

Regular Board of Directors Meeting
Monday, September 10, 2018 6:00 PM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. Call to Order

NOTE: The agenda is on file at the LPNNRD office and may be changed up to 24 hours prior to the meeting as scheduled.

1.A. Meeting Notice

1.B. Inform Public on Location of Copy of "Open Meeting Act"

1.C. Pledge of Allegiance

2. Roll Call

2.A. Introductions

3. Approval of Agenda

Are there any additions or corrections to the agenda?

4. Comments - Advisors/Guests

4.A. Guest Comments

4.B. NRCS Report

4.C. NARD Report

4.D. NRC Report

4.E. Managers Report

4.F. Education Program

5. Approval of Minutes

Are there any additions or corrections to the Minutes? If not they will be approved on the consent agenda.

6. Report of Standing Committees

6.A. Executive Committee - Action as Required

6.A.1. UNFINISHED BUSINESS

6.A.1.a. Off Site Water Table Concerns Near Sand Creek

No lawsuit has been filed as of yet.

6.A.1.b. Murren Lawsuit

Nothing has been filed since the Murren case was dismissed the last time in federal court. Jovan would consider the matter as closed unless we are told otherwise.

6.A.2. MEETINGS

6.A.2.a. Pending

6.A.2.a.1. NARD Fall Conference

Attached find Directors and Staff that registered to attend the NARD Fall Conference, September 23-25 in Kearney.

6.A.2.a.2. UNL Great Plains Regional Water Symposium

The Nebraska Water Center will host a nine-state regional water symposium, to look at shared challenges and opportunities. The Symposium will be held at Nebraska Innovation Campus in Lincoln, October 24-26. See attachment for agenda details. Please let Breunig know if you are interested in attending.

6.A.2.b. Reports

Attached Water Strategies Monthly Update.

6.A.3. MANAGEMENT ITEMS

6.A.3.a. Directors Absence

Attached find Director Seier and Hilger Excuse of Absence from the July Board Meeting and Directors Olson, Meduna, Sobota and Sabatka from the August Board Meeting.

6.A.3.b. Monthly Education Program

6.A.3.c. NARD Resolutions

6.A.3.d. November Board Meeting

We normally have our November Board Meeting in Newman Grove to accommodate the Newman Grove Shell Creek Watershed Group. Director Seier is suggesting the following schedule.

3:15 p.m. Presentation from Shell Creek Group

3:45 pm Start Board Meeting
6:00 pm Eat Dinner and everyone can head home

6.A.3.e. Lake Wanahoo Education/Recreation Building

Final design plans were received for the building and contractors have been contacted to gather bids for the concrete work. Bids for erection, plumbing, geothermal heating/air, solar and electrical will be the next step in our process. It is our intention to have the building enclosed by winter and completed by April of 2019. A potential motion to approve the concrete bid may be needed at Board Meeting.

6.A.3.f. Lake Wanahoo NRD Recreation Area

I has been in contact with Jim Swensen with Nebraska Game and Parks Commission and Mr. Swensen has assured he will be available to assist us in creating a smooth transition of park management. A draft version of "Talking Points" and "Media Release" items is attached. This will serve as a road map to help both the Game and Parks and LPNNRD stay on the same page when answering questions regarding the change in park management.

Bret and I met with Sheriff Kevin Stukenholtz regarding the transition. He brought up a couple concerns he has (security, alcohol) and has assured us he and his department will work with us any way they can to help us maintain the quality park our patrons have come to expect.

We will be meeting in the near future with the incoming County Attorney to discuss issues regarding enforcement and/or prosecution of our park rules and regulations.

I met with Wahoo Fire and Rescue on August 15 to discuss the operation of our gate system at Lake Wanahoo and inform them of our park management plans. We will continue communications with the department as it relates to emergency services.

I would like discussion in regards to our recommended park permit price structure in order for us to begin informing the public of this new requirement effective January 1, 2019.

6.A.3.g. Executive Committee September 27

The Projects Committee is anticipating conducting interviews for Engineering Services and Cultural Resources Services on Wahoo Creek Thursday, September 27th after Projects Committee. It is suggested to have Executive Committee at 8:00 a.m. and Projects Committee starting at 9:30 a.m. with interviews to follow Projects Committee.

6.A.4. EQUIPMENT

6.A.5. PERSONNEL

6.A.5.a. Operation and Maintenance Technician

We have received 10 resumes for the Operation and Maintenance position. Interviews will be conducted after the closing date of September 4th. It is our intention to have an individual selected by the end of the week with a potential motion needed at Board Meeting to ratify the hiring of the Operation and Maintenance Technician candidate.

6.A.6. FINANCE

6.A.6.a. Approval of Financial Reports

Approval of the Financial Statements will take place after adjusting entries are received from the Audit Firm. No action needed.

Kyle Overturf will be available for Conference call on September 27th to go over the Annual Audit with the Executive and will present the Final Audit to the full Board on October 8th

6.A.6.b. Approval of Managers Time and Expense Sheets

6.A.6.c. Accounts over 90 Days

6.A.6.d. Budget and Set Property Tax Rate

Valuations have been received from our seven counties with a summary table attached. At 5:00 p.m. on September 10 the LPNNRD Tax Levy Hearing will be held. Last month the FY19 Budget was approved with the property tax rate to be set in September. A motion will be needed at Board Meeting to set the property tax rate.

6.B. Education, Operations & Rural Water Systems Committee - Action as Required

6.B.1. UNFINISHED BUSINESS

There is nothing to consider.

6.B.2. WILD NE/CREP REPORT

Nothing to report.

6.B.3. OPERATION & MAINTENANCE & OTHER ITEMS

O & M staff started our shredding circuit at Lake Wanahoo, we are now at Rawhide Ditch. We continue to cut volunteer trees. Spray Sericea Lespedeza on the Wanahoo dam and Right of Way areas. Did numerous maintenance items on our vehicles.

6.B.3.a. Wanahoo SRA

The recreation area continues to be very popular. We have added gravel and rock to the roads and will have the roads graded before the Labor Day weekend.

The local Ducks Unlimited Chapter is adding a third duck blind which will be 200 yards north of the break water on the west side of the lake. This is Area 6 in the Path Program which is a Youth Mentor Hunting Program. Our agreement with DU will be amended.

6.B.3.b. Wanahoo Dam

Olssons Associates has found that Papio-Missouri NRD has two or three 8 x 10 box culverts upstream of Zorinski Lake in which a local company has sealed the joints. A time will be set in the near future to tour this site and meet with the contractor who sealed the joints. They have mentioned that the compound has lasted up to 10 years.

6.B.3.c. Fremont 205 Study

The District has not heard from the Corps of Engineers regarding the Non-structural study.

6.B.3.d. Seven Upstream Dam Crediting w/ COE

Heimann has been working with the Corps of Engineers Real Estate Dept. for the past year giving them information regarding Easements, Land Purchases, etc. The Corps has said they have all the information needed for all tracts of land. We have cut the deficit from around \$825,360 to \$220,000.

There is more crediting to be finalize regarding construction expenses.

6.B.3.e. Clear Creek Levee

The Corps of Engineers held an O & M inspection on the Clear Creek Levee on Tuesday, August 28. Four representatives of Clear Creek Dike & Drainage Board and four from the Corps of Engineers were present along with Heimann.

Heimann is organizing for a 1 mile segment of the Clear Creek Levee to be aerial sprayed by the helicopter that sprays Phragmites. The Corps recommends that woody vegetation be taken care of. This same segment was sprayed aerially in 2015. Clear Creek D & D is responsible for the O & M of this levee.

6.B.3.f. Grass Drill Revenue

We are waiting on Schuyler Co-op to report the grass drill revenue for the first half of the year.

6.B.3.g. Czechland Camping

To date the revenue from RV camping at Czechland is \$8,087.

6.B.4. ROCK AND JETTY

Nothing to report to date.

6.B.5. INFORMATION AND EDUCATION

6.B.5.a. Information

6.B.5.a.1. Radio & eAds

The current KTIC radio ad and Wahoo Newspaper eAd promotes the deadlines for variance requests to expand irrigated acres. The deadline is September 15th. The ads beginning September 16 will promote the recreation areas and will continue through October 31.

6.B.5.a.2. Viaduct

The 2018 summer edition of the Viaduct has been distributed through area newspapers in the district. These publications include: Fremont Tribune/Shopper, David City Banner Press, Schuyler Sun, Columbus Telegram/Area Choice, Albion News, Newman Grove Reporter, Humphrey Democrat, Wahoo Newspaper, North Bend Eagle, and the Ashland Gazette.

6.B.5.a.3. NARD Fall Conference

The Lower Platte North NRD will be participating in 2 sessions during the NARD Fall Conference. On Monday, September 24th at 9:30 am, there will be a panel discussion on the Shell Creek Watershed Improvement Group during the opening general session of the conference. At 3:00 pm during a breakout session, LPNNRD will present with various other NRDs on "connecting with the public in impressive new ways" with the use of promotional videos.

There will also be 2 very exciting awards presented. Don Kavan will receive the "NRD Director of the Year" award during the luncheon at 12:00 pm on Monday. Mark Seier and the Newman Grove High School Students with the Shell Creek Watershed Monitoring Program will receive the "Master Conservationist Youth Award" from the Omaha World Herald during the banquet on Monday evening.

6.B.5.b. Education

6.B.5.b.1. September Education Programs

- Thursday, September 6th: LPNNRD staff (Heimann, Dokulil, Elliott, Brueggemann, Andersen, Oaklund, Poole, & Benal) will be presenting stations during an outdoor education day with Fremont Middle School. Sessions will include Lake Ecosystems, Tree Planting, and Drones/GPS. Approximately 350 students will be attending, and each station will present 12 sessions throughout the day.
- Monday, September 17th: TePoel will present Wildlife CSI and Oh Deer to St. John's (Weston) 1st grade class.
- Tuesday, September 18th: TePoel and Sam Kolterman (Wahoo CEO Program) will present a tree ring activity to Wahoo Public School's Kindergarten classes.
- Wednesday, September 19th: TePoel will present Wildlife CSI during the Wonderful World of Water in Pierce, NE. This event is coordinated by the Lower Elkhorn & Upper Elkhorn NRDs.

- Thursday, September 20th: TePoel and Sam Kolterman (Wahoo CEO Program) will present a tree ring activity to the remaining Wahoo Public School's Kindergarten classes.
- Thursday, September 27th: TePoel has been asked to present during District EDGE FFA conference.
- Friday, September 28th: TePoel will present a pollinator activity to North Bend Public School's 4th grade & 5th grade classes.

6.B.6. RURAL WATER SYSTEMS

6.B.6.a. Colon System

The RWD was notified of two leaks in Colon; the first was an abandoned (unmetered) service to the village's shed, Elliott, Doukulil and Benal repaired 8/24. The second leak is a fire hydrant on 2nd Pine, it appears that the valve seal is worn. RWD will evaluate the most feasible and economic repair.

RWD was notified that a portion of the Coufal service hookup (installed October '17) was placed outside the utility easement. RWD will address this situation by splicing in a new service line that falls completely within the easement.

Testing and billing completed as normal.

6.B.6.b. Bruno System

During a One Call marking for a natural gas pipeline install Elliott discovered that short portions of the Bruno RW line are only ~3' below ground. The depth of line was determined by using the utility line locator, it was also brought to Elliott's attention by pipeline contractor that the line looks to be rather shallow under the creek (west of landfill); they located line and uncovered it at ~3' below creek bed.

Elliott contacted Butler county road superintendent, Jim Rerucha, and will meet with him ASAP.

Bills and testing completed as normal.

6.B.6.c. Other

6.C. Water Committee - Action as Required

6.C.1. UNFINISHED BUSINESS

6.C.2. REGULATORY

6.C.3. GROUND WATER MANAGEMENT AREA

6.C.3.a. Variance Request in the Hydrologically Connected Area (Limited Development Area)

Deadline is September 15 for variance requests.

6.C.3.b. Variance Requests in the Non-Hydrologically Connected Area (Normal Development Area)

The District has four applications for new acres in the non-hydrologically connected area (see table below). The Board has the authority to approve up to 70 acre feet of new development in this area.

App Number	Applicant	Type	Location	Subarea	Acres	Ranking Score	Acre Feet	Comments
LPN-NDV-018-0048	Kyle Osmera	Expansion	NW 1/4 15-14-5E	Weston	23.0	381.2	5.18	
LPN-NDV-018-0047	Anthony Meister	Expansion	NW 1/4 15-15-1E	David City	67	370	15.08	57% Class 6+ Non HEL
LPN-NDV-018-0046	Randy Fendrich	New	SW 1/4&NW1/4 17-15-3E	David City	140	318.6	31.5	
LPN-NDV-013-0015	Lawrence Hynek	New	NW1/4&NE1/4 3-16-5E	Prague	150	275	33.75	Previously Denied Until AEM Completion
				Totals=	380		85.51	Up to 70 Acre Feet

- Area B - Kyle Osmera
- Area C - Anthony Meister
- Area D - Randy Fendrich
- Area A - Lawrence Hynek

Committee Discussion: The variance for Randy Fendrich falls within David City Wellhead Protection Area. The Wellhead Protection Ordinance requires approval by David City.

6.C.3.c. Approved Well Permits

Wells Permits Approved: 3

Landowner	Number of Wells	Number of New Irrigated Acres	Type of Well	County	Subarea
Don Kavan	1	85	Irrigation	Saunders	Morse Bluff
Jerald Kracl	1	0	Irrigation (Replacement)	Colfax	Schuyler
Doris Moser Credit Trust	1	0	Irrigation (Replacment)	Dodge	North Bend

The total number of approved permits for 2018 is 15

Location of Approved Well Permits for 2018: Correct as of 6/27/2018

County	Irrigation - New	Irrigation - Replacement	Stock	Commercial	Municipal	Other	Total
Butler	1	0	1	0	0	0	2
Colfax	0	1	0	0	0	0	1
Dodge	1	1	0	0	0	0	2
Boone	1	0	0	0	0	0	1
Madison	2	0	0	0	0	0	2
Platte	2	1	1	0	0	0	4
Saunders	2	3	0	0	0	1	6
Total	9	6	2	0	0	1	18

6.C.3.d. Irrigation Letter Request

Staff received a call for a site that is going up for auction this fall that is presently dry

land. This tract is in the HCA area and would be eligible for a variance in the Fall of 2019. They would like a letter from the NRD saying that the parcel would be eligible for an irrigation well and allowed to be irrigated. Staff gets calls like this a couple times a year. Should staff go ahead and send a letter saying that at this time it is OK or not OK? Who should sign the letter?

The Committee felt that a letter should not be sent.

6.C.3.e. SQS#2 - UNL Collaboration

In early April, Andersen and Oaklund did field recon of SQS #2 with UNL to see if the area would be conducive for a master's research thesis. Following permission from various landowners staff has been installing data logger shelter over gravel pack tube at selected irrigation wells in cooperation with UNL. For her master's thesis Jackie Polashek, a UNL student, is compiling water level data for comparison/integration with the existing AEM flight data. Her advisor at UNL, Jesse Korus, grew up in the Lindsay area. Staff has installed data logger at six sites. UNL will purchase ten Level Troll data loggers and cables to be used at additional sites in her research study area. Upon completion of her master's the equipment will then become LPNNRD property. As the water level data sets are collected and evaluated, one or more could then be candidates for remote sensing.

6.C.3.f. LPNNRD Certification

One online test request has been received in August. Producer passed test and a certification card was mailed.

Cert #	Cert date	Name	Re-cert	Comments
7133	8/6/2018	John Dietrich	new	

6.C.3.g. Cost Share Programs

As producers are beginning to use remote soil moisture sensors for irrigation scheduling, does the Board want to consider this an option for cost-sharing? At this time there is \$10,000 dollars budgeted for cost-sharing. The District already cost-share on watermark sensors and this would be another option. The average cost for this equipment is about \$1600 without installation. The District could set aside \$4000 of the \$10,000 for a 50/50 cost-share if this is something the District wants to promote. The last couple of years only couple of producers have asked for cost-share on the Watermark sensors.

The Committee directed staff to proceed with the remote sensing cost-share and set up a program for ranking and taking applications for the Committee to review before final approval.

6.C.3.g.1. Irrigation Well Sample Kits

313 irrigation kits have been mailed out so far this year. Precipitation slowed the requests as producers have waited to irrigate. 220 samples have been received (17 so far this week). The results for 160 samples have been received from the lab and these results were mailed to producers.

6.C.3.h. Bellwood Phase 2 Area

2018 is the sixteenth year for this Phase 2 Area.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen greater than 10 ppm
2004	0 to 25 ppm	46.3% (44 of 95)	8.4% (8 of 95)	45.3% (43 of 95)
2005	0 to 25 ppm	47% (44 of 94)	15% (14 of 94)	38% (36 of 94)
2006	0 to 24 ppm	41% (29 of 71)	14% (10 of 71)	45% (32 of 71)
2007	0 to 31 ppm	48% (48 of 100)	9% (9 of 100)	43% (43 of 100)
2008	0 to 28 ppm	53.75% (43 of 80)	7.5% (6 of 80)	38.75% (31 of 80)
2009	0 to 22 ppm	45.5% (41 of 90)	15.5% (14 of 90)	39% (35 of 90)
2010	0 to 35.7 ppm	48.65% (54 of 111)	11.71% (13 of 111)	39.64% (44 of 111)
2011	0 to 26.6 ppm	51% (56 of 110)	6% (7 of 110)	43% (47 of 110)
2012	0 to 28.9 ppm	57% (61 of 107)	9% (10 of 107)	34% (36 of 107)
2013	0 to 25.8 ppm	50% (53 of 107)	9% (10 of 107)	41% (44 of 107)
2014	0 to 22.3 ppm	51% (55 of 108)	13% (14 of 108)	36% (39 of 108)
2015	0 to 32.3 ppm	43% (31 of 72)	8% (6 of 72)	49% (35 of 72)
2016	0 to 35.1 ppm	34% (25 of 74)	11% (8 of 74)	55% (41 of 74)
2017	0 to 19.9 ppm	33% (16 of 49)	12% (6 of 49)	55% (27 of 49)
2018	0.14 to 21.3 ppm	30% (6 of 20)	20% (4 of 20)	50% (10 of 20)

6.C.3.i. Richland - Schuyler Phase 2 Area North Phase 2

2018 is the third year of this Phase 2 Area. There are 45 registered active irrigation wells in the ten sections of this new area.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen greater than 10 ppm
2016	1.47 to 41.8 ppm	29% (10 of 34)	9% (3 of 34)	62% (21 of 34)
2017	2.44 to 23.6 ppm	19% (4 of 21)	(0 of 21)	81% (17 of 21)

2018	2.89 to 21.3 ppm	36% (4 of 11)	9% (1 of 11)	55% (6 of 11)
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6.C.3.j. Richland - Schuyler Phase 3 Area

2018 is the third 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.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen greater than 10 ppm
2004	0 to 47 ppm	30% (42 of 139)	10% (14 of 139)	60% (83 of 139)
2005	0 to 120 ppm	31.3% (74 of 236)	10.2% (24 of 236)	58.5% (138 of 236)
2006	0 to 53 ppm	28% (50 of 181)	14% (26 of 181)	58% (105 of 181)
2007	0 to 99 ppm	32% (75 of 231)	10% (22 of 231)	58% (134 of 227)
2008	0 to 46 ppm	28% (53 of 190)	12% (23 of 190)	60% (114 of 190)
2009	0 to 57 ppm	33% (72 of 216)	6% (13 of 216)	61% (131 of 216)
2010	0 to 57.5 ppm	31% (70 of 229)	7% (15 of 229)	62% (142 of 229)
2011	0 to 65.8 ppm	28% (67 of 241)	9% (21 of 241)	63% (153 of 241)
2012	0 to 52.6 ppm	29% (70 of 241)	9% (21 of 241)	62% (150 of 241)
2013	0 to 94.0 ppm	25% (63 of 252)	9% (23 of 252)	66% (166 of 252)
2014	0 to 101.0 ppm	27% (68 of 251)	9% (22 of 251)	64% (161 of 251)
2015	0 to 53.3 ppm	23% (55 of 238)	12% (29 of 238)	65% (154 of 238)
2016	0 to 50.5 ppm	25% (58 of 228)	10% (22 of 228)	65% (148 of 228)
2017	0 to 53.4 ppm	27.15% (38 of 140)	6.42% (9 of 140)	66.43% (93 of 140)
2018	0 to 56.9 ppm	26.61% (33 of 124)	5.65% (7 of 124)	67.74% (84 of 124)

6.C.3.k. NET Grant Update

Staff will be submitting a NET Grant this week.

The Committee wanted to include cost-sharing for remote soil moisture sensors in the grant. As the grant is only for the phase areas these would be the only producers eligible.

6.C.4. CHEMIGATION

For 2018 we have 619 renewals and 90 new permit applications for a current total of 709. Inspections for 209 renewal and 87 new permits have been completed. The breakdown by County for the Total Number of Renewals within the LPNRRD.

County	Number of Renewals
Boone	55
Butler	89
Colfax	42
Dodge	96
Madison	7
Platte	102
Saunders	228

The breakdown by county of the number of renewal inspections completed.

County	Number of Renewal Inspections Completed
Boone	11
Butler	20
Colfax	22
Dodge	51
Madison	6
Platte	44
Saunders	55

The breakdown, by county for the 90 new chemigation permit applications, are listed below:

County	New Chemigation Applications
Boone	3
Butler	21
Colfax	17
Dodge	22
Madison	
Platte	8
Saunders	16

6.C.5. GROUND WATER PROGRAMS

6.C.5.a. DECOMMISSIONED WELL PROGRAM

6.C.5.a.1. Well Estimates

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

Well Owner	Type of Well	Cost Share Estimate	County
Beebe Production Enterprises LLC	Irrigation	\$327.23	Dodge
Beebe Seed Farms	Irrigation	\$376.88	Dodge

6.C.5.a.2. Plugged Wells

wells have been plugged, reviewed, and ready for cost share payment approval this month.

Well Owner	Type of Well	Cost Share Estimate	County

6.C.5.b. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

6.C.5.b.1. Platte and Elkhorn River Valley Integrated Water Monitoring

The LPN and PMRNRD contracted with the USGS to conduct a water flow study between the Platte and Elkhorn Rivers. A draft final report for the study should be available near the end of the year. The final invoice is attached for payment.

6.C.5.c. DAKOTA MONITORING WELLS

Staff has collected water samples from the three recently drilled Dakota wells. Since these samples were collected from the screen length at the bottom of these wells (>800') weighted hydrosleeves were put into each well and left overnight. Staff followed this recommended procedure at each of the wells. The three samples were collected the week of August 13-17. Samples were taken to Midwest Lab in Omaha. Results have not yet been received.

6.C.5.d. GROUND WATER ENERGY LEVELS

Staff took summer measurements on 56 wells in the WANN Basin on August 21. The wells averaged 0.81 ft lower compared to 2017 summer readings and down 2 feet compared to 2018 spring readings.

6.C.5.e. STATEWIDE NETWORK SAMPLING

Adequate precipitation has allowed some producers to not have to run their well in 2018. That, coupled with hail events in Platte County, has reduced the number of samples collected this year. So far 33 of the 53 sites have had nitrate samples collected: 21 of 33 were less than 8 ppm (64%); 4 of 33 were between 8 and 10 ppm (12%); 8 of 33 were greater than 10 ppm (24%). Two producers called earlier this week and indicated that they may irrigate yet this week.

6.C.6. SURFACE WATER PROGRAMS

6.C.6.a. USGS STREAM FLOW GAUGING SITES

An invoice is attached for the NRD yearly payment to USGS for 2 streamgages sites and one real-time groundwater monitoring site.

6.C.6.b. STATE LAKES, FOR THE WEEK OF

Lakes being tested in the Lower Platte North are not on the list.

Week of August 20th, 2018

This week's beach Bacteria and Harmful Algal Bloom results are now posted on the NDEQ web page (<http://deg.ne.gov>).

No lakes tested over 20 ppb this week!!!!!! Rockford needs to be below 20 ppb next week before being removed from the HEALTH ALERT list.

Long time readers of the BeachWatch Listserv will recall that rainfall has a tendency to pick up bacteria on its path into the lake. As a result we always see more beaches with high *E. coli* after rain events. So considering a good number of us sampled in a tsunami Monday the list of beaches with elevated *E. coli* readings is long. Use your best judgment if you plan on visiting one of those beaches this week/weekend.

You may have heard that Olive Creek Reservoir near Kramer suffered a very extensive fish kill last week. Our friends over Nebraska Game and Parks (NGPC) investigated and found the cause was due to what is often called a Summer Kill. Summer kills unfortunately are a fairly common occurrence in eutrophic lakes (lakes that have an excess of the nutrients, nitrogen and phosphorus) this time of a year. I could write out a large essay on why eutrophic lakes suffer from summer kills but I doubt I could improve on what NGPC's Daryl Bauer wrote for his Barbs and Backlashes Column. So I will refer

you to that: <http://magazine.outdoornebraska.gov/2018/08/summer-kill/> .

CAUTION: SPOILER ALERT... an overgrowth of algae caused the fish kill. To be specific blue green algae (aka Harmful Algae Bloom) caused this fish kill. Olive Creek Reservoir doesn't have a swimming beach and you can't water ski there but this shows that HABs not only can affect human health but also the ecosystem health of the lake that they inhabit.

ONE Lake will be on "Health Alert" this week. NDEQ in conjunction with numerous collaborators monitor public beaches and sample for microcystin, a toxin produced as a result of a Harmful Algal Bloom. A lake that exceeds 20 ppb of microcystin will be placed on "Health Alert". That lake will remain under "Health Alert" Status until such time that it has tested below 20 ppb for two continuous weeks.

If a lake is under a Health Alert, signs will be posted recommending people avoid full body contact activities such as swimming, wading, skiing, jet skiing, etc.

Lakes that tested high for *E. coli* bacteria this week are listed below. *E. coli* bacteria levels measured above 235 colonies/100 ml of sample are considered a higher risk for illness when swimming. Considering the more rapid changes in bacteria conditions, signs are not posted with these higher levels although we want people to be aware and use their own judgment on their use.

For further information about our BeachWatch Program, E.coli, HABs and the microcystin toxin please visit the links on our BeachWatch website. (<https://deg-iis.ne.gov/zs/bw/>).

6.C.7. OTHER

6.C.8. COMMENTS FROM THE PUBLIC

6.D. Projects Committee - Action as Required

6.D.1. UNFINISHED BUSINESS

There is no unfinished business to address.

6.D.2. SWCP

6.D.2.a. SWCP Application Approvals

JON GEHRING (Platte Co) - Diversion, WASCB w/ TO: \$12,500.00

6.D.2.b. SWCP Payments

18-B-1 - WILLIAM KOZISEK - TOT - \$10,000.00

6.D.2.c. SWCP Cancellations

None

6.D.2.d. Wahoo Creek Cost Share Approvals

None

6.D.3. WATERSHEDS

6.D.3.a. Shell Creek

6.D.3.a.1. Shell Creek Environmental Enhancement Plan Implementation Phase I (56-1586)

Last week, we submitted a Shell Creek 56-1586 grant reimbursement request No. 2 totaling \$77,003.35, as attached. After this reimbursement, we will have \$140,797.04 remaining in available grant funds for future projects in the Shell Creek Watershed. On August 13, 2018, the Board approved Change Order No. 2 to the Kramer Shell Creek Bank Stabilization Project Site 3 (Vavricek) for \$58,981. The Tom Sprunk Wetland/Stabilization Project is anticipated to be use around \$40,000 - \$50,000 of grant funding, but that project is not expected to be completed until next year. After those projects are complete, we will have an estimated \$30,000 - \$40,000 of Phase I grant funds remaining for new projects.

6.D.3.a.2. Kramer Shell Creek Bank Stabilization Project Update

On August 13, 2018, the Board approved Change Order No. 2 to Kohl Construction (attached) for completion of the Kramer Shell Creek Bank Stabilization Project Site 3 (Vavricek) for \$58,981. The work is scheduled to be started after Labor Day. The updated project plans are also attached.

6.D.3.a.3. SCWIG Panel Presentation at NARD

Members of our Shell Creek Watershed Improvement Group (SCWIG) advisory committee have agree to participate with a five member panel discussion at the NARD Fall Conference. The panel includes Directors Matt Bailey, John Hannah and Mark Sier. LPNNRD will cover the registration costs for the other two SCWIG panel members, Gene Wisenburg and Ralph Pieke.

6.D.3.a.4. Shell Creek Environmental Enhancement Plan Implementation Phase II Grant Applications

We have been working with SCWIG on submitting new grant applications to NDEQ and NET for more water quality projects in the Shell Creek Watershed. Chris Poole and and

Mountford met with Elbert Traylor, NDEQ on August 15, to outline a draft Project Plan to apply for an additional \$250,556 from NDEQ and another \$104,688 from NET. The grant application deadlines are September 4, 2018. If both grants were approved, an additional \$37,150 match from LPNDRD would be required. It is estimated that county contribution would be \$102,000.

The Shell Creek Improvement Group was planning to meet on August 22nd and have been asked for their recommendation for proceeding with applying for more grant funds from NDEQ and NET. Projects Committee discussion and a recommendation is requested.

6.D.3.b. Wahoo Creek Watershed

6.D.3.b.1. Wahoo Creek Dam Site Planning Update & FYRA Invoices

Attached is FYRA's August invoice (\$74,823.79) and work summary for work completed in the Wahoo Creek Watershed. This invoice and summary (for planning on eight additional dams) will also be reported at the August 30th Projects Committee meeting. Since this work is under a Board approved contract, we only report this information to the Board. As outlined in the summary, work completed so far is on schedule and on budget. After the above payment is made at the September 10th Board Meeting, there will be \$402,443.07 remaining under this \$574,900 contract. This contract work is being reimbursed 100% from NRCS.

We have recently asked FYRA to provide more detail on the billings which is shown in the attachments. FYRA also met with Directors Thompson and Birkel to discuss the billing process and suggest additional information to help show details of work accomplished.

6.D.3.b.2. Wahoo Creek Watershed Water Quality Plan Phase II

6.D.3.b.3. Wahoo Creek - Requests for Proposals for Engineering Services

The below e-mail and attachments were sent out to interested consulting firms and also advertised in area newspapers for Wahoo Creek Engineering services:

"The Lower Platte North Natural Resources District is requesting proposals for professional engineering services necessary to complete the currently funded design and construction phases of the Wahoo Creek Watershed Project which includes the permitting and final designs of eleven flood reduction structures and the construction observation of three (Sites 26a, 26b & 27) of the eleven flood reduction structures. Attached is a detailed RFP letter and project schedule. A map of the eleven structures and other pertinent information is available electronically on the WeTransfer site listed: <https://we.tl/DU5HYgDDtw> "

Proposals are due by 12:00 p.m., Friday, September 14, 2018. It is anticipated that a few members of the Projects Committee will be part of a review/selection committee Wednesday, September 19. . After the committee selects firm(s) for interviews, it is suggested to conduct those interviews following the September 27, 2018, Projects Committee Meeting. The Projects Meeting is planned begin at 10:00 a.m., with interviews starting that morning or early afternoon. After the interviews, we would then

meet with the top selected firm(s) to negotiate a contract(s) prior to the October 8, 2018, for possible Board approval. Committee discussion and input is requested.

6.D.3.b.4. Wahoo Creek Requests for Proposals (RFP) - Cultural Resources Investigations

We have also sent out RFP to qualified parties and also advertised in area newspapers for Cultural Investigation services on eight dam sites in the Wahoo Creek Watershed as attached.

Proposals are also due by 12:00 p.m., Friday, September 14, 2018, for this work. Projects Committee members may also wish to review these proposals prior to the September 27 Projects Committee. This RFP will be fairly straight forward for a much smaller contract amount, The selection committee will be reviewing RFPs for engineering services as discussed in 3.B.4 above, so of desired a review of cultural resources RFPs could occur on the same day. If the Committee desires, an alternative option would be for LPNNRD and NRCS cultural resource staff review Cultural Resource Investigation proposals and bring a recommendation to the September 27 Projects Committee Meeting. Discussion is requested.

6.D.4. LOWER PLATTE RIVER CORRIDOR ALLIANCE

Nothing new to report at this time.

6.D.5. EROSION AND SEDIMENT RULES AND REGULATIONS

6.D.6. OTHER

7. Additional Action Items

7.A. Land Judging Contest

The East Central Land Judging Contest is hosted by Lower Platte North NRD every other year with Lower Platte South. The last 4 times the Lower Platte South has hosted the event they have paid the registration costs for students. In 2016, Lower Platte North also paid the registration fees for students. This has been around \$600. Lower Platte North will host the 2018 contest on October 10th. Registration fees are \$2,50 per student and typically there are 200 registered students.

7.B. SWCP Payment

The following SWCP Payment request came in after Projects Committee:
Colfax County

18-C-1 - Randall Brabec - Grassed Waterway - \$744.99

7.C. Kramer Shell Creek Stabilization Project Payment

We received a \$2,709.82 invoice from Mainelli Wagner & Associates for engineering services

provided on the Kramer Shell Creek Bank Stabilization Project, Site 3. Per interlocal agreement, Colfax County agreed to contribute up to \$10,000 for Mainelli Wagner's Project design services for the Shell Creek Bank Stabilization Project change orders No. 1 & No. 2. . To date, Colfax county has contributed their \$10,000, so a Board Motion is needed to pay Mainelli Wagner \$2,709.82 as attached. This amount will be taken from LPNNRD banked grant fund for Shell Creek projects.

7.D. Request for Expansion of Irrigated Acres in SQS #2

John Dietrich Colfax County has 130 previously certified acres and will be adding 30 irrigated acres from Well G-164643. This well is located in SW¹/₄-NW¹/₄-5-19-2E.

8. Approval of Bills Pending

9. Consent Agenda Adoption

10. Comments from Directors/Guests

11. Meeting Establishment/Adjournment

NOTE: The agenda is on file at the LPNNRD office and may be changed up to 24 hours prior to the meeting as scheduled.