

Projects Committee Meeting
Thursday, March 3, 2022 7:30 AM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS
No unfinished business to address.
2. SWCP

2.A. SWCP Application Approvals

2.B. SWCP Payments

2.C. 2 1-B-5	2.D. SEC. 36-16-4 (SKULL) *	2.E. CARL SOUSE K	2.F. \$ 12,50 0.00	2.G. WAS CB TO
2.H. 2 1-B-4	2.I. SEC. 36- 16-4 (SKULL) *	2.J. DAVID HANIS	2.K. \$ 2,909.94	2.L. WASC B TO

2.M. SWCP Cancellations

2.N. Wahoo Creek Cost Share Approvals

2.O. 2022 Lands for Conservation

NRCS submitted the proposed 2022 Lands for Conservation (LFC) for the LPNNRD to approve. There are no requested changes to the existing LFC policy. The 2022 per acre payment rate is \$192.00/acre. The rate is based on the average non-irrigated cropland cash rent submitted by USDA National Agricultural Statistics Service

3. WATERSHEDS

3.A. Shell Creek

3.A.1. Shell Creek Environmental Enhancement Plan Implementation

Attached is JEO's final \$1,142 invoice for work completed on our Shell Creek Watershed Water Quality Plan update. The total amount under contract that will be paid is \$31,630. This amount will be submitted to NDEE for grant reimbursement.

3.A.1.a. Shell Creek Grant Funding Update

No new information from last month.

3.A.2. Shell Creek Environmental Enhancement Plan Practice Payment

3.A.3. RIV
ER ROAD
INC

3.A.4. \$
\$10,470.24

3.A.5. SOLAR
PUMP/WELL

3.A.6. Shell Creek Watershed Research Group Request

The Shell Creek Research Group (led by the Newman Grove Science Club) has made their annual request for water testing supplies and equipment for 2022. Attached is a summary of their request. The final equipment expense will be submitted to NDEE for grant assistance.

3.B. Wahoo Creek Watershed

3.B.1. Wahoo Creek Dams - Landowner/Tenant Discussion @ 8:00 a.m.

An ongoing topic over the years has been the design of the Wahoo Creek Watershed dams. Traditionally, flood reduction dams are designed to store permanent water up to the principal spillway inlets. While dry dams were evaluated as a possible option, the preferred economic alternative selected for the Wahoo Creek Watershed Plan were dams with permanent pools (wet dams). The plan has gone through NRCS final review and is expected to get final signatures this month. Several landowners/tenants involved with Dam site 77 attended the Projects Committee meeting to discuss this topic and give input. There were also landowners present who farm downstream from the dams. Andrew Phillips, Olsson, Janel Kaufman FYRA, Allen Gerhing & Rich Vaughn (NRCS) gave input on structure design and the NRCS plan review process. Allen and Rich explained that to change from the preferred alternative at this point, would require reworking the plan and go through the NRCS review process again with agencies, SHIPO and Indian tribes which would take at least another year, with no guarantee that the restructured plan would receive approval. We are also dealing with funding partner deadlines, which another delay would be problematic. While landowner interest was expressed that site 77 be designed as a dry dam, this is not unanimous with all landowners involved with this site.

3.B.2. Wahoo Creek Watershed Plan Update/ Andrew Philips, Olsson, NRCS Plan Review Team, Janel Kaufman, FYRA

Andrew Phillips, Olsson, to give a project progress report on Wahoo Creek geotech soil borings and other related work. Most of the geotech activities are complete and they are ready to move into full design on all ten dams. Attached is their February 16, 2022, \$89,978.40 invoice for contract work accomplished. After this payment, \$1,558,109.21 will remain under our \$1,999,978 contract.

The Wahoo Creek Watershed Plan has gone through the public review process and is now going through NRCS final review and eventual approval. As previously reported, we have been approved for receiving \$22 million from LB 406 funding that will accelerate building the ten planned structures. We are ready to hold a public information meeting on our plans to move forward with

completing ten floodwater reduction dams by the end of 2026, as outlined in the Wahoo Creeek Watershed Plan. We are suggesting that this public meeting be held in late March.

With the Wahoo Creek Watershed Plan being through public review, NRCS has given us permission to move forward with completing designs and permitting for all ten Wahoo Creek Dam sites (26a, 26b, 27, 55, 66, 77, 82, 84, 85 and 86) as outlined in the Wahoo Creek Watershed Plan. Attached are minutes of our February 17th meeting with NRCS. NRCS representatives Allen Gerhing and Rich Vaughn and Janel Kaufman, FYRA, joined the Projects Committee meeting (Zoom) for discussion. As advertised by Public Notice, NRCS has placed the final draft of the Wahoo Creek Watershed Plan for review on the following website:

<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ne/technical/engineering/?cid=nrcseprd1492259>

As reported at the last meeting and the Director's Retreat, Andrew Phillips is working on a proposed contract revision to reflect project delays/changes and to move forward with an accelerated schedule to complete all ten dams by the end of 2026.

3.B.3. Wahoo Creek Dam Site Planning Update & FYRA Invoices

As mentioned, the Wahoo Creek Watershed Plan is though the public review and is presently going though NRCS final review.

3.B.4. Wahoo Creek Watershed Water Quality Plan Phase II

Attached is JEO's \$1,142 invoice for work completed on our Wahoo Creek Watershed Water Quality Plan update. After this payment, \$243 will remain under our \$31,630 contract. This amount will be submitted to NDEE for grant reimbursement.

3.B.5. Wahoo Creek Septic System Upgrade payment

3.B.6. KENNE
TH SOUSEK

3.B.7. \$5,499.
00

4. JOINT WATER MANAGEMENT ADVISORY BOARD

4.A. Platte River Cameras/Gauges - New USGS Agreements

As has been reported, USGS has placed four Platte River cameras that are functioning on HWs 64, 77, 79 and 15. There are also two additional gauges placed on HW 77 and 15 bridges as well. USGS has been worked with the Loup Power Canal to place a final camera on their property. The USGS link for viewing the cameras/gauges is <https://apps.usgs.gov/hivis/>.

At discussed last month, we have been working with Dodge County to find a way that FEMA can apply their grant funding for this project. A partner Zoom meeting with FEMA was held on February 7, where they indicated to receive their assistance, we need to replace our existing agreement with USGS with two separate agreements. The two agreements are for the same total amounts in the previous

agreement, but separate the equipment from the three-year operation and maintenance costs. We anticipate FEMA will now reimburse the partners 75% (\$29,160) of the \$38,880 equipment cost. Attached is our original USGS agreement and the two new replacements,

4.B. Rawhide Creek Work Plan-Environmental Assessment Update

The monthly Rawhide Creek WFPO meeting was held with JEO on February 28 at the Dodge County Emergency Management Office, Fremont (agenda attached). JEO is working on hydrology/hydrolics modeling and economic analysis for the Rawhide Creek Watershed which is also impacted by Shell Creek and Platte River flows. The next step will be holding a public meeting tentatively scheduled 6-8 p.m., April 14 in North Bend. Identified flood reduction alternatives will be discussed with additional public meetings held throughout the spring and summer.

5. EROSION AND SEDIMENT RULES AND REGULATIONS

No new information was reported.

6. OTHER

7. ADJOURNMENT

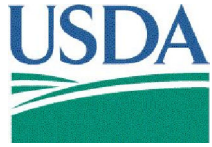
The Projects Committee adjourned at 9:41 a.m.

2022 Lower Platte North NRD Lands for Conservation Program (LFC) for summer construction

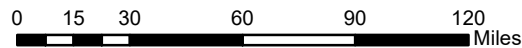
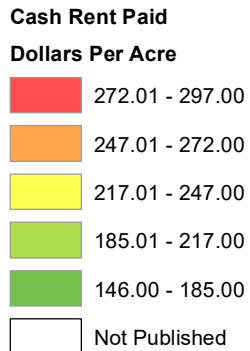
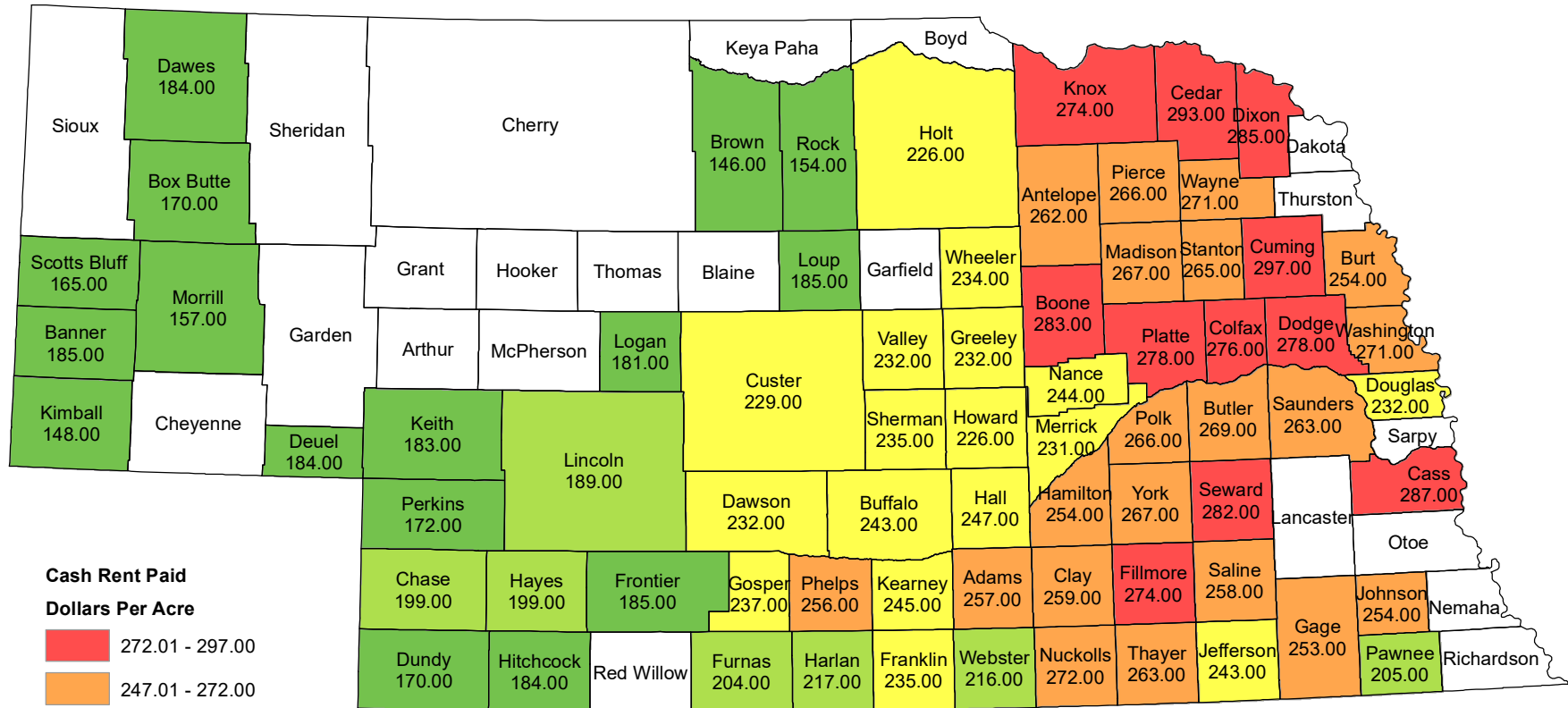
Purpose: The Lands for Conservation program (LFC) provides landowners with an incentive to get conservation structures constructed on the land during the growing season.

1. The Lands for Conservation program will be on contractual basis between the landowner (cooperator) and the Lower Platte North Natural Resources District (LPNNRD) for one year while conservation practices are being established. Application deadline for each calendar year will be March 1.
2. Sediment and Water Control Basins with tile outlets and/or terraces with grassed waterways and terraces with tile outlets qualify for this program. Sediment and Water Control Basins/Terraces and/or waterways must be seeded during the contract period.
3. NRCS and/or NRD personnel will design terraces with waterways or tile drains or Sediment and Water Control Basins with tile outlets. These practices must protect the entire field on which they are established. However, the area under contract will be the smallest practical area to encompass the practice, as agreed upon with the cooperator.
4. Land enrolled in another program (ex: CRP) may not be eligible for Lands for Conservation contracts.
5. Sediment and Water Control Basins with tile outlets and terraces with waterways or tile outlets may be cost-shared through the EQIP program administered by Natural Resources Conservation Service (NRCS). If federal funds are not available, cost-sharing assistance may be available through the Soil & Water Conservation Cost-Share Program.
6. Construction must be done between June 1 and September 15. The field must be available for construction by August 1. The area enrolled in the LPNNRD Lands for Conservation will be planted to cover crop or a non-grain forage crop (forage sorghum, etc.) preceding or after construction. The crop or cover may be harvested or pastured during the contract period.
7. **For 2022: Payment is \$192 per acre*. Payment will not be processed and forward to the NRD applicant until the project (including the planting of the cover crop) has been certified as completed by the NRCS.**
8. If used for permanent pasture before or after the contract period, these areas are not eligible for the Lands for Conservation Program. Money received through this program resulting in permanent pasture after the contract period, must be returned. Land can be used for hayland as a normal part of the crop rotation.
9. If ownership of land changes during the contract period, the contract becomes void. The new owner may continue the contract, if agreed to with the Lower Platte North NRD.
10. Approval of contracts will be on a rotating basis.
11. The landowner will contract for the construction of Sediment and Water Control Basins, terraces, waterways, tile outlets and any other necessary construction.
12. Terraces, Sediment and Water Control Basins, waterways and tile outlets must be maintained for 10 years or as long as the current owner has control of the land, whichever is less.

* Based on the 2021 Non-Irrigated Cropland Cash Rent Paid Per Acre Nebraska from the USDA National Agricultural Statistics Service



2021 Irrigated Cropland Cash Rent Paid Per Acre Nebraska

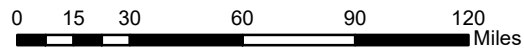
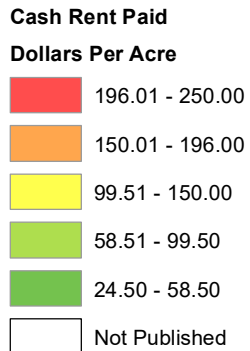
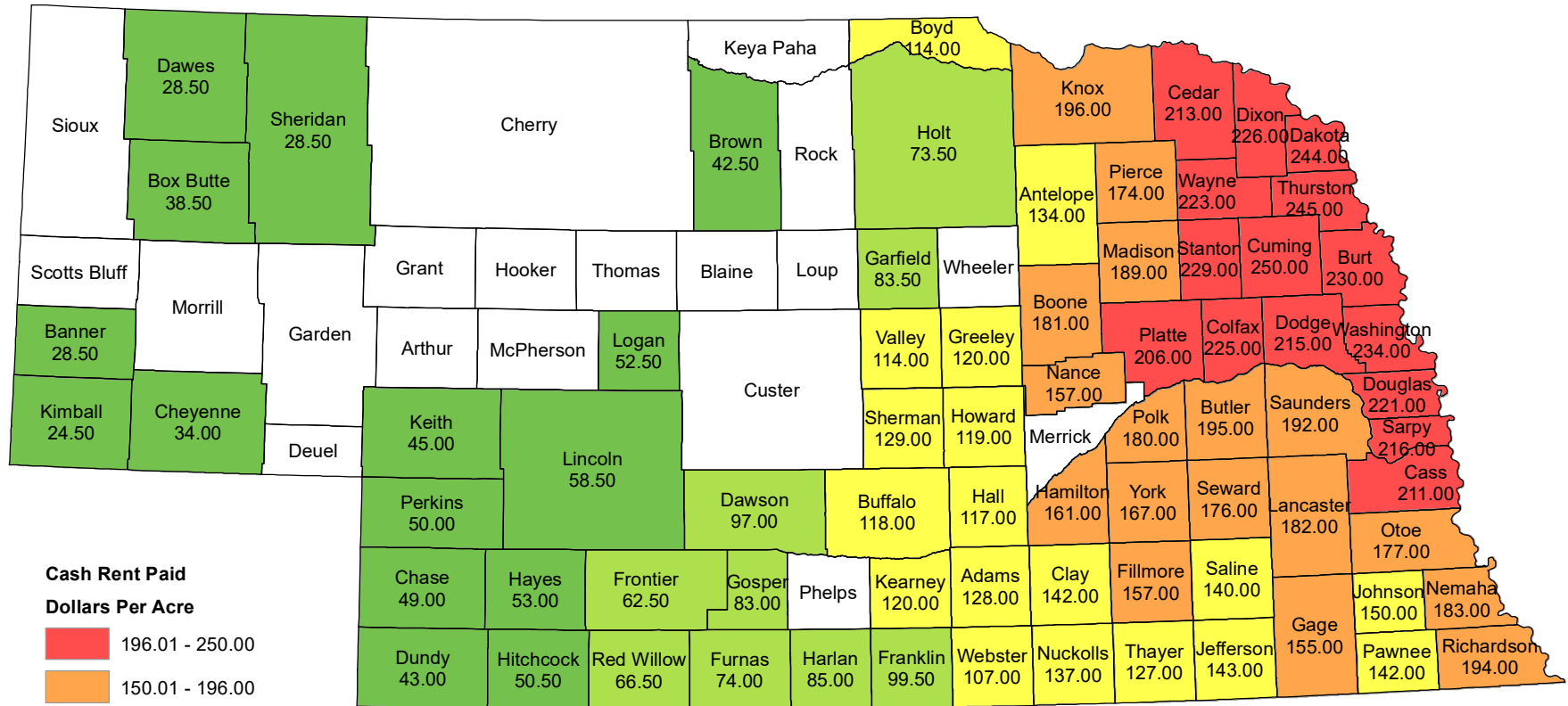


Source: USDA National Agricultural Statistics Service
August 27, 2021





2021 Non-Irrigated Cropland Cash Rent Paid Per Acre Nebraska

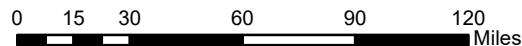
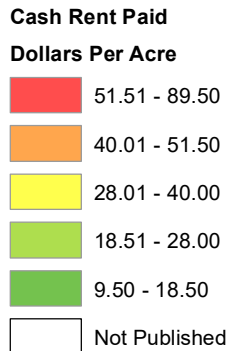
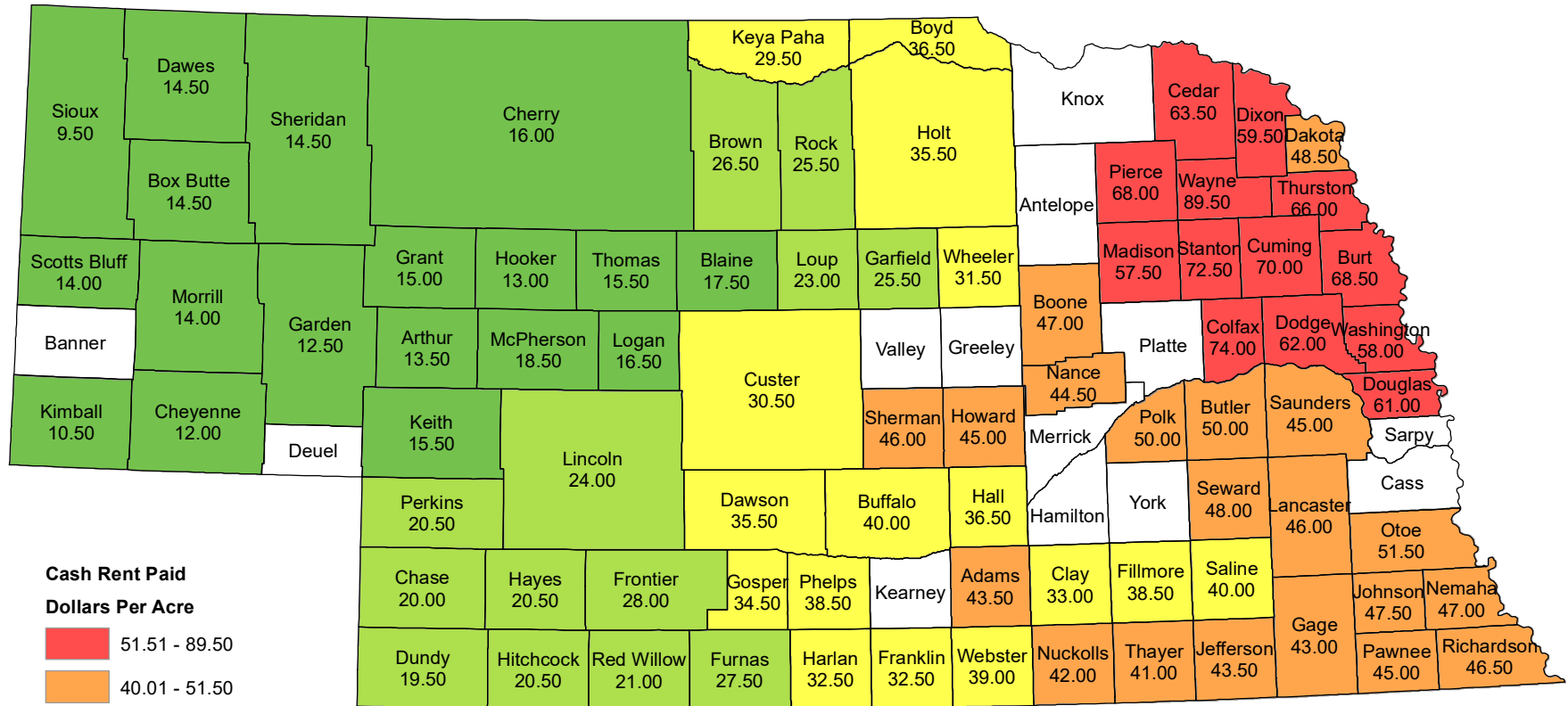


Source: USDA National Agricultural Statistics Service
August 27, 2021





2021 Pasture Cash Rent Paid Per Acre Nebraska



Source: USDA National Agricultural Statistics Service
August 27, 2021





Invoice

March 2, 2022
Project No: R210166.00
Invoice No: 131261
Invoice Amount: 1,142.00

Lower Platte North NRD
511 Commercial Park Road
PO Box 126
Wahoo, NE 68066

Project Manager Adam Rupe

Project R210166.00 Lower Platte North NRD: Shell Creek Watershed Plan Update

Professional Services through February 25, 2022

- Progress Report attached

	Contract Amount	Percent Complete	Billed-to-Date	Previous Billing	Current Billing
Lump Sum Phase(s)					
Task 1: Evaluate Water Quality Data	\$4,540.00	100 %	\$4,540.00	\$4,540.00	0.00
Task 2: Quantify Pollutant Loads	\$13,240.00	100 %	\$13,240.00	\$13,240.00	0.00
Task 3: Quantify Pollutant Reductions	\$11,420.00	100 %	\$11,420.00	\$10,278.00	\$1,142.00
Task 4: Project Management	\$2,430.00	100 %	\$2,430.00	\$2,430.00	0.00
Total	\$31,630.00		\$31,630.00	\$30,488.00	\$1,142.00
Total Amount Due Upon Receipt :					\$1,142.00

Email invoice to : tmountford@lpnrd.org and jbreunig@lpnrd.org



**Monthly Progress Report
Shell Creek Watershed WQMP Update
Lower Platte North NRD**

JEO Project #: 210166.00
Through: February 28, 2022



- 1. Work completed during current period**
 - Ongoing coordination with LPNNRD and NDEE.
 - Internal project management.
 - Final draft of report was provided for review to NDEE/LPNNRD on January 10, 2022.

- 2. Planned project activities for next period**
 - Complete final edits following LPNNRD and NDEE review
 - Provide final deliverables.
 - Project closeout.

- 3. Information needed from project partners**
 - Review and comments of final draft report needed from NDEE

- 4. Next Meeting Date and Time**
 - None at this time

- 5. Other Notes, Risks, Issues, or Concerns**
 - None at this time.

Please contact Adam Rupe at 402.322.0377 or at arupe@jeo.com for any questions or concerns regarding this progress report

Howard H. Erickson
2121 Meadowlark Road, Apt 129
Manhattan, Kansas

January 17, 2022

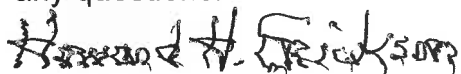
Eric Gottschalk
Lower Platte North NRD
511 Commercial Park Rd
Wahoo, NE 68066

Dear Mr. Gottschalk,

Doug Hansen, Farmers National Company, contacted me recently about the proposed dams on the Wahoo Creek Watershed. I am the farm manager for the land on Mud Creek where one of these dams will be built. My understanding is that this dam might consume much of our farm or make much of it very difficult to farm, especially if it is a wet dam or a dam for recreation purposes. We would strongly prefer that if this dam is built, that it is Dry Dam to preserve as much farm land as possible. This farm has been in our family for nearly 150 years; it has an old barn that needs work on the SE Quarter that is over 100 years old, could be historic.

The farm is located four miles south and about three miles west of Wahoo. I think the proposed dam will be on the SE 30-14-7, but will impact NW 31-14-7 and NE 16-14-6. The farm is in the C & L Erickson Farms LLC. Farmers National Company manages the farm; Doug Hansen is the Farm Manager with FNC.

Thank you for your consideration. My telephone number is 785-776-3416 if you have any questions.



Howard H. Erickson
Farm Manager

Invoice



601 P St Suite 200
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5063

February 16, 2022
Invoice No: 411745

Tom Mountford
Assistant Manager
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066-0126

Invoice Total \$89,978.40

Olsson Project # A18-34230 Lower Platte North NRD Wahoo Creek Watershed & 7 Dam Sites
Phase II

Professional services rendered January 2, 2022 through February 5, 2022 for work completed in accordance with agreement.

Phase 100 Sites 55 66 77 82 83 84 85 86 Project Management

Labor

	Hours	Amount	
Principal	9.50	2,231.84	
Totals	9.50	2,231.84	
Total Labor			2,231.84

Billing Limits

	Current	Prior	To-Date
Total Billings	2,231.84	2,479.84	4,711.68
Limit			62,400.00
Balance Remaining			57,688.32
		Total this Phase	\$2,231.84

Phase 110 Geotechnical Engineering

Labor

	Hours	Amount	
Assistant Engineer	22.75	2,058.19	
Technician	9.25	546.84	
Senior Driller	252.75	18,519.43	
Associate Driller	342.00	19,843.17	
Assistant Driller	202.00	10,616.37	
Project Professional	29.00	3,684.08	
Totals	857.75	55,268.08	
Total Labor			55,268.08

Unit Billing

Drill Rig Truck Mileage	56.0 Miles @ 2.25	126.00
Drill Rig Truck Mileage	129.0 Miles @ 1.25	161.25
Field Vehicle 1193	1,916.0 Miles @ 0.75	1,437.00
Field Vehicle 1147	256.0 Miles @ 0.75	192.00

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Explor Drill Flight Augers 26-50	490.0 Feet @ 4.80	2,352.00	
Explor Drill HSA 26-50	750.0 Feet @ 6.05	4,537.50	
Shelby Tube Sampling 26-50	59.0 Samples @ 6.56	387.04	
Standard Penetration Test 51-75	28.0 Tests @ 4.91	137.48	
Field Vehicle 1386	985.0 Miles @ 0.75	738.75	
Field Vehicle 1429	42.0 Miles @ 0.80	33.60	
Field Vehicle 1429	92.0 Miles @ 0.75	69.00	
Explor Drill HSA 0-25	795.0 Feet @ 5.35	4,253.25	
Explor Drill HSA 76-100	15.0 Feet @ 5.85	87.75	
Shelby Tube Sampling 0-25	200.0 Samples @ 9.64	1,928.00	
Standard Penetration Test 76-100	3.0 Tests @ 8.25	24.75	
Standard Penetration Test 0-25	186.0 Tests @ 5.00	930.00	
Explor Drill Flight Augers 0-25	1,065.0 Feet @ 5.35	5,697.75	
Explor Drill HSA 51-75	140.0 Feet @ 4.70	658.00	
Standard Penetration Test 26-50	190.0 Tests @ 5.20	988.00	
Total Units		24,739.12	24,739.12

Billing Limits	Current	Prior	To-Date
Total Billings	80,007.20	63,481.96	143,489.16
Limit			607,460.00
Balance Remaining			463,970.84
		Total this Phase	\$80,007.20

Phase 120 Dam Design

Labor	Hours	Amount	
Assistant Professional	57.50	5,775.40	
Totals	57.50	5,775.40	
Total Labor			5,775.40

Billing Limits	Current	Prior	To-Date
Total Billings	5,775.40	7,546.38	13,321.78
Limit			436,278.00
Balance Remaining			422,956.22
		Total this Phase	\$5,775.40

Phase 130 Permitting

Labor	Hours	Amount	
Assistant Professional	1.25	120.07	
Totals	1.25	120.07	
Total Labor			120.07

Billing Limits	Current	Prior	To-Date
Total Billings	120.07	1,759.46	1,879.53
Limit			251,140.00
Balance Remaining			249,260.47

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Total this Phase \$120.07

Phase 140 Survey & Legal Descriptions

Labor

	Hours	Amount
Principal	10.75	1,843.89
Totals	10.75	1,843.89
Total Labor		1,843.89

Billing Limits

	Current	Prior	To-Date
Total Billings	1,843.89	0.00	1,843.89
Limit			28,875.00
Balance Remaining			27,031.11
		Total this Phase	\$1,843.89

AMOUNT DUE THIS INVOICE \$89,978.40

Outstanding Invoices

Number	Date	Balance
409588	1/13/2022	63,244.43
Total		63,244.43

Email invoice to tmountford@lpnrd.org

Authorized By: Andrew Phillips

Progress Report for Wahoo Creek Watershed Dams Sites



Lower Platte North NRD

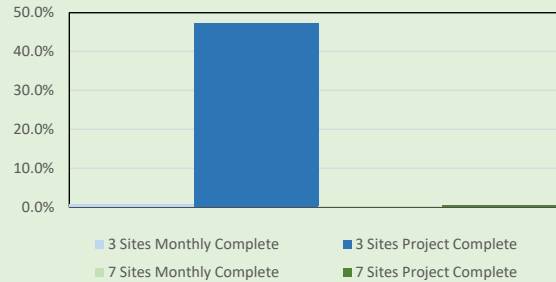
For Work Completed During The Month Of : **January, 2022**
(through 2/5/22)

Project # 018-3423 Dam Site 26A, 26B, &27 Project Phase	Phase Budget	Billings for Month		Project Total Billings to Date	
		Current Earned/Billings	% Completed This Month	JTD Earned/Billings	% Completed Overall
010 - Project Management/Meetings	\$ 21,840		0.0%	\$ 6,654.79	30.5%
020 - Geotechnical Engineering	\$ 222,485		0.0%	\$ 204,239.50	91.8%
030 - Dam Design	\$ 173,160		0.0%	\$ 44,845.67	25.9%
040 - Permitting	\$ 79,960		0.0%	\$ 9,093.44	11.4%
050 - Survey and Legal Descriptions	\$ 10,780		0.0%	\$ 11,360.33	105.4%
060 - Community/Public Participation	\$ -			\$ -	
070 - Construction Services	\$ 75,600			\$ -	
				\$ -	
3 Sites Totals	\$ 583,825	\$ -	0.0%	\$ 276,193.73	47.3%

Project # A18-3423 (separate invoice) Sites 55, 66, 77, 82, 84, 85, &86 Project Phase	Phase Totals	Billings for Month		Project Total Billings to Date	
		Current Earned/Billings	% Completed This Month	JTD Earned/Billings	% Completed Overall
100 - Project Management/Meetings	\$ 62,400	\$ 2,231.84	3.6%	\$ 4,711.68	7.6%
110 - Geotechnical Engineering	\$ 607,460	\$ 80,007.20	13.2%	\$ 143,489.16	23.6%
120 - Dam Design	\$ 436,278	\$ 5,775.40	1.3%	\$ 13,321.78	3.1%
130 - Permitting	\$ 251,140	\$ 120.07	0.0%	\$ 1,879.53	0.7%
140 - Survey and Legal Descriptions	\$ 28,875	\$ 1,843.89	6.4%	\$ 1,843.89	6.4%
150 - Community/Public Participation	\$ 30,000		0.0%	\$ 429.02	1.4%
160 - Other	\$ -			\$ -	
7 Sites Totals	\$ 1,416,153	\$ 89,978.40	6.4%	\$ 165,675.06	11.7%

Billings For Month	\$ 89,978.40
Total Billings To Date	\$ 441,868.79
Project Budget	\$ 1,999,978
Budget Remaining	\$ 1,558,109.21

% Budget Spent Per Site



Summary Of Work Completed This Month	
Sites 26A, 26B, & 27	Sites 55,66,77,82,84,85, & 86
-No work completed this month	-Field operations including soil test borings and surveying. - Review of field data and call out of laboratory testing. - Review of dam alignments and spillway locations from Watershed plan.

Planned Work For Next Month	
Site 26A, 26B, & 27	Sites 55, 66, 77, 82, 84, 85, & 86
-Design has been approved for these structures. Will begin design s in March.	-Field operations including surveying. -Laboratory testing on soils samples collected during drilling -Continue wokring with USACE to get initial meeting

For questions regarding billings, please contact Andrew Phillips at (402) 440-8807 or aphillips@olsson.com

Sites 26a, 26b & 27

Introductions: NRCS

Allen Gehring, Randy Moses, Bob Sullivan, Jason Sall, Ted Huscher, Nicole Smith, Parker Belgum

NRD

Tom Mountford, Sean Elliot

Olsson Associates

Andrew Phillips, Dan Lightbody

Project Overview/Schedule

Olsson Associates has been authorized by the NRD Board to begin work on the three sites 26a, 26b & 27.

Tom will work with the Board to authorize the remaining sites. Site 77 is the only Significant Hazard Potential and will be the next priority.

Drilling and Testing are complete, and the Report is at approximately 90% for these three sites.

Drilling Operations on the other seven dams will be done in the next week.

Draft Plan is Available

Andrew and Dan have a copy of the draft plan.

The three sites have been identified as Low Hazard Potential with a 24" RCPP principal spillway.

The effective heights have not been determined so the NRCS Job Classification has not been identified at this point.

Final Design needs to generally conform with the Watershed Plan.

The permit approval process should be completed faster since the Army Corp of Engineers is Cooperating Agency. No definitive timeline can be given at this point.

Design Reviews: 50%

Final

Nebraska Department of Natural Resources

If the sites are NRCS Job Classification V or VI, the reviews will be done on the NRCS State level. NRCS will complete the reviews within 30 working days.

Class VII will need to be reviewed by the Design Center in Fort Worth, which in the past are approximately 60 days turnaround. If it looks like we need this review I will coordinate to determine a schedule for these reviews.

On the last project submitted to DNR, Tim Gokie indicated a 90-day review period.

Required Products for Review: Design Report
H&H
Soil Mechanics Report (Geotechnical Report)
Plans
Specifications
Engineer's Opinion of Probable Cost

I will provide checklists to Andrew and Dan regarding the required documents for review and the NRCS Job Classification document.

Once the effective height is known we'll discuss the final review level and required documents.

Once the Geotechnical Report is completed Olsson can submit for review and not wait until 50% design.

The Specifications don't need to be NRCS Standard. Andrew indicated they would use their own. Dan asked if we do need a Fort Worth review would they require Standard NRCS specifications. I will check with the Design Center and respond accordingly. Jason agreed since Olsson will be providing construction services/inspection it will be good to use a format the inspectors are comfortable with.

Dan indicated they had all the required NRCS resources to complete the design but would reach out if he needs anything.

Discussion:

Olsson currently utilizes Bluebeam for in house reviews. NRCS will research and determine if we can utilize on these sites.

I'll be the main point of contact for NRCS and will distribute appropriately.

Ted would like to be onsite when Olsson is drilling (one of the other seven sites) and will coordinate with Andrew.



Invoice

March 2, 2022
Project No: R170124.00
Invoice No: 131260
Invoice Amount: 1,142.00

Lower Platte North NRD
511 Commercial Park Road
PO Box 126
Wahoo, NE 68066

Project Manager Adam Rupe

Project R170124.00 Lower Platte North NRD Wahoo Creek WQMP Update

Professional Services through February 25, 2022

- Progress Report attached

	Contract Amount	Percent Complete	Billed-to-Date	Previous Billing	Current Billing
	0.00		0.00	0.00	0.00
Lump Sum Phase(s)					
Task 1: Evaluate Water Quality Data	\$4,540.00	100 %	\$4,540.00	\$4,540.00	0.00
Task 2: Quantify Pollutant Loads	\$13,240.00	100 %	\$13,240.00	\$13,240.00	0.00
Task 3: Quantify Pollutant Reductions	\$11,420.00	100 %	\$11,420.00	\$10,278.00	\$1,142.00
Task 4: Project Management	\$2,430.00	90 %	\$2,187.00	\$2,187.00	0.00
Total	\$31,630.00		\$31,387.00	\$30,245.00	\$1,142.00
Total Amount Due Upon Receipt :					\$1,142.00

Email invoice to : tmountford@lppnrd.org and jbreunig@lppnrd.org



**Monthly Progress Report
Wahoo Creek Watershed WQMP Update
Lower Platte North NRD**

JEO Project #: 170124.00
Through: February 28, 2022



- 1. Project activities during current period**
 - Ongoing coordination with LPNNRD and NDEE.
 - Internal project management.
 - Final draft of report was provided for review to NDEE/LPNNRD on January 10, 2022.

- 2. Planned project activities for next period**
 - Complete final edits following LPNNRD and NDEE review
 - Provide final deliverables.
 - Project closeout.

- 3. Information needed from project partners**
 - Review and comments of final draft report needed from NDEE

- 4. Next Meeting Date and Time**
 - None at this time

- 5. Other Notes, Risks, Issues, or Concerns**
 - None at this time.

Please contact Adam Rupe at 402.322.0377 or at arupe@jeo.com for any questions or concerns regarding this progress report

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 600000136
Agreement #: 22NRJFA00010
Project #: NR00GS1
TIN #: 47-0542716

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of October 1, 2021, by the U.S. GEOLOGICAL SURVEY, Nebraska Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT, party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation **installation and operation of 5 cameras and two stage-only streamgages on Lower Platte River bridges**, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$26,440 by the party of the first part during the period October 1, 2021 to September 30, 2024
- (b) \$99,405 by the party of the second part during the period October 1, 2021 to September 30, 2024
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: 0.00

Description of the USGS regional/national program:
Groundwater Streamflow Information Program

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website <https://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000136
Agreement #: 21NRJFA00DRAFT
Project #: NR00GS1
TIN #: 47-0542716

9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Jason Lambrecht
Hydrologic Data Section Chief
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4124
Fax: (402) 328-4101
Email: jmlambre@usgs.gov

Customer Technical Point of Contact

Name: Eric Gottschalk
General Manager
Address: PO Box 126
Wahoo, NE 68066
Telephone: (402) 443-4675
Fax:
Email: egottschalk@lpnrd.org

USGS Billing Point of Contact

Name: Amanda Flynn
Budget Analyst
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4116
Fax: (402) 328-4101
Email: aflynn@usgs.gov

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Fax:
Email: egottschalk@lpnrd.org

U.S. Geological Survey
United States
Department of Interior

Lower Platte North Natural Resources District

Signature

By STEVEN PETERSON Digitally signed by STEVEN PETERSON
Date: 2021.09.09
13:52:28 -05'00' Date: _____
Name: Steven M. Peterson
Title: Director

Signatures

By  Date: 9-30-2021
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:



Dodge County Emergency Management

435 N Park Ave STE 101B Fremont, NE 68025

Office: 402-727-2785

EMAIL: emergencymanagement@dodgecountyne.gov

September 17th, 2021

TO: Nebraska Emergency Management Agency
ATTN: John Gassmann, State Hazard Mitigation Officer, Hazard Mitigation Unit

FROM: Thomas Smith Dodge County Emergency Management Director

SUBJECT: FEMA-4420-DR-NE Applicant Dodge County Project # 0022 Platte River Gauge Monitoring.

Mr. Gassmann,

This letter is a request to review modifications to the project description, lower number of cameras to five (5), and budget summary items of the project. The goals and intent of the project outlined in the application's detailed scope of work remain the same.

The project original costs were based on using an identified vendor to provide the equipment. Since submission of the application, project partners began facing challenges with the vendor including data software transmission from proposed cameras that made the cameras ineffective and eventually lack of correspondence from the vendor. The partners explored other alternatives including other private vendors, Iowa Flood Center, and USGS to sufficiently meet the intent of the project. Ultimately, USGS was determined the best solution to provide stage-only stream gauges at Highways 77 and 15, five cameras at the identified critical sites, the web services enabling the public and public safety agency access to view the cameras, and ongoing operations and maintenance support.

We are requesting a budget summary change, the one-time cost of the project of equipment and installation for the local (cooperator) partners share is \$38,880.00; camera(s) (5) equipment cost and installation \$19,080.00 and stage river gauge cost \$19,800.00.

Respectfully submitted,

Thomas Smith
Dodge County Emergency Management Director

CC:

- 1: Tom Mountford, Assistant Manager Lower Platte North Natural Resource District
- 2: Lexy Hindt, Deputy State Hazard Mitigation Officer

ENCLOSURE:

USGS Project Cost Breakdown
Budget Summary

Table 1. Summary of proposed funding for the period October 1, 2021 -- September 30, 2024 for the equipment purchase (one-time cost) and operation of stage-only streamgages and gage cameras, supported by the City of Fremont, Dodge County, Lower Platte North NRD, and Papio-Missouri River NRD (herein referred to as Cooperator).

[CMF=USGS, Cooperative matching funds; Cooperator=City of Fremont, Dodge County, Lower Platte North NRD, and Papio-Missouri River NRD; USGS=U.S. Geological Survey]

Station number	Station name	Station funding		
		USGS CMF for Cooperator	Cooperator	Total funding
Stage-Only Streamgages				
06794700	Platte River nr Schuyler, Nebr.	\$4,940	\$14,905	\$19,845
06796450	Platte River at Fremont, Nebr.	\$4,940	\$14,905	\$19,845
	Equipment cost (one-time cost, no install cost)	\$0	\$19,800	\$19,800
	Subtotal	\$9,880	\$49,610	\$59,490
Platte River Cameras				
*	Camera operations & web-maintenance	\$10,185	\$30,715	\$40,900
*	Equipment cost & Installation (one-time cost)	\$6,375	\$19,080	\$25,455
	Subtotal	\$16,560	\$49,795	\$66,355
	Funding partner totals	\$26,440	\$99,405	\$125,845

* Cameras at 5 streamgage locations:

- 1) 06794700 Platte River nr Schuyler, and stage-only streamgage
- 2) 06796000 Platte River at North Bend
- 3) 06796450 Platte River at Fremont, and stage-only streamgage
- 4) 06796500 Platte River at Leshara
- 5) Unknown Platte River bridge location

TOTAL ANNUAL COSTS:

		FY 2022	FY 2023	FY 2024	Total
Cameras	Camera operations & web-maintenance (5 gages)	\$13,470	\$13,610	\$13,820	\$40,900
	Equipment cost & Installation (one-time cost)	\$25,455			\$25,455
Stage	Stage-Only streamgage (2 gages)	\$13,060	\$13,210	\$13,420	\$39,690
	Equipment cost (one-time cost, no install cost)	\$19,800			\$19,800
		\$71,785	\$26,820	\$27,240	\$125,845

COOPERATOR ANNUAL COSTS:

		FY 2022	FY 2023	FY 2024	Total
Cameras	Camera operations & web-maintenance (5 gages)	\$10,120	\$10,260	\$10,335	\$30,715
	Equipment cost & Installation (one-time cost)	\$19,080			\$19,080
Stage	Stage-Only streamgage (2 gages)	\$9,800	\$9,950	\$10,060	\$29,810
	Equipment cost (one-time cost, no install cost)	\$19,800			\$19,800
		\$58,800	\$20,210	\$20,395	\$99,405

USGS ANNUAL COSTS:

		FY 2022	FY 2023	FY 2024	Total
Cameras	Camera operations & web-maintenance (5 gages)	\$3,350	\$3,390	\$3,445	\$10,185
	Equipment cost & Installation (one-time cost)	\$6,375			\$6,375
Stage	Stage-Only streamgage (2 gages)	\$3,260	\$3,285	\$3,335	\$9,880
	Equipment cost (one-time cost, no install cost)	\$0			\$0
		\$12,985	\$6,675	\$6,780	\$26,440

ASSUMPTIONS:

1) Stage-only gages will be radar stage sensors and wire-weight reference gages mounted on the upstream side of bridges. Radar stage sensor may be affected by channel ice during winter periods, and data during this affected timeframe might be unusable. Telemetry will be via satellite. Data will be archived and available on USGS NWIS web.

2) Camera installations will be on the upstream side of bridges. Telemetry will be via modem. Photos will be archived internally at the USGS Nebraska Water Science Center, and will be available on USGS NWIS web.

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000136
Agreement #: 22NRJFA00010_02
Project #: NR00GS1
TIN #: 47-0542716

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of October 1, 2021, by the U.S. GEOLOGICAL SURVEY, Nebraska Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT, party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation **for equipment for camera and stream monitoring for the Lower Platte River**, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$0.00 by the party of the first part during the period October 1, 2021 to September 30, 2022
- (b) \$38,880 by the party of the second part during the period October 1, 2021 to September 30, 2022
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Description of the USGS regional/national program:
Groundwater Streamflow Information Program

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Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000136
Agreement #: 22NRJFA0010_02
Project #: NR00GS1
TIN #: 47-0542716

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USGS Technical Point of Contact

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U.S. Geological Survey
United States
Department of Interior

Lower Platte North Natural Resources District

Signature

STEVEN
PETERSON

Digitally signed by STEVEN
PETERSON
Date: 2022.02.14 14:48:53 -06'00'

By _____
Name: Steven M. Peterson
Title: Director

Signatures

By _____ Date: _____

Name:
Title:

By _____ Date: _____

Name:
Title:

By _____ Date: _____

Name:
Title:

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000136
Agreement #: 22NRJFA00010_01
Project #: NR00GS1
TIN #: 47-0542716

Fixed Cost Agreement YES[X] NO[]

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- (a) \$26,440 by the party of the first part during the period October 1, 2021 to September 30, 2024
- (b) \$60,525 by the party of the second part during the period October 1, 2021 to September 30, 2024
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: 0.00

Description of the USGS regional/national program:
Groundwater Streamflow Information Program

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Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000136
Agreement #: 22NRJFA0010_01
Project #: NR00GS1
TIN #: 47-0542716

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Fax:
Email: egottschalk@lpnrd.org

U.S. Geological Survey
United States
Department of Interior

Lower Platte North Natural Resources District

By STEVEN PETERSON

Name: Steven M. Peterson
Title: Director

Signature
Digitally signed by STEVEN PETERSON
Date: 2022.02.14 14:46:31 -06'00'

Signatures

By _____ Date: _____

Name:
Title:

By _____ Date: _____

Name:
Title:

By _____ Date: _____

Name:
Title:



Rawhide Creek WFPO Plan-EA Monthly Meeting - Agenda

DATE AND TIME | February 28, 2022; 1:00 p.m. – 2:30 p.m.

PROJECT | Rawhide Creek WFPO Plan-EA

JEO PROJECT NO. | 200881.00

LOCATION | Virtual via Teams

Attendees:

JEO: John Petersen, Lalit Jha, John Callen, Adam Rupe, Kevin Kruse, Coleen Ocken, Ann Nissen

NRD, County, Etc: Tom Smith, Tom Mountford, Sean Elliott, Pat Tawney, Dave Goedeken

Primary Discussion Topics

1. Hydrology and Hydraulics update
2. Upcoming meetings

1. East Drainage Update –

2. Project Milestones and Schedule Overview

Milestone	Meeting Name	Focus	Schedule
Kick-off Meeting	Kickoff Meeting	Project Overview & Planning Process	September 22, 2021
Public & Agency Scoping Meetings	Scoping Meetings #1	Scoping	November 18, 2021
Post-Discussion of Scoping	Post-Scoping	Hydrology & Hydraulics Purpose & Need Refinement Alternatives Identification	<i>Tentative: Early January 2022</i>
Review Data Collection Needs			
Alternatives Discussion			
Plan-EA Development Phase 30%	30%	Hydrology & Hydraulics, existing conditions	<i>March 30, 2022 1:00 PM, Teams</i>
Review Conceptual Design Alternatives	Alternatives Review	Wetland/Aquatic Impacts 404(b)(1) analysis	<i>Tentative: May 2022</i>
<i>Cost/logistics/technology</i>			
<i>Avoid/minimize/mitigate</i>			
Plan-EA Development Phase 60%	60%	Alternatives Evaluation Economic Analysis	<i>Tentative: June 2022</i>
Review Clean Water Act (CWA)	Clean Water Act Review	Wetland/Aquatic Impacts 404(b)(1) analysis	<i>Tentative: August 2022</i>
<i>Requirements [including 404(b)(1)]</i>			
Plan-Development Phase 90%	90%	Alternative Selection Mitigation and other issues Next Steps in Process	<i>Tentative: September 2022</i>
Prepare Draft Plan-EA for NRCS submittal to NWMC	n/a	n/a	<i>Tentative: October 2022</i>
Public & Agency Scoping Meetings	Scoping Meetings #2	Presenting preferred alternative	<i>Tentative: December 2022</i>
Addressing NWMC review comments	Comment Review Meeting	Developing responses to comments from NWMC	
Public & interagency review	n/a	n/a	<i>March 2023</i>
Finalization of Plan-EA			
Prepare Final Plan-EA for NRCS submittal for Authorization			



Rawhide Creek WFPO Plan-EA Monthly Meeting - Agenda

3. H&H Modeling / Economic Analysis

- a. Existing conditions H&H models
 - i. Update on status of models
 - 1. Rawhide basin is in good condition
 - a. Review of different recurrence intervals
 - 2. 2016 Flood event
 - a. Have received some photos and information
 - b. Looking for local feedback on our results
 - 3. Next steps:
 - a. Finalize internal QC
 - b. Finalize Shell Creek and Platte River overflows approach
 - c. Review Highway 30 impacts.
 - ii. Model sharing update
 - 1. Received modeling information from FYRA and currently incorporating into our approach with Shell Creek and Platte River overflows

4. Upcoming Public Involvement

- a. Community meetings, Round 1 (of 2)
 - i. Need to schedule - late March
 - ii. Fremont: to update JWMAB, local officials
 - iii. North Bend: open to public
- b. One-on-one property owner meetings
 - i. Begin notifying at around the Alternatives Review meeting stage (May)

5. Alternative Identification & Analysis

- a. Will begin to outline alternatives in February-March
 - i. Want to use Round 1 community meetings to help get local support for anything we propose

6. Plan-EA Document & NEPA Review

- a. Chapters 1-3, for initial review
- b. Update on NRCS and USACE

7. Budget Updates

- a. \$147,000 / \$669,300 (22%)

8. Questions/Needs/Next Steps

- a. Next Progress Meeting (Recurring meeting)
 - i. March 21, 2022; 1 PM to 2PM @ EM Office and Teams
 - 1. John P. on vacation, look at rescheduling?
- b. Summarize Action Items from today's meeting
 - i.
 - ii.