

Water Committee Meeting
Wednesday, November 1, 2023 6:00 PM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS

2. REGULATORY

2.A. GROUND WATER MANAGEMENT AREA

2.A.1. Irrigation Conversion

Ross Janak is requesting to convert some irrigated acres in Section 36-15N-3E on behalf of the Prochaska Family. This tract of land is located in SQS #1 south of Bruno. (attachments) At the present time, Ross is irrigating the NE1/4 with a pivot and high volume gun. He will be moving the center point of the pivot and increasing its length. The new setup would irrigate the same number of acres but would irrigate some dryland acres in the SE1/4. He would not be using the high-volume gun and giving up acres in the NE1/4.

The committee and staff felt eliminating the high-volume gun would increase irrigation management efficiency.

2.A.2. Irrigation Transfer Requests in the Restricted Development Areas

Clint Ratkovec discussed with the Committee transferring irrigated acres within SQS #1. He has some dryland acres and wants to drill a well and irrigate some dryland acres. He has located some certified irrigated acres within SQS #1 that a producer is willing to transfer the irrigated rights from.

Current SQS#1 does not allow new high capacity irrigation wells with new irrigated acres. The committee discussed with Clint the options that needed to be considered and asked staff to obtain irrigated information on land that was being considered for transfer.

2.A.3. Variance Request in the Hydrologically Connected Area (Limited Development Area)

Sylvia Walters applied for a variance this year and scored 371.8, so it was not approved. Brad Wallin was using his well to irrigate Sylvia Walter's tract. On May 10, 2021 an expansion of acres with an allocation was granted. The motion was as follows: "Recommend to approve the allocation expansion variance on the condition that a letter is received from Brad Wallin to allow the use of well G-144086 to irrigate the S½NE¼ Section 15-21N-5W for 13.01 inches over a required 3 year period. "

The 3 year period expired this year but Brad and Sylvia would still like to continue irrigating as the equipment is in place. They are willing to stay within the allocation of 13.01, in which they used 7.72 inches over the last 3 years. They are asking, if the Sylvia Walter's variance does get approved in

2024, then expansion of acres with an allocation would expire, otherwise they would continue with the 13.01 acre inch allocation.

2.A.4. Well Permit Program

2.A.5. Cost Share Programs

2.A.5.a. Irrigation Well Sample Kits

334 kits to producers in 2023.

2.A.5.b. Flow Meter Maintenance Program

Requests for proposals were sent out in the first part of October to area flow meter companies, irrigation system dealers, well drillers, and pump installers. The NRD received one bid from Tri City Meters with the proposal attached. The proposal came back with the responsibility of the NRD for billing the landowners. Mark from Tri City Meters's concern is that they do not have any jurisdiction if the bill is not paid, other than small claim courts. The NRD has the requirement of a working meter in the GW Rules and Regulations. Mark is willing to bill the landowners but would want the NRD to be the enforcing agency if payment is not received.

2.A.6. Bellwood Phase 2 Area

2023 is the twenty-first year for this Phase 2 Area.

	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen 10.01 to 15 ppm	Percent Nitrate-nitrogen greater than 15 ppm
	0 to 25 ppm	46.3% (44 of 95)	8.4% (8 of 95)	45.3% (43 of 95)	
	0 to 25 ppm	47% (44 of 94)	15% (14 of 94)	38% (36 of 94)	
	0 to 24 ppm	41% (29 of 71)	14% (10 of 71)	45% (32 of 71)	
	0 to 31 ppm	48% (48 of 100)	9% (9 of 100)	43% (43 of 100)	
	0 to 28 ppm	53.75% (43 of 80)	7.5% (6 of 80)	38.75% (31 of 80)	
	0 to 22 ppm	45.5% (41 of 90)	15.5% (14 of 90)	39% (35 of 90)	
	0 to 35.7 ppm	48.65% (54 of 111)	11.71% (13 of 111)	39.64% (44 of 111)	

	0 to 26.6 ppm	51% (56 of 110)	6% (7 of 110)	43% (47 of 110)	
	0 to 28.9 ppm	57% (61 of 107)	9% (10 of 107)	34% (36 of 107)	
	0 to 25.8 ppm	50% (53 of 107)	9% (10 of 107)	14% (44 of 107)	26%
	0 to 22.3 ppm	51% (55 of 108)	13% (14 of 108)	18% (39 of 108)	20%
	0 to 32.3 ppm	43% (31 of 72)	8% (6 of 72)	14% (35 of 72)	33%
	0 to 35.1 ppm	34% (25 of 74)	11% (8 of 74)	26% (41 of 74)	26%
	0 to 23.5 ppm	36% (27 of 74)	15% (11 of 74)	19% (36 of 74)	22%
	0 to 30.9 ppm	40% (25 of 63)	11% (7 of 63)	22% (31 of 63)	28%
	0 to 24.5 ppm	46% (22 of 48)	10% (5 of 48)	28% (21 of 48)	22%
	0 to 20.5 ppm	33.33% (20 of 60)	13.33% (8 of 60)	35% (21 of 60)	18.33% (11 of 60)
	0.12 to 27.7 ppm	40.6% (26 of 64)	15.6% (10 of 64)	25% (16 of 64)	18.8% (12 of 64)
	0.13 to 23.0 ppm	43.75% (28 of 64)	12.50% (8 of 64)	26.56% (17 of 64)	17.19% (11 of 64)

	0 to 19.8 ppm	50.8% (32 of 63)	15.9% (10 of 63)	20.6% (13 of 63)	12.7% (8 of 63)
--	---------------	------------------	------------------	------------------	-----------------

2.A.7. Richland - Schuyler Phase 3 Area

2023 is the eighth year of this Phase 3 Area. This Phase 3 area went into effect September 1, 2015. The 55 sections of this area first went into a Phase 2 Area in 2004. The ten sections that were in Phase 2 are now in Phase 3. As such, the 2020, 2021 and 2022 numbers (at bottom of table) are for 65 sections.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm
2004	0 to 47 ppm	30% (42 of 139)	10% (14 of 139)
2005	0 to 120 ppm	31.3% (74 of 236)	10.2% (24 of 236)
2006	0 to 53 ppm	28% (50 of 181)	14% (26 of 181)
2007	0 to 99 ppm	32% (75 of 231)	10% (22 of 231)
2008	0 to 46 ppm	28% (53 of 190)	12% (23 of 190)
2009	0 to 57 ppm	33% (72 of 216)	6% (13 of 216)
2010	0 to 57.5 ppm	31% (70 of 229)	7% (15 of 229)
2011	0 to 65.8 ppm	28% (67 of 241)	9% (21 of 241)
2012	0 to 52.6 ppm	29% (70 of 241)	9% (21 of 241)
2013	0 to 94.0 ppm	25% (63 of 252)	9% (23 of 252)
2014	0 to 101.0 ppm	27% (68 of 251)	9% (22 of 251)
2015	0 to 53.3 ppm	23% (55 of 238)	12% (29 of 238)
2016	0 to 50.5 ppm	25% (58 of 228)	10% (22 of 228)
2017	0 to 53.4 ppm	25% (60 of 238)	6% (14 of 238)
2018	0 to 56.9 ppm	26.5% (50 of 189)	6.3% (12 of 189)
2019	0 to 39.4 ppm	25% (53 of 209)	11% (22 of 209)
2020	0 to 50.8 ppm	26% (69 of 261)	6% (15 of 261)
2021	0 to 43.0 ppm	25.5% (67 of 263)	8.4% (22 of 263)
2022	0 to 58.5 ppm	23.0% (57 of 248)	6.45% (16 of 248)
2023	0 to 46.5 ppm	26% (68 of 263)	6% (17 of 263)

All sample results have been sent to producers.

2.A.8. Groundwater Management Plan Update

Attached is a working document to start the discussion of updating the Groundwater Management Plan.

The staff went through the working document with the Committee. As the plan is being developed, the Committee will continue to provide input. Staff will start the process of developing a RFQ for qualifying firms to assist in developing the plan.

2.B. GROUND WATER ENERGY LEVELS

Staff is working on fall water levels.

3. GROUND WATER PROGRAMS

3.A. DECOMMISSIONED WELL PROGRAM

3.A.1. Well Estimates

new wells has been reviewed and approved for decommissioning since the last Committee meeting.

Well Owner	Type of Well	Cost Share Estimate	County
UNL	Irrigation	1414.50	Saunders

3.A.2. Plugged Wells

1 well has been plugged, reviewed, and ready for cost share payment approval this month. We are waiting for the paid invoice but that will be sometime in the next week.

Well Owner	Type of Well	Cost Share Estimate	County
Luke and Christina Glaser	Hand Dug	1044.30	saunders

3.B. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

3.B.1. Phase Area Update

LRE invoice is attached for \$1,982.25 for Hydrological Assessment per contract. This project is completed with the staff meeting with LRE to review the deliverables.

Received invoices for Lanny and Gloria Schmid on the following:

- Gravity to Pivot Conversion - \$10,000 LPNNRD cost-share. (N1/2 N1/2 SE1/4 S30--17N-3E, Colfax County.)
- Gravity to Pivot Conversion-\$10,000 LPNNRD cost-share. (NW1/4 SW1/4 29-17-3E, Colfax County.)
- Soil Moisture Sensors - \$750 LPN cost-share. (N1/2 N1/2 SE1/4 S30--17N-3E, Colfax County.)
- The total cost-share payment is \$20,750 with 60% reimbursed from the WSF grant for \$12,450 and LPNNRD share of \$8,300.

Attached is an updated report on cost-share items that have been approved for reimbursement through November 1, 2023. This is a 60-40 cost-share through a WSF grant.

This a reminder of how Phase Four could be established.

Rule 1 Phase Four Criteria

When levels of nitrate-nitrogen exceed 15.01 parts per million, or levels of other human induced non-point source contaminants exceed 100% of the MCL or LHAL, a Phase Four area will be declared. Within the same aquifer; boundary setting for Phase Four Areas will be initiated when: water quality analytical results within a minimum 9 square mile area are at identified trigger levels for a minimum of 2 sampling events. The area must contain a minimum of 10 registered wells and contaminant trigger levels must be exceeded in over 50% of the wells. When irrigation wells are not available, other wells may be used. Initial investigation by the District will be to determine if the contamination is a result of point-source or non-point source pollution. If non-point source pollution is found to be the reason, more intensive investigation for boundary setting will ensue. If a Wellhead Protection Area should be established due to non-point source pollution, the District may set boundaries that are less than 9 square miles. After the establishment of a Phase Four Area, if non-point source contamination levels should decline, two consecutive sampling events below the trigger levels are needed before the Area could be placed in Phase Three, Phase Two or Phase One.

Staff presented some nitrate and uranium information to the Committee and showed a couple of options for a Phase 4 area. They will discuss this item in more detail at the retreat and the next Water Committee.

3.B.2. Lower Platte River Consortium

To recap, we had a presentation from John Engel covering the projects currently listed in the plan, discussed a water conservation program proposed by NeDNR, and decided to hold a November ILCA meeting at the Lower Platte South NRD office at 10 a.m. on November 14th.

Attached is an interlocal agreement to keep the consortium together until December 4, 2024. There is no cost associated with this agreement, it allows the group to continue communicating on projects and conservation efforts.

3.C. NEW MONITORING WELLS

Eric updated the Committee on the conversation with the Pessel Company, which METOs is a subsidiary of. The CEO agreed that the splice was an inefficient way of installing their equipment. They will be turning this issue over to their insurance company for compensation. If the insurance company denies the claim, they verbally commented that they will assist in correcting the issue.

Attached is a quote from In-Situ for \$1,127 from another data logger that had gone bad from moisture. The cable was also damaged, in which 61 feet from the top of the cable had to be cut and a new end was attached.

3.D. Groundwater Retreat

A groundwater retreat is being planned for the water committee and any other board members for Wednesday, November 29 from 2:30 to 5:30 pm. The Water Committee meeting will start at 6 pm.

Tentative Agenda Item:

- In the first 30 minutes, there will be an update and review of general groundwater information.
- Discussion on SQS #2 and management
- Nitrogen Management
- Crop Insurance and changing practices.
- Other Issues?

4. SURFACE WATER PROGRAMS

5. OTHER

The GMDA water conference will be held in Nashville on January 23-25, 2024

5.A. COMMENTS FROM THE PUBLIC

23 October 2023

Lower Platte North
Natural Resources District
P.O. Box 126
511 Commercial Park Road
Wahoo, NE 68066

Re: G-049997; Bill P. Pivot
PROCHASKA FAMILY TRUST

Dear Members of the Lower Platte North NRD:

Please accept this letter as confirmation that [full name please—Ross Janak?] is explicitly authorized to speak on behalf of the Prochaska Family Trust regarding the pivot my father, William J. Prochaska, installed on his farm decades ago. I certify that I am the daughter of William J. and Martha (Bruner) Prochaska, and the Trustee of the Prochaska Family Trust.

Although I cannot be present in person when Mr. Janak appears before you, I can be reached via text or telephone call at: +1.510.506.0726. Additionally, I can be reached via email at patprochaska@gmail.com. Time-wise, France is seven hours ahead of Nebraska.

SINCERELY,

PATRICIA A. PROCHASKA
TRUSTEE, PROCHASKA FAMILY TRUST

33B Rue Philippe 68220 Hegenheim FRANCE

Details

Organization
Janak Farms

Field
New Irrigated

Area

205_63STXR

Filename

New Irrigated_205_63STXR_20231025

Distribute

Dissolve

Delete

ZONE 205_63STXR

AREA

1 1 59.55 ac

2 2 0.001 ac

3 3 137.956 ac

4 4 9.634 ac

5 4 0.062 ac

Total applied 512.204



Area

2021RXF

Filename

Distribute Dissolve Delete

ZONE	2021RXF	AREA
1	<input type="text" value="1"/>	10 504 ac
2	<input type="text" value="2"/>	100 245 ac
3	<input type="text" value="3"/>	11 395 ac
4	<input type="text" value="4"/>	0 002 ac
5	<input type="text" value="5"/>	85 055 ac

Total applied 670 466

-
-
-
-
-

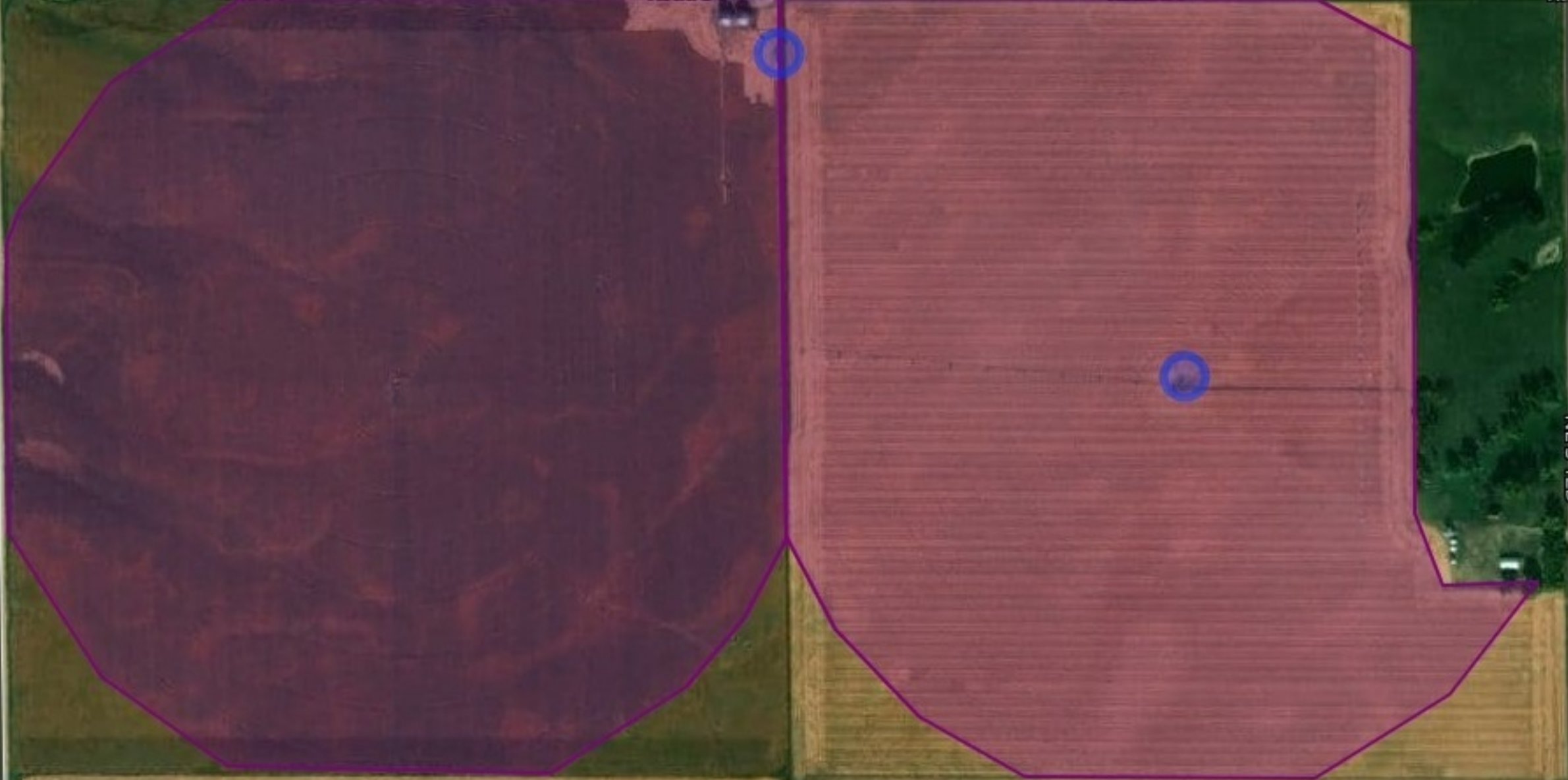


Road 34

Road 34

Road 34

Road 34



NE-S-12D

NE-S-12D

NE-S-12D

27 October 2023

Lower Platte North
Natural Resources District
P.O. Box 126
511 Commercial Park Road
Wahoo, NE 68066

Re: G-049997; Bill P. Pivot
PROCHASKA FAMILY TRUST

Dear Members of the Lower Platte North NRD:

Please accept this letter as confirmation that Ross Janak is explicitly authorized to speak on behalf of the Prochaska Family Trust regarding the pivot my father, William J. (Bill) Prochaska, installed on his/our family farm decades ago. I certify that I am the daughter of William J. and Martha (Bruner) Prochaska, and the Trustee of the Prochaska Family Trust.

Although I cannot be present in person when Mr. Janak appears before you given distances involved, I can be reached via text or telephone at +1.510.506.0726. Additionally, I can be reached via email at patprochaska@gmail.com. The time difference between Nebraska and my home in France is seven hours, but you are welcome to email me or text me at any hour.

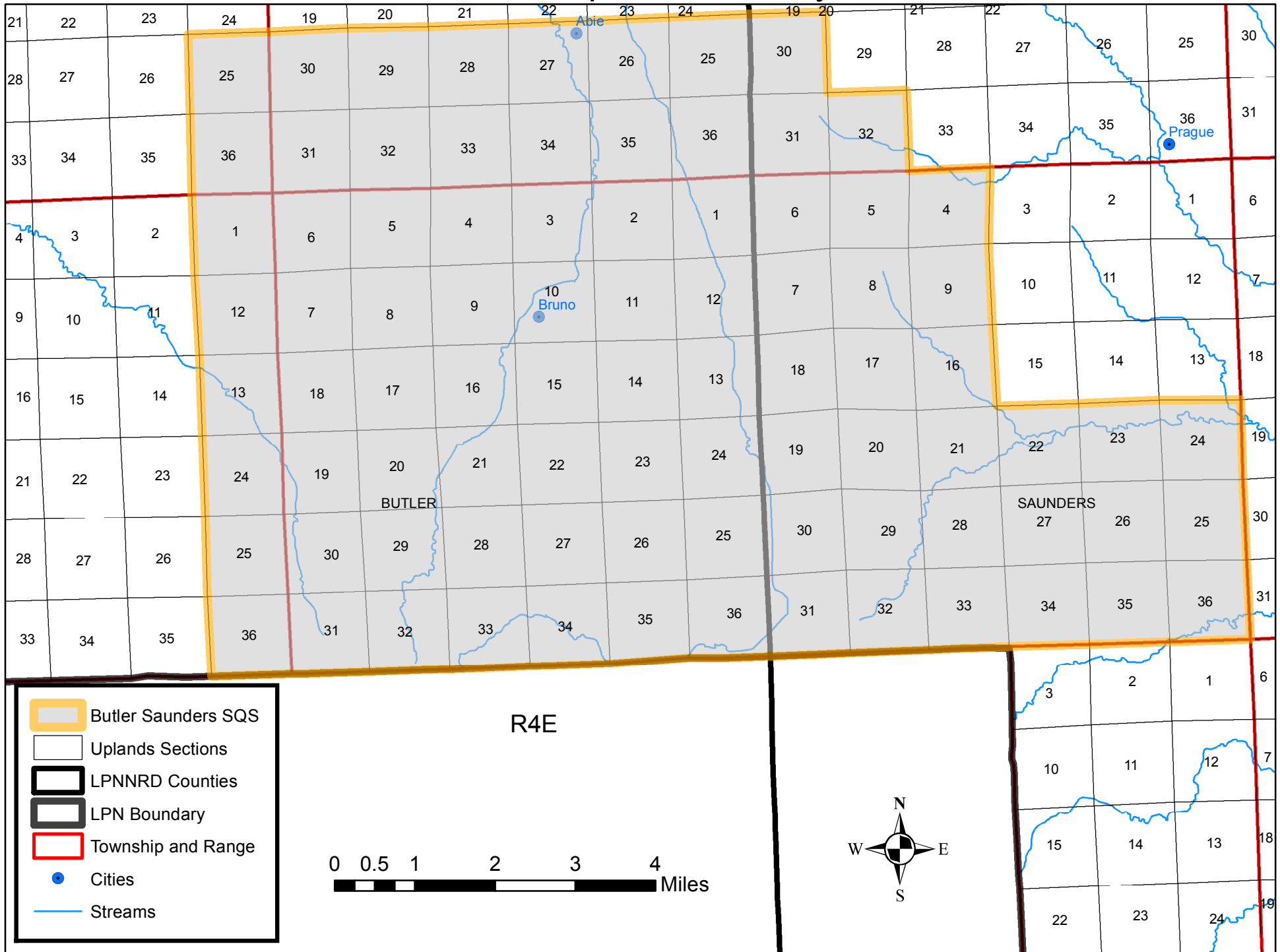
SINCERELY,



PATRICIA A. PROCHASKA
TRUSTEE, PROCHASKA FAMILY TRUST

cc: Ross Janak, Janak Farms

Butler-Saunders Special Quantity Subarea





is proud to present a bid to

Lower Platte North Natural Resources District

For

CONTRACT IRRIGATION FLOW METER MAINTENANCE

FALL 2023



8-26-2020

Members of the board of the Lower Platte North NRD,

Below are the prices Tri City Meters, Inc. have compiled.

Flat Fee for each MECHANICAL METER site visited, including travel and labor cost: \$80.00 per site

Flat Fee for each ELECTRONIC METER site visited that requires a battery change: \$95.00 per site.
(NRD Tech will be able to confirm when battery was replaced when he/she shows up on site, without breaking the seal of the meter.)

Meter Covers: \$25.00 each

Senninger Batteries: \$21.00 ea. (2 required per meter)

SeaMetrics Batteries: \$105.00 (one per meter)

Additional cost for the Electronic meters is to cover additional labor, additional parts, seals, dry packs, used in the battery replacement process. Batteries to be supplied by NRD, or NRD to reimburse TCM for price of batteries in addition to the labor bid above. (Battery cost is NOT included in our bid.)

Please feel free to contact me if you have any questions.

Mark Vanosdall
President
Tri City Meters, Inc.

Ph: 308-379-2013
Cell: 308-379-9989



Experience and Training

Tri City Meters, Inc. (TCM Inc.) has over 33 years of experience working with Flow Meters. Mark Vanosdall, President of Tri City Meters, Inc. graduated from Marquette High School, and worked for Great Plains Meters in Aurora from 1990-2002 before starting Tri City Meters, Inc. With our primary focus being a service company, we have worked with other NRD's in the state who state our routine maintenance program has reduced their number of repairs per year by more than 75%!

Some of the meters we are experienced with are: Sparling, McCrometer, SeaMetrics, Geysler, Water Specialties, Fluidyne, Signet/Senninger, Rockwell/Sensus, Badger, and Master Meter.

We have been factory trained at McCrometer in Hemet, California, to build and repair both McCrometer and Water Specialties meters.

We have been factory trained to repair meters at the following factories: Geysler, McCrometer, SeaMetrics, Sparling and Signet (now Signet makes the meters with the Senninger name on them).

We are a factory authorized service center for Geysler flow meters.

We have contracted with Upper Big Blue NRD since 2010, (13 years). We are just completing our second 4 year contract with Lower Platte North NRD. We have also contracted in the past with Middle Republican NRD and North Platte NRD.

Our goal out in the field is to provide the patrons of the Lower Platte North NRD, a preventative maintenance program to your water meters. The longer a meter is out in the field without any attention, the larger chance of costly repair bills. We want to be able to eliminate the costly

repair bills by catching small problems or potential problems early, saving you time and money in the end.

It is a policy of Tri City Meters, Inc. to leave all properties in the same condition as we found them. This also applies to fences and gates, if a gate is open we leave it open, if they're closed, we close them. We dispose of our trash in our trucks, leaving you no mess. If you should wish to contact us with comments or questions, I invite you to do so either by calling the office 308-379-2013, Cell phone 308-379-9989 or by email tricitymeters@gmail.com.

If additional repairs are needed:

If in the event we find your meter needs more than just preventative maintenance, whether it be bearings, a register etc...we will contact you to advise you of the problem. If you elect to have the repair done by us while on site, you would again save time and money as opposed to removing the meter yourself and sending it in to us or someone else at a later time. Again, little problems corrected early, will save you money in the end.

Sincerely,

Mark Vanosdall, President

Tri City Meters, Inc.

308-379-2013

tricitymeters@gmail.com

www.tricitymetersinc.com



10-25-2023

Thank you for the opportunity to quote our services to the Lower Platte North NRD. My name is Mark Vanosdall, and together with my wife, we own Tri City Meters, Inc. I started in the water meter field in 1990, and in 2002, we started our own company, with a primary focus on service. We have performed field maintenance for several of the NRD's in Nebraska, so I would like to outline what you will get for your money, should you choose to contract with us.

- ❖ We are already set up with multiple trucks, atvs, and utvs (side by sides) to handle not only the easy ones to get to, but also the harder ones to access.
- ❖ Should we find meters that need repairs beyond the general maintenance, we repair meters on site in most cases (if the farmers elect us to do his/her repairs), eliminating the need to have the meters out of the line and off site, for any length of time.
- ❖ Before we remove a meter for service, the pipe is marked so the meter is put back in the exact same place it was removed from. We do this in effort to make sure the meter seals back up completely around the hole, as well as reassure us meters are put back into the pipe with the same orientation as they were removed from. (No meters installed backwards!)
- ❖ Upon the completion of our "service work", we leave a sticker on the meter to let the farmer/landowner know who was out and on their property, and who to call should they feel something wasn't done right, or if they have questions about what was done. This has worked to try to eliminate calls into YOUR office, with questions we can easily answer.
- ❖ In addition to all the labor and parts to perform the maintenance, we provide you with the following information in **DIGITAL FORM**, saving your district personnel time in manually entering it.
 1. Odometer Reading
 2. Any differences we find in the Serial # of the meter.
 3. Meter Status... Properly working, Showing Wear, Not working. Notes are taken in a notes column to indicate what is showing wear, or why the meter is not working.
 4. Whether or not the meter has a cover on it.
 5. All this information is provided to your district in a spreadsheet, saving your district personnel from having to do data entry.
 6. We also take pictures of the odometer reading and the installation of the meter. These can be either uploaded to a site of your choice, or downloaded onto a cd, and delivered to your office at the completion of the work.
 7. In addition to these listed above, we will make the adjustments to compile the data your district has asked for in the request for bids.

A couple of items for you to consider, but **they are completely optional**. The prices indicated below would be in addition to meter service pricing reflected on our bid sheet and can be added upon your request.

Meter Covers: Meter covers do a great job in helping the meters last longer. It puts another layer between the register and moisture. They also protect the integrity of the lens of the canopy, making them easier to read in the future. The Upper Big Blue has one of these installed on each meter that doesn't already have one on it. Price on the covers is \$25.00 each.

Victaulic Gaskets: Some of the older style meters use a Victaulic gasket to seal the meter to the pipe. The price for each of these gaskets is \$20.00 each.

Please feel free to contact me if you have any questions.

Mark Vanosdall
President
Tri City Meters, Inc.
Ph: 308-379-2013
Cell: 308-379-9989

DRAFT WORKING DOCUMENT

Daryl's comments or questions are highlighted in bold.

LPN Ground water management plan is 91 pages with 60 some exhibits with the goal to make it 40-50 pages with 30 exhibits.

46-709 from State Statutes

Ground water management plan; required; contents.

Each district shall maintain a ground water management plan based upon the best available information and shall submit amendments to such plan to the Director of Natural Resources for review and approval.

The plan shall include, but not be limited to, the identification to the extent possible of:

- (1) Ground water supplies within the district including transmissivity, saturated thickness maps, and other ground water reservoir information, if available:
 - a. **New maps were developed in 2023.**
- (2) Local recharge characteristics and rates from any sources, if available;
 - a. **New maps were developed in 2023.**
- (3) Average annual precipitation and the variations within the district;
 - a. **Will need to update.**
- (4) Crop water needs within the district;
 - a. **Water Use reports from 1200 meters.**
 - b. **Crops still need the same amount of water?**
- (5) Current ground water data-collection programs;
 - a. **Water Levels from 1987 plus data logger information**
- (6) Past, present, and potential ground water use within the district;
 - a. **Map of tracts of land that is currently not being irrigated.**
- (7) Ground water quality concerns within the district;
 - a. **Vulnerability maps have been developed.**
 - b. **Public Health Concerns**
 - c. **New Triggers?**
- (8) Proposed water conservation and supply augmentation programs for the district;
 - a. **Reference new drought plan**
- (9) The availability of supplemental water supplies, including the opportunity for ground water recharge;
 - a. **Discussion on this item with consultant and Committee.**
 - b. **New recharge map has been developed.**
- (10)The opportunity to integrate and coordinate the use of water from different sources of supply;
 - a. **Rural Water**
- (11)Ground water management objectives, including a proposed ground water reservoir life goal for the district. For management plans adopted or revised after July 19, 1996, the ground water management objectives may include any proposed integrated management objectives

for hydrologically connected ground water and surface water supplies but a management plan does not have to be revised prior to the adoption or implementation of an integrated management plan pursuant to section [46-718](#) or [46-719](#);

a. **Reference IMP from 2018.**

(12) Existing subirrigation uses within the district;

a. **Map could be drawn using current water levels and if levels are 4-6 feet below surface.**

(13) The relative economic value of different uses of ground water proposed or existing within the district; and

a. **Domestic, industrial and rural use.**

(14) The geographic and stratigraphic boundaries of any proposed management area.

a. **Show current boundaries or management areas.**

b. **Showing areas of concern??**

If the expenses incurred by a district preparing or amending a ground water management plan exceed twenty-five percent of the district's current budget, the district may make application to the Nebraska Resources Development Fund for assistance.

Each district's ground water management plan shall also identify, to the extent possible, the levels and sources of ground water contamination within the district, ground water quality goals, long-term solutions necessary to prevent the levels of ground water contaminants from becoming too high and to reduce high levels sufficiently to eliminate health hazards, and practices recommended to stabilize, reduce, and prevent the occurrence, increase, or spread of ground water contamination.

(1) Nitrate levels

a. **Organic and Inorganic?**

(2) Uranium Levels

(3) Iron

(4) Magnesium

(5) Public Health Concerns

(6) List of BMPs

(7) Urban BMPs

(8) PFOS?

(9) Need to update Table 1 or is it needed?

Things that could be condensed.

- General description of the NRD
- Geology could be shown with a map and basic information.
- Description of the Groundwater Reservoir could be a map and described briefly.
- Groundwater Flow Systems – Seepage, land slope and soils data,
- Herbicide and Pesticide chart might not be needed?
- Groundwater levels could be referenced to a source instead of graphs.

Items to be discussed.

- Groundwater quality triggers and types of wells samples.
- Groundwater quantity levels and acceptable depletions.
- Stakeholder groups and how many.



Daryl Andersen
 Lower Platte North NRD
 511 Commercial Park Road
 Wahoo, NE 68066-0126

October 16, 2023
 Project No: 5036LPN02
 Invoice No: 24368

Project 5036LPN02 LPNNRD Hydrogeologic Assessment

Professional Services through September 25, 2023.

Task 03 Deliverables

Professional Personnel

	Hours	Rate	Amount	
Mohr, Jonathan	7.00	183.00	1,281.00	
Sopiwnik, Roscoe	3.75	187.00	701.25	
Totals	10.75		1,982.25	
Total Labor				1,982.25
		Total this Task		\$1,982.25
		Total this Invoice		\$1,982.25

Outstanding Invoices

Invoice Number	Date	Balance	
24101	9/15/2023	4,872.13	
		4,872.13	
		Total Now Due	\$6,854.38

TERMS: Net 30 days. A finance charge of 1.5% per month is applied to past due amounts.

Schuyler – Richland Nitrogen Management Area
Gravity to Pivot/Sub-Surface Drip Conversion Cost Share Program

OK
 RR

Landowner Information

Name Gloria Schmid
 Address / Town / Zip code: 2535 PARK PLACE DRIVE FREMONT NE 68025
 Phone Number (402) 720-5042 Gloria, 720-3018 Larry

Field Location of Pivot/SDI Conversion

Legal Description of where Pivot/SDI is installed: Quarter N¹/₂ N¹/₂ Quarter SE ¹/₄
 Section 30 Township 17 Range 3 E of W (circle one) Acres 40
 County Colfax Well Registration Number G-015886

Flow Meter Information (to be determined after installation)

Date you purchased the flow meter Existing on both existing wells
 Date flow meter installed 2017
 Manufacturer of Flow Meter McCrometer
 Serial Number of Flow Meter (west well)
 Pipe Diameter in Inches (circle one): 6 inch, 8 inch, 10 inch,
 Flow Meter installed near (circle one): Well Pivot Point Other _____

Signature required: I attest that I have read and understand the instructions given and that the above information is accurate for this flow meter cost share application. Landowner signature is required if you do not own the tract.

Your Signature: [Signature]
 Landowner Signature: Gloria Schmid

Submit the Following:

One W-9 Form / One Citizen Attestation Form / One Cost-Share Application Form (with Receipt) for each Pivot/SDI and flow meter purchased and installed.

If Approved:

LPNNRD will distribute funds after inspections and all necessary documents are submitted.

For Use by LPNNRD ID# Pivot-1 Nitrogen Certification #: 7439 Date: 4/1/2024

Date Received	<u>2/3/23</u>	Date Reviewed by Water Committee	
All Forms submitted	<u>10/20/23</u>	Date Approved by NRD Board	
Date Inspected	<u>8/10/2023</u>	Amount Approved	<u>\$10,000</u>

**Schuyler – Richland Nitrogen Management Area
Gravity to Pivot/Sub-Surface Drip Conversion Cost Share Program**

Landowner Information

Name Gloria Schmidt (continued)
 Address / Town / Zip code: _____
 Phone Number _____

Field Location of Pivot/SDI Conversion

Legal Description of where Pivot/SDI is installed: Quarter NW Quarter SW
 Section 29 Township 17 Range 3 E or W (circle one) Acres 30
 County Colfax Well Registration Number 9-025853

Flow Meter Information (to be determined after installation)

Date you purchased the flow meter Existing on both existing wells
 Date flow meter installed 2017
 Manufacturer of Flow Meter 171° Coorimeter
 Serial Number of Flow Meter _____ (east well)
 Pipe Diameter in Inches (circle one): 6 inch, 8 inch, 10 inch,
 Flow Meter installed near (circle one): Well Pivot Point Other _____

Signature required: I attest that I have read and understand the instructions given and that the above information is accurate for this flow meter cost share application. Landowner signature is required if you do not own the tract.

Your Signature: _____
 Landowner Signature: Gloria Schmidt

Submit the Following:

One W-9 Form / One Citizen Attestation Form / One Cost-Share Application Form (with Receipt) for each Pivot/SDI and flow meter purchased and installed.

If Approved:

LPNNRD will distribute funds after inspections and all necessary documents are submitted.

For Use by LPNNRD ID# Pivot-2 Nitrogen Certification #: 7439 Date: 4/1/2023

Date Received	<u>3/3/23</u>	Date Reviewed by Water Committee	
All Forms submitted	<u>10/20/23</u>	Date Approved by NRD Board	
Date Inspected	<u>8/10/2023</u>	Amount Approved	<u>\$10,000</u>

OK
na

Schuyler – Richland Nitrogen Management Area Soil Moisture Sensors Incentive Program

Landowner Information

Name Gloria Schmid
Address / Town / Zip code: 2535 Park Place Drive, Fremont NE 68025
Phone Number Gloria (902) 720-5042 Lenny 720-3018

Field Location of Soil Moisture Sensors Location:

Legal Description of where Soil Moisture Sensor is installed: Quarter N¹/₂N¹/₂ Quarter SE ¹/₄
Section 30 Township 17 Range 3 (E or W (circle one))
County Cottax Well Registration Number G-015886

Soil Moisture Sensor Company Used: _____

Signature required: I attest that I have read and understand the instructions given and that the above information is accurate for this soil moisture sensor cost share application.

Your Signature: Gloria Schmid

Submit the Following:

One W-9 Form / One Citizen Attestation Form / One Cost-Share Application Form (with Receipt) for Soil Moisture Sensors purchased and installed.

If Approved:

LPNNRD will distribute funds after inspections and all necessary documents are submitted.

For Use by LPNNRD ID# SMS-4 Nitrogen Certification #: 7439 Date: 4/1/2027

Date Received	<u>3/23/23</u>	Date Reviewed by Water Committee	
All Forms submitted	<u>10/20/27</u>	Date Approved by NRD Board	
Date Inspected	<u>10/20/23</u>	Amount Approved	<u>750⁰⁰</u>

Date of Report for Committee 11/1/2023

Item No.	Payee	Total \$ Amount	Legal	Well Reg	Date Received	Acres
FM-1	Joan Wachal	\$1,000.00	NW 16-17-2	G-026573	3/27/2023	33
FM-2	Joan Wachal	\$1,000.00	SW 9-17-2	A-007170	3/27/2023	55
FM-3	Joan Wachal	\$1,000.00	SW 9-17-2	G-026572	3/27/2023	50
FM-4	Jack Seckman	\$1,000.00	SW 9-17-3	G-032508	3/27/2023	153
FM-5	Jeffrey Wachal	\$1,000.00	SE 15-17-2	G-070977	3/27/2023	31
FM-6	Jeffrey Wachal	\$1,000.00	SE 15-17-2	G-026575	3/27/2023	30
FM-7	Betty Wachal	\$1,000.00	SE 22-17-2	G-026576	3/27/2023	155
FM-8	Betty Wachal	\$1,000.00	SW 22-17-2	G-000193	3/27/2023	2
FM-9	Betty Wachal	\$1,000.00	NW 22-17-2	G-031881	3/27/2023	80
FM-10	Betty Wachal	\$1,000.00	NW 22-17-2	G-000192	3/27/2023	15
FM-11	Betty Wachal	\$1,000.00	NE 22-17-2	G-033370	3/27/2023	160
FM-12	Midland Land LLC	\$1,000.00	NW SE 14-17-3	G-015214	3/27/2023	40
FM-13	Skytown Properties	\$1,000.00	SE SE 16-17-3	A-006004	3/27/2023	38
FM-15	Gary Baumert	\$1,000.00	NE NW 17-17-4	G-004227	3/27/2023	55
Pivot - 1	Gloria Schmid	\$10,000.00	N N SE 30-17-3	G-025853	3/3/2023	40
Pivot - 2	Gloria Schmid	\$10,000.00	NW SW 29-17-3	G-025853	3/3/2023	30
SDI-1	Skytown Properties	\$10,000.00	SE SE 16-17-3	A-006004	3/27/2023	38
SDI-2	Midland Land	\$10,000.00	NW SE 14-17-3	G-015214	3/27/2023	40
CC-1	Midland Land	\$605.00	SE SE 14-17-3	G-035874	3/27/2023	121
CC-2	Midland Land	\$395.00	SW SW 13-17-3	G-015215	3/27/2023	79
CC-3	Skytown	\$190.00	SE SE 16-17-3	A-006004	3/27/2023	38
SMS -1	Midland Land LLC	\$750.00	SW SW 13-17-3	G-015215	3/27/2023	79
SMS -2	Skytown Properties	\$750.00	SW SE 27-18-3	G-026807	3/27/2023	95
SMS -3	Skytown Properties	\$750.00	SW SE 16-17-3	A-006004	3/27/2023	38
SMS -4	Gloria Schmid	\$750.00	N N SE 30-17-3	G-015886	3/3/2023	40
FM-16	Matt Bailey	\$1,000.00	SW 32-18-3	G-001414	4/17/2023	124
FM-17	Melvin Bailey	\$1,000.00	N SE 18-17-4	G-149446	4/17/2023	70
FM-18	Melvin Bailey	\$1,000.00	NE SW 18-17-3	G-046977	4/17/2023	42
FM-19	Melvin Bailey	\$1,000.00	SW 8-17-3	G-035871	4/17/2023	149
FM-20	Melvin Bailey	\$1,000.00	SW 8-17-3	A-006866	4/17/2023	152
FM-21	Melvin Bailey	\$1,000.00	SW 8-17-3	G-046365	4/17/2023	149
FM-22	Melvin Bailey	\$1,000.00	NE NE 7-17-3	G-035872	4/17/2023	10
FM-23	Fred Otradovsky	\$1,000.00	SW SW 13-17-3	G-037344	4/17/2023	10
FM-24	Fred Otradovsky	\$1,000.00	SW SW 13-17-3	G-007890	4/17/2023	181
FM-25	Nathan Oehlrich	\$1,000.00	NE 23-17-2	G-071586	4/17/2023	120
FM-26	Arnold Oehlrich	\$1,000.00	NW SW 20-17-2	G-059554	4/17/2023	105
FM-27	Arnold Oehlrich	\$1,000.00	SW SE 23-17-2	G-117820	4/17/2023	80
FM-28	Erin Peterson	\$1,000.00	NE NE 22-17-3	G-057511	4/17/2023	65
FM-29	Erin Peterson	\$1,000.00	NW NW 17-17-4	G-016935	4/17/2023	82
FM-30	Erin Peterson	\$1,000.00	S SW 15-17-3	G-016293	4/17/2023	65
FM-31	RDC Farms	\$1,000.00	SW SE 17-17-3	G-048604	4/21/2023	153
FM-32	RDC Farms	\$1,000.00	SE SW 17-17-3	G-048469	4/21/2023	153
FM-33	RDC Farms	\$1,000.00	SW SE 17-17-3	G-019628	4/21/2023	153
FM-34	RDC Farms	\$1,000.00	NW SW 16-17-3	G-063557	4/21/2023	145

FM-35	RDC Farms	\$1,000.00	NW SE 16-17-3	G-062813	4/21/2023	145
FM-36	RDC Farms	\$1,000.00	SW SE 16-17-3	G-063558	4/21/2023	40
FM-37	RDC Farms	\$1,000.00	SW NW 16-17-3	A-007914	4/21/2023	145
FM-38	RDC Farms	\$1,000.00	SW NE 16-17-3	G-065569	4/21/2023	36
FM-39	RDC Farms	\$1,000.00	NE NE 18-17-3	G-072039	4/21/2023	70
FM-40	RDC Farms	\$1,000.00	NW NE 18-17-3	G-048600	4/21/2023	70
FM-41	RDC Farms	\$1,000.00	SE NE 18-17-3	G-048605	4/21/2023	135
FM-42	RDC Farms	\$1,000.00	NW NW 18-17-3	G-048601	4/21/2023	70
FM-43	RDC Farms	\$1,000.00	NW SE 18-17-3	G-048602	4/21/2023	41
FM-44	Jerold Kracl	\$1,000.00	NE NE 17-17-4	G-062833	4/24/2023	48
FM-45	Kracl Implement (Jerold)	\$1,000.00	SW SW 7-17-3	G-049230	4/24/2023	10
FM-46	Kracl Implement (Jerold)	\$1,000.00	NE SW 7-17-3	G-113504	4/24/2023	100
FM-47	Kracl Implement (Jerold)	\$1,000.00	NW NW 17-17-3	G-035196	4/24/2023	79
FM-48	Gene Novak	\$1,000.00	SW SE 33-18-3	G-001739	5/1/2023	160
FM-49	Richard Wolta	\$1,000.00	NW SE 27-17-2	G-111102	5/3/2023	80
FM-50	Richard Wolta	\$1,000.00	SW SW 23-17-2	G-026295R	5/3/2023	150
FM-51	Richard Wolta	\$1,000.00	SW SW 23-17-2	G-000104	5/3/2023	10
FM-52	Kabapada LLC	\$1,000.00	SE NE 20-17-2	A-007240	5/3/2023	40
FM-53	Craig Kluck	\$1,000.00	SE NW 30-17-3	G-036092	5/30/2023	45
FM-54	Craig Kluck	\$1,000.00	NW NE 30-17-3	G-001885	5/30/2023	60
FM-55	Craig Kluck	\$1,000.00	SW NE 30-17-3	G-043673	5/30/2023	50
FM-56	Joan Wachal	\$1,000.00	SW SW 15-17-2	G-021724R	5/30/2023	60
FM-57	Joan Wachal	\$1,000.00	SW NW 14-17-5	G-064866	8/7/2023	40
FM-58	Allen Svatora	\$1,000.00	SW NW 35-18-2	G-001238B	8/21/2023	114
FM-59	Allen Svatora	\$1,000.00	SE SW 6-17-3	G-110796	8/21/2023	75
FM-60	Dennis Waak	\$1,000.00	NW NW 32-18-3	G-066579	8/25/2023	160
FM-61	Brad Steffel	\$1,000.00	SE SW 31-18-3	G-001439	8/25/2023	160
FM-62	Todd Bailey	\$1,000.00	SE SE 36-18-2	G-134870	8/25/2023	160
FM-63	Todd Bailey	\$1,000.00	NW NW 1-17-2	G-063339	8/25/2023	80
FM-64	Marlene H Svoboda	\$1,000.00	SW NW 18-17-2	G-057423,	9/1/2023	40
FM-65	Colleen Wachal	\$1,000.00	SE NE 24-17-2	G-024951	9/1/2023	49
FM-66	Colleen Wachal	\$1,000.00	NE NE 25-17-2	G-073105	9/1/2023	49
FM-67	Connie Wachal	\$1,000.00	NE NW 13-17-2	G-067511	9/1/2023	50
FM-68	Connie Wachal	\$1,000.00	SW NE 13-17-2	G-088963	9/1/2023	60
FM-69	Jeremy Vanicek	\$1,000.00	NW SW 12-17-2	G-005343	9/1/2023	115

Total \$112,190.00

Pivot

Pivot

SDI

SDI

Rye

Rye

Rye

Acre Edge Agronomics

Acre Edge Agronomics

Acre Edge Agronomics

**AMENDMENT OF
LOWER PLATTE RIVER CONSORTIUM
INTERLOCAL COOPERATION AGREEMENT**

This Amendment of the Lower Platte River Consortium Interlocal Cooperation Agreement (Amendment) is entered into by and between the Nebraska Department of Natural Resources (Department); Lower Platte South Natural Resources District (LPSNRD); Lower Platte North Natural Resources District (LPNNRD); Papio-Missouri River Natural Resources District (PMRNRD); Lincoln Water System (LWS); and Metropolitan Utilities District (MUD); all of which are an agencies or political subdivisions of the State of Nebraska (collectively Parties).

The Parties agree to extend the Agreement for an additional period of one (1) year from the final execution date of the original Agreement, to end on December 4, 2024.

The Agreement shall remain in full force and effect and operate under the same terms and conditions as provided therein, except as otherwise provided in writing in this Amendment.

IN WITNESS WHEREOF, the Parties have signed and executed this Amendment on the dates shown next to their respective signatures.

NEBRASKA DEPARTMENT OF NATURAL RESOURCES

BY: _____ DATE: _____

LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT

BY: _____ DATE: _____

LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

BY: _____ DATE: _____

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT

BY: _____ DATE: _____

LINCOLN WATER SYSTEM

BY: _____ DATE: _____

METROPOLITAN UTILITIES DISTRICT

BY: _____ DATE: _____



Quote – Q-115854

In-Situ, Inc.
 221 E. Lincoln Avenue
 Fort Collins, CO 80524
 U.S.A.

Tel: (800) 446-7488
 Fax: (970) 498-1598
 Email: sales@in-situ.com
 Web: www.in-situ.com

Issued By: Stephane Mary
 Date: October 31, 2023
 Quote Valid for 30 days

Sales Manager Stephane Mary	Customer ID C004961	Payment Terms NET 30 DAYS	Shipping Method FedEx Ground	INCO Terms	Final Destination United States Nebraska
---------------------------------------	-------------------------------	-------------------------------------	--	-------------------	---

Quote To: Lower Platte North NRD P.O. BOX 126 Wahoo, Nebraska 68066 United States
Attn: Russell Oaklund roaklund@lpnrd.org 402-443-4675

Ship To: Lower Platte North NRD 511 COMMERCIAL PARK ROAD WAHOO, Nebraska 68066 United States
Comments:

Equipment								
Line	Product Description	Part Number	Unit of Sale	Qty.	Unit List Price	Total List Price	Disc.	Customer Total Price
1.	Level TROLL 500, Level Sensor Range - 70m, 231 ft (100 Psig)	0089030	Each	1	\$1,295.00	\$1,295.00	20.00%	\$1,036.00
Subtotal:								\$1,036.00

Quote Total		
<p><i>Tax is not normally quoted due to State & local variability. If you need to have Tax included in this quotation, please contact us.</i></p> <p><i>If your organization is a tax-exempt entity, please email or fax a copy of your tax-exempt certificate to taxcerts@in-situ.com or fax to (970) 498-1598.</i></p> <p><i>Tax rates will be based on delivery address of the order.</i></p>		
		Sales Tax: \$0.00
<p><i>For further information regarding the Warranty or Terms and Conditions, please refer to our website at http://in-situ.com/terms-conditions/</i></p> <p><i>All quoted product & service prices are in U.S. Dollars unless specifically noted otherwise.</i></p>		
		Shipping: \$91.00
Total Amount (Excludes Optional Items):		USD \$1,127.00



In-Situ, Inc.
221 E. Lincoln Avenue
Fort Collins, CO 80524
U.S.A.

Tel: (800) 446-7488
Fax: (970) 498-1598
Email: sales@in-situ.com
Web: www.in-situ.com

Quote – Q-115854

Issued By: Stephane Mary
Date: October 31, 2023
Quote Valid for 30 days

Managing your data has never been this easy!

Our intuitive [VuSitu Mobile App](#) allows you to view data from the field on your smartphone or tablet. For long-term or remote sites, integrate In-Situ instruments with our [wireless telemetry systems](#) and cloud-based [HydroVu Data Services](#) for real-time, decision-quality data. Ask your sales rep for more information.

