

LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting Wednesday, March 18, 2020

Agenda Item

Item 5. D. - 2020 Cost Share Application - Sullivan - 4419 West Old Shakopee Road

Prepared By

Linda Loomis, Administrator

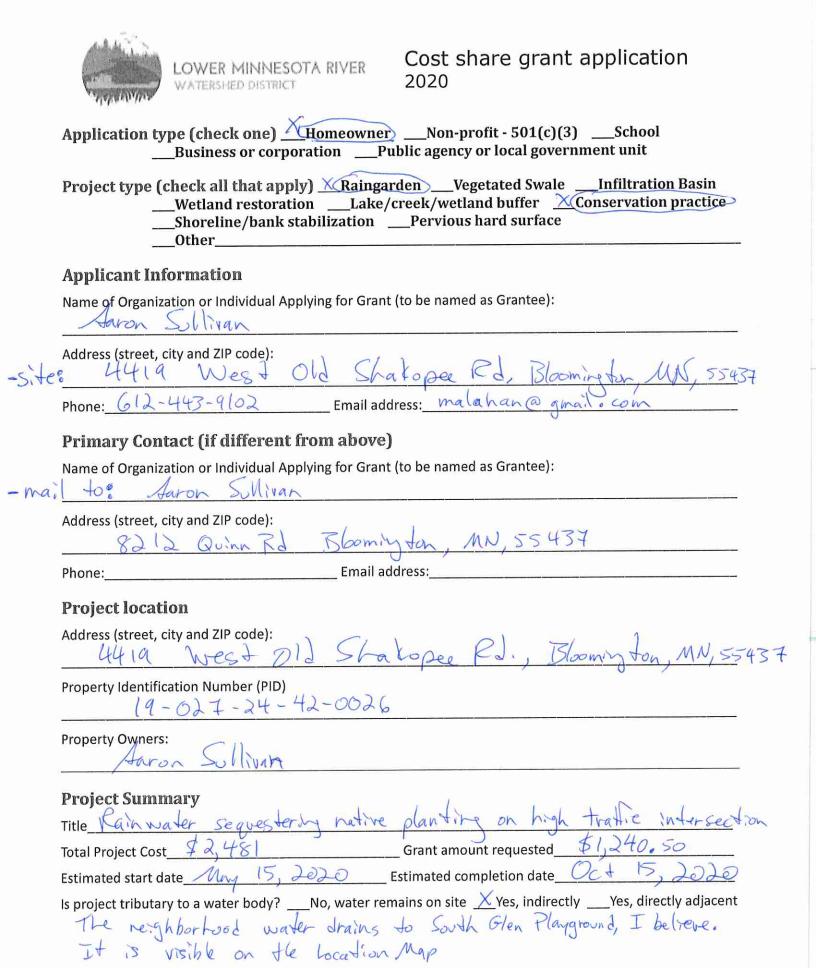
Summary

The LMRWD received an application for the 2020 Cost Share Program. The homeowner is planning to install several rain gardens and other native plant gardens on the site to reduce run off. The applicant is asking for cost share of \$1,240.50. The application is attached and staff recommends approval.

Attachments Sullivan Cost Share Application Location map

Recommended Action

Motion to approve Cost Share for 4419 West Old Shakopee Road



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Project description:

Fifteen wild Flower + two thee species, chosen for their outsized importance to wildlife, will be planted along a high-traffic street. The plantings will demonstrate a landscaping option which sequesters rainwater, hosts wildlife, is carbon-positive, and is beautiful. Is this work required as part of a permit? Yes (If yes; describe how the project provides water quality treatment beyond permit requirement on a separate page.) **Project Details Checklist** To be considered complete the following must be included with the application. project timeline Iocation map site plan & design schematic _____proof of property ownership plant list & planting plan (if project includes plants) itemized budget or contractor bid Description Describe the current site conditions, as well as site history, and past management The side contains a mixture of soils: in some areas poor, red soil, in other areas, good brown or black soil. Son exposure varies between the different garden beds planned for, from shade to rearly full sun. All of the planned beds were previously mown to 2" in height, retained very little rainwater, hosted very little wildlife and were polloted by fortilizers, What are the project objectives and expected outcomes? Give any additional project details. pesticides, terbades -Educate the public = Reproduce itself by sending seeds + and possible gas -Filter rainwater plant offsets to other places in the watershed spills. -Eliminate runoff/sequester rainwater -Eliminate runoff/sequester rainwater -Berefit weldlife -Demonstrate low-carbon /carbon-positive land scaping List other key participants and their roles (provide contact information for each partner and his/her expected contribution to the project) Craigstat is an inexpensive + reliable source for native plants + labor. Prairie Moon Nursery: stocks ca. 2,000 species of native plants, locally sourced Reed, Elizabeth: suppliers of local pratine plants. in So. M.N. Caleby Devlin: suppliers of labor. -> Phone numbers available upon request. Which cost share goals does the project support? (check all that apply) 4. V Foster water resource stewardship improve watershed resources $\sim \sim \sqrt{1}$ increase awareness of the vulnerability of watershed resources \mathcal{I}_{\bullet} V increase familiarity with and acceptance of solutions to improve waters How does the project support the goals you checked? le The native plantings will sequester + filter minwater; the larger plants can absorb large amounts of water during rainfall events. 2, 3, 4. The site is on a very busy streets on the opposite corter is a huge ornamental garden - these facts will draw the public's attention to a landscape which absorbs rainwater, benefits wild life, and yet appears civilized with its single-

species beds. Tours of the site will allow detailed elaboration on methods + benefits.

Project Details (continued)

Benefits Estimate the project benefits in terms of restoration and/or annual pollution reduction. If you are working with a designer or contractor, they can provide these numbers. If you need help contact the district P 1

of

8

Administrator.	7 Based on				
Benefit	Amount 7366/1,000 x 550 x 35=70455				
Water captures	7,045.5 gal/year 366= 50 tootage				
Water infiltrated	gal/year 31" aug annual taintail 35"				
Phosphorus removed	uncertain Ibs/year 4" rain From 52" show / annual				
Sediment removed	uncentrin Ibs/year This is the first fime				
Land restored	366 sq. ft. I've calculated water captores				
How will you share the project results with your community? I can't be certain how accurate the # iso I will host garden tours for Wild Ones and other groups					
which promote native	plandings and water-retaining landscaping.				
As flowers bloom in	bright yellow, white, purple and crimson, hope-				
As flowers bloom in bright yellow, white, purple, and crimson, hope- fully people will see the large yet orderly patches, each of just one species, and fully Pare there other projects that could be initiated as a result of this one?					
Other projects would definitely result from this consider this a					
one. Each at the wildtlowers in question reproduces landscaping opinions					
easily, as does the pagoda dogwood, and it's already a part of the					
overall plan that their offspring should establish themselves in places					
Evaluation How will the project be monitored and evaluated? which are today being mown,					
The homeowner will monitor and fertilized, pesticided, etc.					
maintain the plantings. It is anticipated that each species is being					
employed at a fitting location, but should any fail to thrive there,					
Maintenance agreement other species can replace flem in their assigned bed.					
I acknowledge that receipt of a grant is contingent upon agreeing to maintain the project for the number of years outlined in the cost share guidelines. Yes					
Authorization Name of landowner or responsible party	Aaron Sullivan				

Signature <u></u>

Type or handwrite your answers on this form. Attached additional pages as needed

(For questions, contact Linda Loomis at Naiad Consulting@gmail.com or call 763-545-4659.)

Mail the completed application to:

or Email to:

Lower Minnesota River Watershed District c/o Linda Loomis, Administrator 112 E. Fifth St., Suite 102 Chaska, MN 55318

Linda Loomis, Administrator naiadconsulting@gmail.com

Date

3-5-2020

3/10/2020

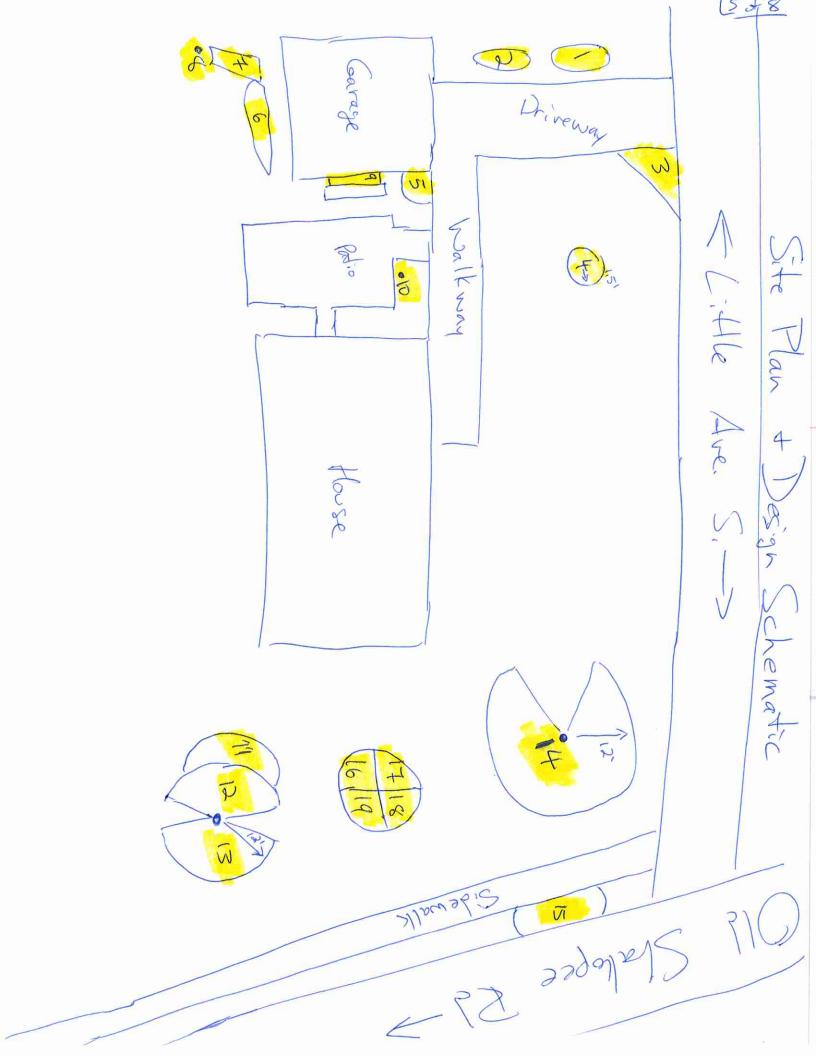
Location

Google Maps

Google Maps



4419 West Old Stakopee Rd. At the correr of West Old Stakopee Rd and Little Aven



Plant List; Planting Locations for 4419 W. Old Shakopee Rd.

Species		Quantity	Location on Site Plan
Solomon's Seal	polygonatum biflorum	15	1
False Solomon's Seal	smilacina racemosa	15	2
or Starry False Solomon's Seal	smilacina stellata		
Bee Balm	monarda didyma	30	3
Anise-Hyssop	agastache foeniculum	10	4
Bergamot	monarda fistulosa	20	5
Cow Parsnip	heracleum maximum	30	6,9
Sweet Joe Pye Weed	eupatorium purpureum	15	7
Pagoda Dogwood	cornus alternifolia	1	8
Bur Oak	quercus macrocarpa	1	10
Cup Plant	silphium perfoliatum	15	11
Fiddlehead Fern	matteuccia struthiopteris	40	12,13
Cranesbill Geranium	geranium maculatum	96	14
Bigleaf Aster	aster macrophyllum	40	15
Sweet Black Eyed Susan	rudbeckia subtomentosa	10	16
Wild Senna	senna hebecarpa	10	17
Butterfly Weed	asclepias tuberosa	10	18
Narrow Leaved Mountain Mint	pycnanthemum tenuifoliun	n 20	19

Notes on species:

Seventeen different species are to be planted, offering nectar in all seasons, as well as hosting caterpillars and providing shelter to insects.

The monarda species will draw hummingbirds to the yard, and the superlative charisma of those birds will encourage passers-by (of whom there will be many) to plant their own flowers.

Many species of butterfly are only able to reach maturity if there are specific species of plants available for them to munch on, as their larval stages are adapted to eat only that type of plant. We will host a variety of species. Host species: Cow Parsnip -- Black swallowtail butterflies require plants in the wild carrot family as hosts. Host species: Butterfly Weed -- Monarch butterflies require plants in the milkweed family as hosts.

Asters, Joe Pye weeds, cranesbill geraniums, black eyed Susans, milkweeds, and monardas are listed by Professor Douglas Tallamy as being among the most valuable forbs for butterflies. They are able to host 112, 42, 23, 17, 12, and 7 different species of lepidopterans respectively. The oak genus hosts a staggering 534 species. https://enst.umd.edu/sites/enst.umd.edu/files/_docs/Table%201%20from%20Doug%20Tallamy%20Sheet1.pdf

Because the chicks of 96% of songbird species require insects as food to fledge, and because caterpillars represent the lion's share of of the meat they consume, the fact that these 17 species of plants can host a great range of lepidopteran species (moths and butterflies) is a great boon to the songbirds, whose numbers have fallen by roughly 50% in the last 50 years. (source: Douglas Tallamy's books and videos; also Carl Zimmer's 2019 article in the NY Times). A single chickadee chick requires over 9,000 caterpillars in order to reach maturity, for example.

Some Latin species names are being changed as genetic testing reveals more accurately the relations among species within a family or genus of plants. The names used above have been in common use for decades, and may not reflect the very latest newly assigned genus and species names.

Project Timeline; Itemized Budget for 4419 W. Old Shakopee Rd.

Project Timeline

Estimated Start Date: May 15, 2020 Estimated Completion Date: October 15, 2020

-If the ground thaws earlier, work can begin earlier.

-If all work can be completed in the spring, it will be; some plantings can be conducted in fall if need be.

-Turf grass will need to be eliminated and roots removed; soil will need to be amended in certain locations so as to create a water-retaining loam; plants must be planted and mulched.

Itemized Budget	
48 hours' labor	\$576.00
378 plants from plant list:	\$1905.00
Total:	\$2481.00
Homeowner contribution:	\$1240.50
Watershed District contribution:	\$1240.50

Budget Notes

Plants and labor from Craigslist to be used in order to maximize 'the bang for the buck'. Craigslist often offers native plants with more root and at lower prices than do nurseries. See Plant list for quantity and location of specific species; \$5 per plant is budgeted. 17 species of plants are to be used.

4419 west old shakop

Move map to 4419 W Old Shakopee Rd, Minneapolis, MN 55437, USA

From Google

show all on map

4419 W Old Shakopee Rd

