				
		consist of at least 15 native species with a minimum of 5				
		grasses and 5 forbs. Minimum grass seeding rate of 7.0 PLS				
		lb/ac. Minimum forb seeding rate of 16.0 PLS oz/ac. Mixture				
		will result in a minimum 35 PLS seed per sq. foot total. Grasses				
		will comprise no more than 70% of the mixture				
		(approximately \$50,000)				
Fee Title Acquisition:	\$1,363,000	Lincoln Pipestone Rural Water will purchase approximately				
		200 acres.				
Professional Services for	\$63,000	Consulting firms will provide necessary: surveys, appraisals,				
Acquisition:		legal and closing costs, title insurance, environmental reviews,				
		architectural reviews and historical reviews for acquisition				
		transactions.				
TOTAL ENRTF BUDGET:	\$1,500,000					

Explanation of Use of Classified Staff: N/A

Explanation of Capital Expenditures Greater Than \$5,000: N/A

Number of Full-time Equivalents (FTE) Directly Funded with this ENRTF Appropriation: 0

Number of Full-time Equivalents (FTE) Estimated to Be Funded through Contracts with this ENRTF

Appropriation: 0.5

B. Other Funds:

	Source of Funds	\$ Amount Proposed	\$ Amount Spent	Use of Other Funds
Non-st	+	Proposeu	Spent	Ose of Other Fullus
•	Lincoln Pipestone Rural Water (cash);	\$26,220	\$0	 Lincoln Pipestone Rural Water Staff Salary: Operations Manager (0.1 FTE for three years)
•	Lincoln Pipestone Rural Water (cash);	\$37,080	\$0	Water Resource Operators (0.2 FTE for three years);
•	Lincoln Pipestone Rural Water (cash);	\$65,000	\$0	Development Services Inc. Implementation Consultant (Contract for three years);
•	Lincoln Pipestone Rural Water (cash);	\$15,000	\$0	Two (2) Lincoln Pipestone Rural Water System Board members (0.1 FTE efforts for three years);
•	Lincoln Pipestone Rural Water (cash);	\$810	\$0	Lincoln Pipestone Rural Water System Fleet Vehicles and mileage expenses (travel 500 miles/month at Federal reimbursable rate for three years);
•	Lincoln County Farm Services Agency and Pipestone County Farm Services Agency, Lincoln County Soil and Water Conservation, Pipestone County Soil and Water (in-kind).	\$1200	\$0	Advice, education, and communications with targeted landowners
	TOTAL OTHER FUNDS:	\$145,310	\$0	

VII. PROJECT STRATEGY:

A. Project Partners – Partners Not Receiving Trust Fund Monies:

The following team members, with their individual and combined expertise, will partner to work with targeted landowners to present the protection plan program and needs, and to negotiate for voluntary purchase of lands.

- **Jason Overby,** *Lincoln Pipestone Rural Water Acting CEO / Operations Manager* Project management.
- **Joe Weber, Frank Engels, and Rod Spronk,** *Lincoln Pipestone Rural Water Board Members/Farmers* Negotiations with landowners.

Jared Beck, Lincoln Pipestone Rural Water Geographic Information System (GIS) and Resource Specialist
 - Assisting with acquisition of vulnerable lands.

A. Project Partners – Partners Not Receiving Trust Fund Monies (continued):

- Ron Schramel, Consulting Attorney Outside title advice.
- Randy Kraus, Lincoln County Soil and Water Conservation District and Lincoln Pipestone Rural Water Board member Assisting with restoration of acquired vulnerable lands.
- **Nicole Schwebach** and **Adam Ossefoort**, *Pipestone County Soil and Water Conservation District* Assisting with restoration of acquired vulnerable lands.
- **Aaron Meyer**, *Minnesota Rural Water Association Wellhead Protection Specialist* Assisting with restoration of acquired vulnerable lands.
- **Richard Soule**, *Minnesota Department of Health Source Water Protection Specialist* Assisting with restoration of acquired vulnerable lands.

B. Project Impact and Long-term Strategy:

Through Fee Title Ownership Lincoln Pipestone Rural Water will gain absolute and perpetual control over the targeted vulnerable lands, and will place, and maintain, them in following the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines preventing the entrance of contaminates from these lands into the Lincoln Pipestone Rural Water drinking water supply. The Lincoln Pipestone Rural Water drinking water supply serves more than 50,000 people living in Greater Southwest Minnesota. The acquired lands, once restored, will help to reduce the effects of drought as their cover retain snow and rainfall and enhances moisture retention and infiltration into the ground water supply in contrast to serving as row crop. Further grasslands, permanently restored, perpetually promote habitat and recreational use. Any net profits as required generated off this land will be set aside by Lincoln Pipestone Rural Water to be used for further acquisition of wellhead protection. If the land purchased is cropland, it will be converted to native planting. The planting will follow the Minnesota Board of Water and Soil Resources Board of Water and Soil Resources (BWSR) Native Vegetation guidelines for the planting and management of the project.

C. Funding History for Land Acquisition:

Wellfield	Location	Date	Cost	Funding Source		
North Holland	Holland 108-46-25SE		\$25,000	Part of loan and grant from		
	(Approx. 10 acres)			RUS for Holland Plant Project.		
South Holland	107-45-7 (S 1/2, NE 1/4)	10/1/90	\$115,490	Funded with RUS loan and		
	(Approx. 80 acres)			grant for Holland Plant Project		
South Holland	South Holland 107-45-7 (SE 1/4)		\$456,000	RUS Funds for Holland Plant		
	(Approx. 149 acres)			Project.		
South Holland	107-45-7 (NW 1/4) (Lots 1 & 2)	12/29/99	\$397,069	RUS loan and grant		
	(Approx. 200 acres)					
Verdi	109-47-36W & 109-47-25W	2/12/92	\$295,000	LPRW bond sales		
	(236 acres)					
Verdi	Wellsites	6/1/79	\$10,000	FMHA loan and grant		
	(109-47-36 & 109-47-25)					

VIII. FEE TITLE ACQUISITION/CONSERVATION EASEMENT/RESTORATION REQUIREMENTS:

A. Parcel List: See attached Parcel List.

B. Acquisition/Restoration Information:

Fee Title Acquisition

1. Describe the selection process for identifying and including proposed parcels on the parcel list, including explanation of the criteria and decision-making process used to rank and prioritize parcels.

Lincoln Pipestone Rural Water faces a number of water quality issues within its Well Fields, however, the main culprit has always been rising nitrate levels. Nitrates in drinking water at levels above 10 parts per million (ppm) pose a health risk for humans, particularly infants less than six months of age. The Minnesota Safe Drinking Water Rules require public water suppliers to monitor quarterly for at least one year for nitrates, when levels above 5.4 ppm are detected. Lincoln Pipestone Rural Water tests nitrate levels quarterly at two service area locations (Holland and Verdi) known to harbor higher than normal nitrate levels residing in their respective aquifers.

Due to the shallowness of the aquifers, the well fields at Holland and Verdi are more vulnerable to nitrate contamination than other Lincoln Pipestone Rural Water sources. For example, the Verdi Well Field, having unique geological characteristics, can recharge from precipitation very quickly. Noting that the surrounding land-use is primarily agricultural based, nitrate contamination is a definite concern.

Holland Well Field, as well, has a very shallow water table, often approaching the ground surface. Nitrate contamination consequently is an issue that Lincoln Pipestone Rural Water must deal with at the Holland Wellfield. Nitrate levels at the Holland and North Holland Well Fields continue to be high, but are relatively stable. The incorporation of the reverse osmosis treatment process has solved the problem short-term. Unfortunately, the reverse osmosis wastewater creates a discharge issue for Lincoln Pipestone Rural Water. Currently Lincoln Pipestone Rural Water is searching for different options to solve this problem.

The Verdi Well Field merits higher priority because:

- A. Annual average of nitrates are below the 10 mg/L but the aquifer is at risk of exceeding the Maximum Contaminant Level.
- B. The Verdi Well Field does not currently need treatment, so from an operations and management standpoint, the wellfield is much more valuable than Holland.
- C. Due to the discharge from treatment process of high nitrate water at Holland and North Holland, pumping out of those two wellfields may be significantly reduced in the near future.

Land Use is transient and can change at any time. It should only be given significant weight when there is a large existing source of nitrogen (i.e. a feedlot).

Parcels that lie within a greater proportion of the Wellhead Protection Area should have higher priority than those that lie outside of it.

Parcels within the 10-year Capture Zone of the wells should have a higher priority.

Parcels that are closer and directly "upstream" of the wells should have higher priority.

Parcels "upstream" of major producing wells should have greater priority than ones upstream of lower producing wells.

It is important to note that as this process evolves and more information becomes available, the parcel priority list may change. Focused recharge at boundaries between upland clay-type soils and lowland soils, the disruption of de-nitrification from irrigation, and nitrogen "hotspots" that could, at some point, become identified (such as old feedlots) may change the way the parcels are prioritized.

- 2. List all adopted state, regional, or local natural resource plans in which the lands included in the parcel list are identified. Include a link to the plan if one is available.
 - Lincoln Pipestone Rural Water (LPRW) Wellhead Protection Plan
 - Lincoln Pipestone Rural Water (LPRW) Water Plan
 - Lincoln County Water Management Plan http://www.lincolnswcd.net/WaterPlan.htm
 - Pipestone County Comprehensive Plan
 http://www.pipestone-county.com/residents/docs/Pipestone County Comprehensive Plan.pdf
- 3. For any parcels acquired in fee title, a restoration and management must be prepared. Summarize the components and expected outcomes of restoration and management plans for parcels acquired by your organization, how these plans are kept on file by your organization, and overall strategies for long-term plan implementation, including how long-term maintenance and management needs of the parcel will be financed into the future.

Acquired land will be restored to non-contaminating moisture retaining, drought resistant, grasslands. The planting will follow the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines. Income derived from the lands acquired with ENRTF funds is exempt from the requirements under 116.P.10 if used for additional wellhead protection, until adequate wellhead protection has been achieved as determined by the Commissioner of Health. Net income earned will become a funding resource for continued land acquisition, until complete wellhead protection has been achieved. Any income earned after complete wellhead protection has been achieved will be returned to the Environment and Natural Resources Trust Fund. Qualified Land Restoration Specialists will be contracted for implementing these restorations.

Fee Title Ownership will give Lincoln Pipestone Rural Water absolute and perpetual control over these targeted vulnerable lands, to place and keep them in conservation practices that prevent the entrance of contaminates from these lands into the Lincoln Pipestone Rural Water drinking water supply that serves more than 50,000 people living in Greater Southwest Minnesota. Acquired land, once restored, will help reduce the effects of drought as its cover retain snow and rainfall and enhances moisture retention and infiltration into the ground water supply rather than serving as row crop. Further grasslands, permanently restored, perpetually promote habitat and recreational use. If the land purchased is cropland, it will be converted to native planting. The planting will follow the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines for the planting and management of the project.

Lincoln Pipestone Rural Water will maintain hard copies of the acquisition and restoration plans at the main office, located at 415 E. Benton in Lake Benton, Minnesota. Lincoln Pipestone Rural Water will also maintain these plans electronically within their secure cloud storage database.

4. If applicable (see M.S. 116P.17), provide a statement confirming that written approval from the DNR Commissioner will be obtained 10 business days prior to any final acquisition transaction.

If applicable, at least ten (10) business days prior to final transaction of the acquisition of land, Lincoln Pipestone Rural Water shall obtain written approval from the Department of Natural Resources Commissioner.

Restoration

1. Provide a statement confirming that all restoration activities completed with these funds will occur on land permanently protected by a conservation easement or public ownership.

All restoration activities completed with these funds will occur on land permanently protected by a conservation easement.

2. Summarize the components and expected outcomes of restoration and management plans for the parcels to be restored by your organization, how these plans are kept on file by your organization, and overall strategies for long-term plan implementation.

Through its Wellhead Protection Plan, the Lincoln Pipestone Rural Water has identified 5,700 acres (see previous table) of vulnerable drinking water supply land. In order to attain maximum ecological control and assist in the furtherance of Lincoln Pipestone Rural Water's Wellhead Protection Plan, Lincoln Pipestone Rural Water plans to acquire, in Fee Title Ownership, 200 +/- acres of the vulnerable drinking water supply land. Acquisition will be through negotiated, voluntary, direct purchases.

Acquired land will be restored to non-contaminating moisture retaining, drought resistant, grasslands adhering to the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines. Qualified Land Restoration Specialists will be contracted for implementing these restorations.

Fee Title Ownership will give Lincoln Pipestone Rural Water absolute and perpetual control over these targeted vulnerable lands, to place and keep them in conservation practices that prevent the entrance of contaminates from these lands into the Lincoln Pipestone Rural Water drinking water supply.

If the land purchased is cropland, it will be converted to native planting adhering to the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines.

Acquired lands, once restored, will help reduce the effects of drought as their cover retain snow and rainfall and enhances moisture retention and infiltration into the ground water supply rather than serving as row crop. Further grasslands, permanently restored, perpetually promote habitat and recreational use.

The Soil and Water Conservation District staff will assist with any Board of Water and Soil Resources (BWSR) management requirements. Lincoln Pipestone Rural Water will follow the conservation plan provided by the Soil and Water Conservation Office and use a seed mix approved by the Minnesota Board of Water and Soil Resources (BWSR), Native Vegetative specialist, Dan Shaw.

The restorative plans are kept on file with Lincoln Pipestone Rural Water and will be maintained appropriately.

3. Describe how restoration efforts will utilize and follow the Board of Soil and Water Resources "Native Vegetation Establishment and Enhancement Guidelines" in order to ensure ecological integrity and pollinator enhancement.

If the land purchased is cropland, it will be converted to native planting adhering to the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines for the planting and management of the project.

- Lincoln Pipestone Rural Water will follow Natural Resources Conservation Service 643 practice standard "Restoration and Management of Declining Habitats".
- Native Prairie plant communities will be established utilizing seed harvested within 200 miles of the project site or utilizing seed mixes comprised of grasses and forbs adapted to Minnesota, to reflect "native prairie" communities as determined suitable for specific site conditions.
- Yellow tag "source identified" plant materials from the nearest available source to the project are preferred.
- The use of cultivars will be avoided adjacent to existing native prairie or other sensitive areas.
- Seed mixes will consist of at least 15 native species. The mixture will be comprised of a minimum of 5 grasses and 5 forbs. At least one forb shall be a legume.
- Minimum grass seeding rate will be 7.0 Pure Live Seed (PLS) lb/acre. Minimum forb seeding rate will be 16.0 Pure Live Seed (PLS) oz/acre.
- Mixture will result in a minimum 35 Pure Live Seed (PLS) seeds per square foot total. Grasses will comprise no more than 70% of the mixture based on seeds per square foot.
- Lincoln Pipestone Rural Water will also consider adding nectar and larval host milkweed plants beneficial to the Monarch butterfly and other pollinators.
- Lincoln Pipestone Rural Water will also plant pollinator forbs site specific.
- 4. Describe how the long-term maintenance and management needs of the parcel being restored with these funds will be met and financed into the future.

Long-term management of the parcels that will be restored will be maintained adhering to the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation guidelines and may include the following:

- Mowing biennial weeds to 5-8 inches during the first couple of years to provide sunlight and to decrease competition for seedlings.
- Spot herbicide treatment of perennial weeds after the second year.
- Prescribe burning to maintain diversity and control woody species after year 3.
- Conservation grazing, bioenergy harvest and biocontrol of invasive species.

All maintenance and management financial needs will be met with funding mechanisms established through Lincoln Pipestone Rural Water's Wellhead Protection Program.

5. Describe how consideration will be given to contracting with Conservation Corps of Minnesota for any restoration activities.

The Conservation Corps will be contacted for any assistance they may have to offer.

6. Provide a statement indicating that evaluations will be completed on parcels where activities were implemented both 1) initially after activity completion and 2) three years later as a follow-up. Evaluations should analyze improvements to the parcel and whether goals have been met, identify any problems with the implementation, and identify any findings that can be used to improve implementation of future restoration efforts at the site or elsewhere.

Evaluations will be completed on parcels where activities have been implemented, both initially after activity completion, and three (3) years later as a follow-up. The results of the evaluations will be reported to the LCCMR. Evaluations will document not only successes but also failures and to assess progress towards goals and objectives. These findings will help Lincoln Pipestone Rural Water's implementation and restoration efforts in the future.

Lincoln Pipestone Rural Water will rely on the Soil and Water Conservation District staff for their expertise to evaluate and follow their recommendations, both for initial and follow up years. All practices performed and costs will be kept on file for the required time.

IX. VISUAL COMPONENT or MAP(S): See attached.

X. RESEARCH ADDENDUM:

XI. REPORTING REQUIREMENTS:

Periodic work plan status update reports will be submitted no later than [June 30, 2016], [December 31, 2016], and [June 30, 2017]. A final report and associated products will be submitted between June 30 and August 15, 2019.

Status as of: December 2016

Status as of: June 2017

Status as of: December 2017

Status as of: June 2018

Project Status as of: December 2018

Final Report Summary: June 2019

Environment and Natural Resources Trust Fund M.L. 2016 Project Budget

Project Title: Lincoln Pipestone Rural Water System Land Acquisition for Wellhead Protection

Legal Citation: Fill in your project's legal citation from the appropriation language - this will occur after the 2016 legislative session.

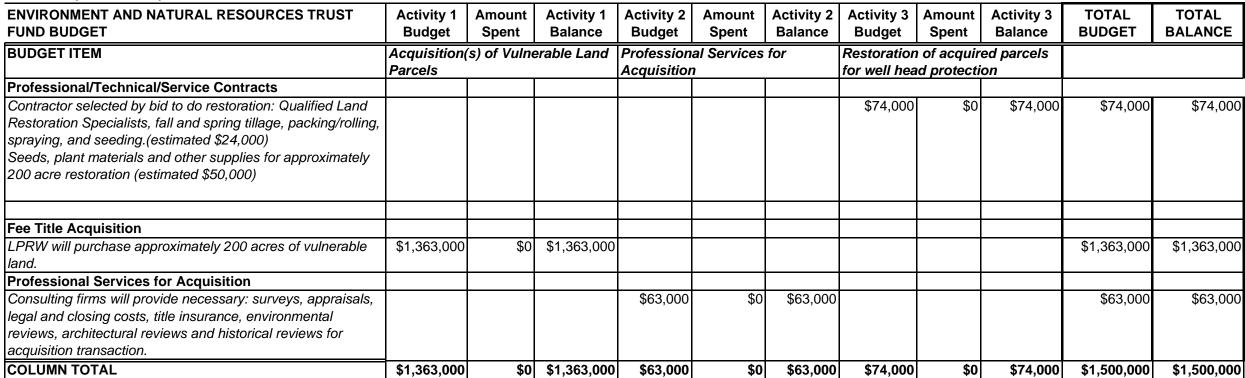
Project Manager: Jason Overby

Organization: Lincoln Pipestone Rural Water

M.L. 2016 ENRTF Appropriation: \$ 1,500,000.00

Project Length and Completion Date: 3 Years, June 30, 2019

Date of Report: February 4, 2016



TRUST FUNI



Environment and Natural Resources Trust Fund M.L. 2016 Parcel List

Project Title: Lincoln Pipestone Rural Water System Land Acquisition for Wellhead Protection

Legal Citation: Fill in your project's legal citation from the appropriation language - this will occur after the 2016 legislative session.

Project Manager: Jason Overby

Organization: Lincoln Pipestone Rural Water
M.L. 2016 ENRTF Appropriation: \$ 1,500,000.00

Project Length and Completion Date: 3 Years, June 30, 2019

Date of Report: February 4, 2016

												Proposed Fee	
	Acquisition or	Geographic Format: [De	Coordinates		Estimated					# of		Title or Easement	
	Restoration	[Sec.]"		Estimated	Annual PILT			Activity		Shoreline	Type of	Holder	
#	Parcel Name	Latitude	Longitude	Cost	Liabilities	County	Site Significance	Description	# of Acres	Miles	Landowner	(if applicable)	Status
	7 41 561 1141115	Latitude	Longitude			County	0.00 0.8	2000	01710100			LINCOLN-	SELECTED FOR
								fee title			PRIVATE	PIPESTONE	LANDOWNER
1	Oppelt/Keith&P	44.214	-96.436	\$ 665,850	NA	Lincoln	2/3 in CRP. Adjacent to other CRP	acquisition	88.78	NA	LANDOWNER	RURAL WATER	ENGAGEMENT
				,,			,				_	LINCOLN-	SELECTED FOR
								fee title			PRIVATE	PIPESTONE	LANDOWNER
2	Pritchett/C&M	44.211	-96.422	\$30,000	NA	Lincoln	Past use/Feedlot.	acquisition	9.17	NA	LANDOWNER	RURAL WATER	ENGAGEMENT
	,			, = =,000			, , , , , , , , , , , , , , , , , , , ,	1				LINCOLN-	SELECTED FOR
							1/2 of Parcel in CRP. Adjacent to Wellfield. Parcel	fee title			PRIVATE	PIPESTONE	LANDOWNER
3	Pritchett/C&M	44.208	-96.441	\$ 895,200	NA	Lincoln	contains Spring Creek	acquisition	119.36	NA	LANDOWNER	RURAL WATER	ENGAGEMENT
	·			•			·					LINCOLN-	SELECTED FOR
							Currently in Ag Production, Adjacent to North	fee title			PRIVATE	PIPESTONE	LANDOWNER
4	Elliot/Janet	44.217	-96.439	\$ 597,450	NA	Lincoln	portion of Wellfield.	acquisition	79.66	NA	LANDOWNER	RURAL WATER	ENGAGEMENT
												LINCOLN-	SELECTED FOR
							Large segement of Spring Creek within Parcel. High	fee title			PRIVATE	PIPESTONE	LANDOWNER
5	REYNOLDS/T F	44.215	-96.429	\$ 1,194,150	NA	Lincoln	wildlife value. Within 10 yr Capture Zone	acquisition	159.22	NA	LANDOWNER	RURAL WATER	ENGAGEMENT
												LINCOLN-	SELECTED FOR
								fee title			PRIVATE	PIPESTONE	LANDOWNER
6	Elliot/William R/LE	44.223	-96.439	\$ 1,306,650	NA	Lincoln	Most of Parcel lies within 10 yr Capture Zone	acquisition	174.22	NA	LANDOWNER	RURAL WATER	ENGAGEMENT
							Possibly try to split the parcel and purchase the					LINCOLN-	SELECTED FOR
							North 1/2. Spring Creek runs along the N portion of	fee title			PRIVATE	PIPESTONE	LANDOWNER
7	Halbersma/Edward M	44.208	-96.43	\$ 1,506,375	NA	Lincoln	the Parcel.	acquisition	200.85	NA	LANDOWNER	RURAL WATER	ENGAGEMENT
												LINCOLN-	
	Wiskur/ Troy R &							fee title			PRIVATE	PIPESTONE	
8	Melissa Bleeker	44.212	-96.45	\$ 100,000	NA	Lincoln	Acreage across from our highest producing wells.	acquisition	5.98	NA	LANDOWNER	RURAL WATER	
												LINCOLN-	
	Van Vugt/Sturgis &							fee title			PRIVATE	PIPESTONE	
9	Gail Trust	44.2	-96.44	\$ 1,151,925	NA	Lincoln	54% of parcel lies within 10 year Capture Zone	acquisition	153.59	NA	LANDOWNER	RURAL WATER	
												LINCOLN-	
	Osland/ Roger Carley					l	Lies on the outer boundary of the 10 year Capture	fee title	1 _		PRIVATE	PIPESTONE	
10	JT res:	44.201	-96.444	\$ 200,000	NA	Lincoln	Zone	acquisition	9.17	NA	LANDOWNER	RURAL WATER	

NOTES:

LPRWS Land Aquisition for Well Head Protection

LCCMR Grant Project - Verdi Target Area

