




LOWER PLATTE SOUTH
natural resources district

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581
P: 402.476.2729 • F: 402.476.6454 | www.lpsnrd.org

Agenda Item #8

Memorandum

Date: January 10, 2020
To: Board of Directors
From: David Potter, Assistant General Manager 
RE: Land Resources Subcommittee Meeting Minutes.

The Land Resources Subcommittee met at 5:30 pm on Thursday, January 9, 2020 in the NRD Large Conference Room in Lincoln to discuss two agenda items and take action on one of them. Subcommittee members present included Gary Hellerich, Mike DeKalb, Vern Barrett, Karen Amen, Gary Aldridge, Bruce Johnson and Dave Landis. Members absent included Mark Spangler. Others present included David Potter, Cory Schmidt, John Albert, Donna Reid and Tracy Zayac. Hellerich called the meeting to order and gave a brief welcome.

a. The first item was consideration of the NRD/NSWCP 2020 LPS NRD Average Costs for the Surface Water Quality BMP Cost-Share Program. Our District Conservationist and NRD technician noted the practices frequently used in our District and some average costs that were not correctly listed in the 2020 NeDNR Docket. The prepared NRD/NSWCP average costs with corrections for 2020 were presented (attached). It was noted that the entire 2020 NeDNR docket is referenced on the LPSNRD Docket sheet, therefore if approved would be approved by reference. A spreadsheet was also presented which compared the new cost-share numbers with those approved December 2018 (attached). Schmidt and Albert noted that the 2020 average costs were reasonably comparable to last year's numbers. If the docket is approved by the Board, all new applications received after January 15th will be based off the 2020 docket. The proposed docket was also reviewed by both NRD and NRCS technicians.

It was moved by Landis, seconded by DeKalb, and unanimously approved by the Subcommittee to recommend the Board of Directors approve the 2020 LPSNRD Average Costs for the Surface Water Quality BMP Cost-share Program.

b. The second item was a discussion regarding a potential 319 grant and project for the Twin Lakes Watershed. The 2019 District-wide Water Quality Management Plan identified the Twin Lakes Watershed as a priority area. In addition, the District's FY20 Long Range Implementation Plan and budget has set aside \$10,000 for establishing a watershed workgroup to identify watershed needs and implement 319 funding for best management practices in a priority watershed. In fiscal years 2021-24 more dollars are proposed to implement those 319 BMPs. The District has met with Nebraska Game & Parks and with Nebraska Dept. of Environment & Energy to prepare for a 319 project and funding for the Twin Lakes Watershed. David Potter and Tracy Zayac presented some general information on the watershed and grant opportunity. A map of the watershed and a copy of a letter from Nebraska Game & Parks indicating their cooperation for such a project was provided to the subcommittee. NRD & NRCS staff will be touring the watershed to determine landowner interest/needs and then working on the details of a Section 319 application for this winter/spring.

Potter informed the subcommittee that an NRD-NRCS Technician Workshop was held the morning of January 9th and that Farm Pond Applications will be considered in February. There being no further business the meeting adjourned at approximately 6:05 pm.

2020 LPSNRD Average Costs- Surface Water Quality BMP Cost-share Program

| Practice Code | Practice Name | Scenario | Scenario Unit | Total Payment per Unit | Program |
|---------------|-------------------------------------|--|---------------|------------------------|-----------|
| 342 | Critical area planting | Vegetation-normal tillage (Organic and Non-Organic) | Acre | \$ 216.19 | NRD/NSWCP |
| 362 | Diversion | Diversion | Cubic Yard | \$ 4.24 | NRD/NSWCP |
| 378 | Pond | Embankment Pond with less than 24" pipe | Cubic Yard | \$ 6.26 | NRD/NSWCP |
| 378 | Pond | Embankment Pond with greater than or equal to 24" pipe | Cubic Yard | \$ 5.54 | NRD/NSWCP |
| 380 | Windbreak/Shelterbelt Establishment | Hand Planted, Bare Root | Each | \$ 2.02 | NRD/NSWCP |
| 380 | Windbreak/Shelterbelt Establishment | Trees, machine planted | Foot | \$ 0.28 | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Concrete Block Chute | SqFt | \$ 6.34 | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Embankment, with less than 24" pipe | Cubic Yard | \$ 6.26 | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Embankment, with greater than or equal to 24" pipe | Cubic Yard | \$ 5.54 | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Rock Chute | Cubic Yard | \$ 124.12 | NRD/NSWCP |
| 412 | Grassed Waterway | Waterway with Side Dikes or Checks | Acre | \$ 3,246.92 | NRD/NSWCP |
| 412 | Grassed Waterway | Waterway, 25 to 50 sq. ft. | Acre | \$ 2,454.48 | NRD/NSWCP |
| 484 | Mulching | Natural Material - Straw | Acre | \$ 413.89 | NRD/NSWCP |
| 512 | Forage and Biomass Planting | Introduced Perennial & Native Grass Mix | Acre | \$ 74.54 | NRD/NSWCP |
| 550 | Range Planting | Native, Standard Prep | Acre | \$ 168.47 | NRD/NSWCP |
| 550 | Range Planting | Native, Wildlife or Pollinator (F1) | Acre | \$ 367.15 | NRD/NSWCP |
| 600 | Terrace | Broadbase, Non-Storage | Foot | \$ 2.03 | NRD/NSWCP |
| 600 | Terrace | Narrow Base - Non-Storage | Foot | \$ 3.00 | NRD/NSWCP |
| 600 | Terrace | Storage - Broadbase | Foot | \$ 3.37 | NRD/NSWCP |
| 600 | Terrace | Storage - Grass Back | Foot | \$ 4.53 | NRD/NSWCP |
| 600 | Terrace | Narrow Base - Storage | Foot | \$ 3.23 | NRD/NSWCP |
| 620 | Underground Outlet | PE, PVC or Dual Wall, 6" or less | Foot | \$ 4.36 | NRD/NSWCP |
| 620 | Underground Outlet | PE, PVC or Dual Wall, 8" | Foot | \$ 5.05 | NRD/NSWCP |
| 620 | Underground Outlet | PE, PVC or Dual Wall, 10" or greater | Foot | \$ 7.76 | NRD/NSWCP |
| 638 | Water and Sediment Control Basin | WASCOB base | Cubic Yard | \$ 4.08 | NRD/NSWCP |
| 650 | Windbreak/Shelterbelt Renovation | Removal greater than 8", DBH with Dozer | Foot | \$ 2.62 | NRD/NSWCP |

Updated and Approved: _____

Costs for additional eligible practices can be found in the 2020 NeDNR /NSWCP cost list (docket).

2020 LPSNRD Average Costs- Surface Water Quality BMP Cost-share Program - COMPARISON

| Practice Code | Practice Name | Scenario | Scenario Unit | 2019 Total Payment per Unit | 2020 Total Payment per Unit | Change in Payment per Unit | Program |
|---------------|-------------------------------------|--|---------------|-----------------------------|-----------------------------|----------------------------|-----------|
| 342 | Critical area planting | Vegetation-normal tillage (Organic and Non-Organic) | Acre | \$ 223.26 | \$ 216.19 | (\$7.07) | NRD/NSWCP |
| 362 | Diversion | Diversion | Cubic Yard | \$ 3.43 | \$ 4.24 | \$ 0.81 | NRD/NSWCP |
| 378 | Pond | Embankment Pond with less than 24" pipe | Cubic Yard | \$ 6.24 | \$ 6.26 | \$ 0.02 | NRD/NSWCP |
| 378 | Pond | Embankment Pond with greater than or equal to 24" pipe | Cubic Yard | \$ 5.47 | \$ 5.54 | \$ 0.07 | NRD/NSWCP |
| 380 | Windbreak/Shelterbelt Establishment | Hand Planted, Bare Root | Each | \$ 2.04 | \$ 2.02 | \$ (0.02) | NRD/NSWCP |
| 380 | Windbreak/Shelterbelt Establishment | Trees, machine planted | Foot | \$ 0.28 | \$ 0.28 | \$ - | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Concrete Block Chute | SqFt | \$ 6.33 | \$ 6.34 | \$ 0.01 | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Embankment, with less than 24" pipe | Cubic Yard | \$ 6.24 | \$ 6.26 | \$ 0.02 | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Embankment, with greater than or equal to 24" pipe | Cubic Yard | \$ 5.47 | \$ 5.54 | \$ 0.07 | NRD/NSWCP |
| 410 | Grade Stabilization Structure | Rock Chute | Cubic Yard | \$ 78.25 | \$ 124.12 | \$ 45.87 | NRD/NSWCP |
| 412 | Grassed Waterway | Waterway with Side Dikes or Checks | Acre | \$ 3,618.84 | \$ 3,246.92 | \$ (371.92) | NRD/NSWCP |
| 412 | Grassed Waterway | Waterway, 25 to 50 sq. ft. | Acre | \$ 2,737.97 | \$ 2,454.48 | \$ (283.49) | NRD/NSWCP |
| 484 | Mulching | Natural Material - Straw | Acre | \$ 361.67 | \$ 413.89 | \$ 52.22 | NRD/NSWCP |
| 512 | Forage and Biomass Planting | Introduced Perennial & Native Grass Mix | Acre | \$ 83.30 | \$ 74.54 | \$ (8.76) | NRD/NSWCP |
| 550 | Range Planting | Native, Standard Prep | Acre | \$ 189.91 | \$ 168.47 | \$ (21.44) | NRD/NSWCP |
| 550 | Range Planting | Native, Wildlife or Pollinator (F1) | Acre | \$ 334.55 | \$ 367.15 | \$ 32.60 | NRD/NSWCP |
| 600 | Terrace | Broadbase, Non-Storage | Foot | \$ 1.81 | \$ 2.03 | \$ 0.22 | NRD/NSWCP |
| 600 | Terrace | Narrow Base - Non-Storage | Foot | \$ 3.15 | \$ 3.00 | \$ (0.15) | NRD/NSWCP |
| 600 | Terrace | Storage - Broadbase | Foot | \$ 3.37 | \$ 3.37 | \$ - | NRD/NSWCP |
| 600 | Terrace | Storage - Grass Back | Foot | \$ 4.69 | \$ 4.53 | \$ (0.16) | NRD/NSWCP |
| 600 | Terrace | Narrow Base - Storage | Foot | \$ 3.39 | \$ 3.23 | \$ (0.16) | NRD/NSWCP |
| 620 | Underground Outlet | PE, PVC or Dual Wall, 6" or less | Foot | \$ 4.45 | \$ 4.36 | \$ (0.09) | NRD/NSWCP |
| 620 | Underground Outlet | PE, PVC or Dual Wall, 8" | Foot | \$ 5.10 | \$ 5.05 | \$ (0.05) | NRD/NSWCP |
| 620 | Underground Outlet | PE, PVC or Dual Wall, 10" or greater | Foot | \$ 8.28 | \$ 7.76 | \$ (0.52) | NRD/NSWCP |
| 638 | Water and Sediment Control Basin | WASCOB base | Cubic Yard | \$ 4.25 | \$ 4.08 | \$ (0.17) | NRD/NSWCP |
| 650 | Windbreak/Shelterbelt Renovation | Removal greater than 8", DBH with Dozer | Foot | \$ 2.75 | \$ 2.62 | \$ (0.13) | NRD/NSWCP |
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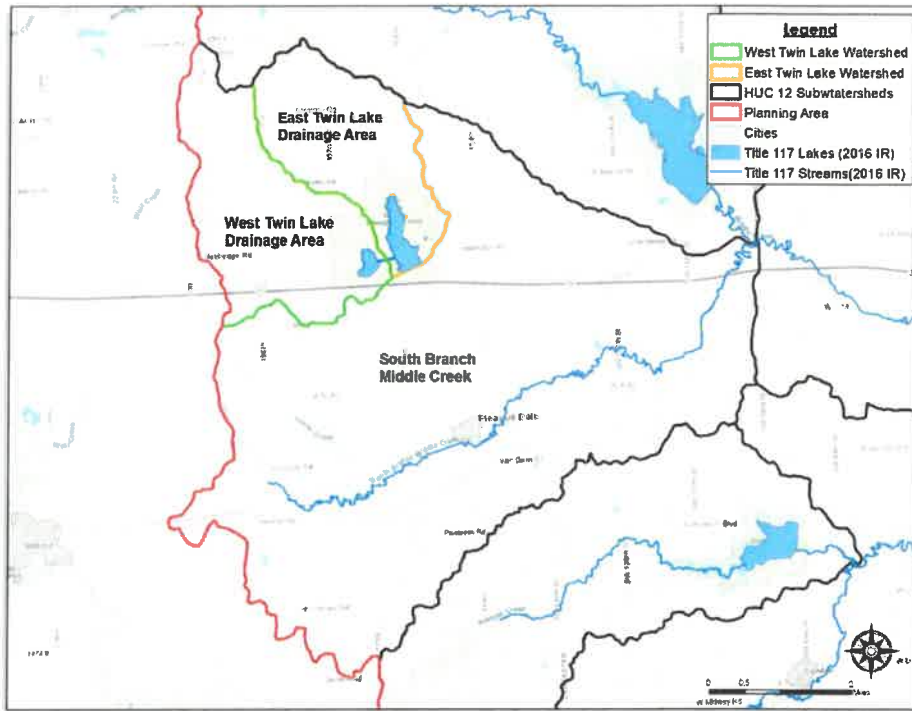


Figure 78: Location of Twin Lakes

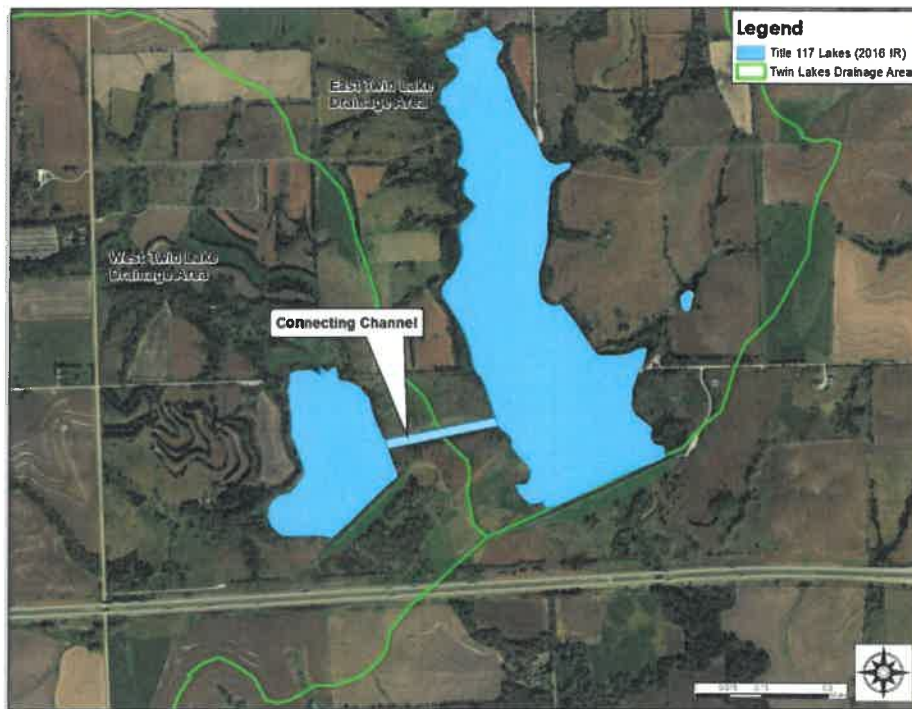


Figure 79: Channel Connecting West Twin and East Twin Lakes



2200 N. 33rd St. • P.O. Box 30370 • Lincoln, NE 68503-0370 • Phone: 402-471-0641

January 3, 2020

Paul Zillig
General Manager
Lower Platte South NRD
3125 Portia Street
Lincoln, Nebraska 68521

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RE: Initiating the rehabilitation of East & West Twin reservoirs

Dear Paul,

The long-standing and continuing partnership of LPSNRD and NGPC's Aquatic Habitat Program has yielded many successes. The rehabilitation of several Salt Valley Reservoirs including; Holmes Lake, Olive Creek, Wagon Train, Wildwood, Yankee Hill and most recently Conestoga, exemplify these collaborations that have benefited many Nebraskans. Improvements to water quality and flood-control infrastructure provide both recreational opportunities and millions in economic benefits, as well as important ecosystem services. LPSNRD has led efforts to bring local awareness and install watershed wide BMPs that provide good soils management and improve private landowners' quality of life. We can be truly proud of these accomplishments, and greatly appreciate our partnership.

The purpose of this letter is to make you aware of, and ask for your assistance once again as we begin the planning stages of another reservoir rehabilitation. East & West Twin reservoirs in eastern Seward County are currently listed as impaired under Title 117 by NDEE. Sedimentation and excess nutrients have impacted the physical aquatic habitats as well as the recreational value to the public. The Nebraska Game and Parks Commission is planning to lead this reservoir renovation, and we anticipate the cost to be in excess of \$7.5 M. Any supporting efforts by LPSNRD in the East and West Twin watersheds to reduce erosion and install beneficial BMPs would be greatly appreciated.

I look forward to working with you once again in conserving, protecting and enhancing Nebraska's natural resources.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Porath", is written over a light blue circular stamp.

Mark Porath
Aquatic Habitat Program Manager
Nebraska Game and Parks Commission
402-471-5583
mark.porath@nebraska.gov

EC: Jeff Jackson, NGPC SE District Fisheries Supervisor
Tony Barada, NGPC Asst. Fisheries Division Administrator
Mike Archer, NDEE State Lakes Coordinator

TIME OUTDOORS IS TIME WELL SPENT