

Regular Board of Directors Meeting
Monday, October 13, 2014 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

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

6. Report of Standing Committees

6.A. Executive Committee - Action as Required

6.A.1. MEETINGS

6.A.1.a. Pending

6.A.1.a.1. GMDA Annual Winter Conference

The GMDA Winter Conference is scheduled for January 6-8, 2015 in Scottsdale, AZ. A copy of the agenda is attached.

6.A.1.a.2. November Board Meeting

We traditionally conduct our November Board in Newman Grove and have the High School Science Club give us an update on Shell Creek.

6.A.1.a.3. Lower Platte River Corridor Alliance Summit

Registration for the Lower Platte River Summit is now open. The Summit will be held on Tuesday, November 6th at Camp Carol Joy Holling near Ashland, NE. The theme of this year's Summit is "Urban Growth—Rural Resilience". Please let Breunig know if you are interested in attending.

6.A.1.b. Reports

Attached find Bob Heimann's written report from the ASDSO Dam Safety Conference held in San Diego, September 22-25, 2014.

6.A.2. MANAGEMENT ITEMS

6.A.2.a. Directors Absence

Attached find Excuse of Absence Requests from Directors Hilger, Birkel and Pollard from the September Board Meeting.

6.A.2.b. Bob Weaver

6.A.2.b.1. Monthly Conference Call and Update

The monthly Weaver conference call was held October 6.

6.A.2.b.2. Monthly Bill

6.A.2.c. Monthly Education Program

Mike Murren and Don Kavan will give a report on the Nebraska Water Tour.

6.A.2.d. CCEI Lawsuit

No new information or action this months.

6.A.2.e. Waters of the United States

Attached find comments from Don Blankenau on EPA's proposed definition of Waters of the United States. These comments were submitted on behalf of the Nebraska Groundwater Coalition, of which we are a member.

6.A.2.f. NARD Risk Management Pool - Rule Changes

Attached to the Executive Committee Minutes find a resolution passed by the NARD Risk Management Pool Association to "Maintain Grandfathered Status of the Health Insurance Plan." Due to the cost of losing our Grandfathered Status this resolution allows for the involuntary termination of any NRD from the pool which makes changes to their NRD which would cause the pool to lose it's current Grandfathered Status.

6.A.2.g. Accountability and Disclosure Commission Complaint

Scott Japp has filed a complaint with the Nebraska Accountability and Disclosure Commission. The complaint specifically names John Miyoshi, but alleges that the LPNNRD governing body failed to meet statutory requirements for certifying two directors. The accompanying document reports of two possible election frauds violations in Lower Platte North NRD in that Directors Gibney and McDermott do not live in the sub-district they represent. See attachments.

Board Chair Hilger directed Lausterer to send a response to the Commission which is attached.

6.A.2.h. Master Services Agreement with FYRA Engineering

Attached find a copy of a Master Services Agreement from FYRA Engineering. This agreement would allow the board to authorize engineering services for small scale items with just a letter agreement (no contract). If approved we may want to place a maximum limit on any single project.

Attached find a White Paper prepared by FYRA (at no cost to the NRD) on recent rainfalls and performance of Wanahoo Dam. This is an example of work that could be provided using this agreement.

6.A.2.i. Lake Wanahoo - Pre and Post Project Hydraulics

A public education effort is needed to explain and show how Wanahoo Dam operates at times of high runoff events. Attached is a proposal from FYRA Engineering that would put gather and create needed data and then create displays to show discharges and flooding before and after construction of Wanahoo Dam. Attached is a cost breakdown for the services.

6.A.2.j. HBE Audit Bill

HBE has submitted a bill \$10,025 for work completed on the annual audit as attached.

6.A.3. EQUIPMENT

6.A.4. PERSONNEL

6.A.5. FINANCE

6.A.5.a. Approval of Financial Reports

The June and July Financial Reports were distributed to all Directors.

6.A.5.b. Approval of Managers Time and Expense Sheets

6.A.5.c. Accounts over 90 Days

Attached find Accounts Receivable over 90 days which were reviewed by the Executive Committee.

6.A.5.d. Audit Report

HBE met with the Audit Sub-Committee on October 3rd immediately following the Executive Committee Meeting. The sub-committee ask Mike Almond to give a summary of the Audit at board meeting.

6.A.5.e. NRDF Payment

We are expecting to receive our quarterly payment from DNR during the month of October.

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

6.B.1. WILD NE/CREP REPORT

6.B.1.a. Wildlife & CREP Payments

Two CREP payments for Mohrman Farms, \$20.68 on 1.1 acres and \$90.90 on 5 acres for a total of \$111.58. These are the seventh payments of ten.

6.B.2. OPERATION & MAINTENANCE & OTHER ITEMS

6.B.2.a. O & M Crew

The O & M Crew spent some time clearing debris from dam principle spillways, finished shredding Rawhide Ditch and Clear Creek Levee, roadsides along Wanahoo and other Wanahoo areas, and an area at Sand/Duck Creek 6. Heimann attended the National Dam Safety Conference.

6.B.2.b. Conservation Tree Program

Bessey Nursery has increased their Conservation Tree prices from .59 to .63. The District usually follows suit with an increase. The last District increase was September 2010.

6.B.2.c. Fremont 205 Feasibility Study

The COE is requesting \$24,753 from the non-federal partners in transitioning the current 205 Feasibility Study to a General Investigations (GI) study. In this transition part of the

study the Corp's goal is to prepare for signing a GI study cost-share agreement in the Spring 2015 if Federal funding is provided.

The District will pay \$12,376.50, Fremont \$5,990.23, Dodge Co. \$5,371.40 and Inglewood \$1,014.87.

6.B.2.d. Wanahoo SRA

The haying of the last two fields by Chris Meduna is complete, except hauling bales. He will be billed for 227 acres at \$81/acre which comes to \$18,387.

Game & Parks staff have moved 60 trees with their tree spade. Their staff will be finished for the season starting October 1.

There is high water flow damage below the dam of Wanahoo with the displacement of rip-rap and soil. An estimate was obtained by M.E. Collins for the repair at \$14,820 which is probably estimated high.

6.B.2.e. Lake Wanahoo Interlocal Agreement

Staff has reviewed the Interlocal Agreement with Game and Parks Commission on the operation of Lake Wanahoo, revisions from both the NRD and Game and Parks have been made. See attached agreement.

6.B.3. ROCK AND JETTY

6.B.3.a. Rock & Jetty

There are no new applications or payment request.

6.B.4. EROSION & SEDIMENT RULES & REGULATIONS

6.B.5. INFORMATION AND EDUCATION

6.B.5.a. Information

6.B.5.a.1. KTIC Ads

This month we have been running ads on the Wanahoo road closure, Shell Creek meeting and the upcoming "SkyTEM" aquifer mapping helicopter flights.

6.B.5.a.2. Wahoo Newspaper eAds

This month we have been running ads on the Wanahoo road closure and the upcoming "SkyTEM" aquifer mapping helicopter flights.

6.B.5.a.3. Viaduct

The fall print edition of the Viaduct will be appearing in area papers this week and next. The electronic version will also be going out this week.

6.B.5.b. Education

6.B.5.b.1. David City HS Testing

Oaklund and Thompson visited a David City High School natural resources class to talk about water testing and let students use some of our testing equipment. Originally we were going to help students with testing at the pond in the David City Park but the weather was uncooperative; we may go back next spring to do this.

6.B.5.b.2. Land Judging

We will be hosting the East Central Lanyd Judging contest on October 8 in Butler County. Registrations are due this Friday. The contest will begin at 10 am and we will be doing the scoring at the auditorium in the David City Park.

6.B.5.c. Computer

6.B.5.c.1. Network Upgrades

To address the problems we experienced at the first board meeting using the eMeeting service, we have replaced our SonicWall router/firewall with a new WatchGuard model that has a faster processor and offers higher throughput speeds. We also upgraded our Internet connection to a dedicated point-to-point antenna and our speeds have consistently been running around 11 Mbps (around twice as fast as our previous top speed, and about 10 times faster than the speeds we were getting during the last board meeting).

We will also have a copy of the meeting agenda hosted on our local network so that it will still be accessible during the meeting even if we encounter Internet connection issues.

6.B.5.c.2. iOS 8 Update for iPads

Directors with iPads should see an update showing up on their iPad that will upgrade them to the new iOS 8 operating system.

When the update is available for your iPad, you'll see a red notification badge on the Settings icon. You can also check for the update manually by going into Settings and choosing "General", then "Software Update".
(see attachment).

To install the update:

1. plug the power cable into your iPad
2. Tap the Settings icon, then tap General, then tap Software Update.
3. Tap "Download and Install" on the Software Update screen.

4. A Terms & Condition window will pop up - tap "Agree" and the download will begin.

5. When the download is complete, you will be prompted to install the update. It should only take a few minutes to complete. Your iPad will restart during the process.

6.B.6. RURAL WATER SYSTEMS

6.B.6.a. David City/Bruno Rural Water

Coliform samples were taken on September 25th, samples passed.

Staff collected samples for testing of Trihalomethane and Haloacetic Acid. These are by-products from the breakdown of chlorine. Results for trihalomethane have shown levels well below the MCL. Results for the haloacetic acid have yet to be received.

With recent storms, some erosion has occurred along the trench of the pipeline, staff worked with Butler County Department of roads and the erosion has been filled in by the county.

6.B.6.b. Colon Rural Water

Coliform samples were taken on September 25th and have passed.

Six Colon customers have been sent disconnection notices and staff will be visiting these people closer to the 10th of the month.

Staff has turned on the water service to a non-paying customer in Colon. The Saunders County Sheriffs office has paid the majority of this customers bill. A request was made to waive the \$200 reconnection fee this one time. Discussion is needed.

Staff has been cutting down volunteer trees along the waterline from Wahoo to Colon. The never ending battle.

6.B.6.c. Other

- Staff continues to work on a permitting issue to help Tim Bryson with some issues that the COE is currently having with work that has been done on his property.
- The 404 permit was issued to Game and Parks Commission to complete work out at Czechland lake. With this permit, construction of the improvements can begin. Dialogue for possible changes to project, mainly lowering the lake vs. purchasing more rock was had. Directors felt that purchasing more rock rather

than using a soil core in the long run was an overall better option. Direction was given to proceed with the intention of using a rock core for the jetties for the Czechland improvements.

6.C. Water Committee - Action as Required

6.C.1. REGULATORY

6.C.1.a. GROUND WATER MANAGEMENT AREA

6.C.1.a.1. Irrigated Acres for 2015 in the HCA and NHCA

6.C.1.a.2. Variance Request in the Hydrologically Connected Area (Limited Development Area)

- Attached is a letter from the law firm of Blankenau, Wilmoth, Jarecke, LLP representing Larry Hynek.
- Board needs to decide if the District will award any new irrigated acres for 2015. Staff recommends that if additional irrigated acres are awarded, that the top priority be given to corner systems, small fields, and/or completing a circle if less than 20 to 25 acres. This would address several of our compliance issues.
- The district received several last minute variances before the September 15th deadline bringing the final tally to 8,944.76 acres. Due to the size of the ranking sheet, it will be handed out.
- The Committee discussed current rainfall patterns, ground water levels in the Platte Valley, and differences between Texas and Nebraska Water Law.

6.C.1.a.3. Variance Requests in the Non-Hydrologically Connected Area (Normal Development Area)

No new updates. A total of 415.2 acres were awarded for 2015 in the Non-Hydrologically Connected area at the September 8, 2014 Board meeting.

6.C.1.a.4. Variance Requests in the Restricted Development Areas

No new variance requests. Variance requests for expanded irrigated acres within one mile of the border of this area will be placed in the same category as its adjoining section, either HCA or NHCA.

6.C.1.a.5. Well Permit Program

6.C.1.a.5.A. Well Permits Approved

Wells Permits Approved: 2

Landowner	Number of Wells	Number of New Irrigated Acres	Type of Well	County	Subarea
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Keith Runge	1	0	Livestock	Platte	Lower Shell Creek
Phil & Jena Buhman	1	0	Replacement	Platte	Platte Center

The total number of approved permits for 2014 is 64

Location of Approved Well Permits by County for 2014: Correct as of 10/1/2014

County	Irrigation -new	Irrigation – replacement	Stock	Commercial /Industrial	Municipal	Other	Total
Butler	1	5	0	0	0	0	6
Colfax	1	2	0	0	0	0	3
Dodge	5	8	0	1	0	1	15
Boone	5	1	0	0	0	0	6
Madison	1	0	0	0	0	0	1
Platte	4	5	1	0	0	1	11
Saunders	12	7	0	0	0	3	22
Total	29	28	1	1	0	5	64

6.C.1.a.6. 2014 Well Interference Complaints

Follow up to Bryon Rozic well interference complaint. If the LPNNRD declared this as a SQS it would encompass 15 irrigation wells in a nine section block (~ one mile radius) of which 5 of these wells are in the RDA of the Yutan subarea and are most likely to affect his well. A total of 51 irrigation wells in a 25 section block (~ two mile radius) of which 10 are in the RDA of the Yutan subarea.

Mr. Rozic states that during the non-irrigation season he has six feet of water in his well.

6.C.1.a.7. Fall Fertilizer Application Date

For our radio ad spot Troy Thompson will contact radio station KTIC to remind producers that they need to wait until November 1st before fall fertilizer can be applied on non-sandy soils. For sandy soils fertilization is not allowed until after March 1st. This ad should begin running next week.

6.C.1.a.8. Special Quantity Subareas

- At the previous Board meeting the proposed flow meter list was approved (see attached). The rolling allocation has been set at 27 acre inches for a three year period in the Butler-Saunders SQS starting in 2015. The allocation for the

Platte-Colfax SQS will not take effect until 2016, but the installation of flow meters is required in both subareas by May 1, 2015.

- Hilger and Angle have invited Great Plains Meter (they sell McCrometer flow meters) to attend our next Water Committee meeting on October 29, 2014 to discuss proper installation of flow meters and maintenance. The District will need to decide if the LPNNRD will run its own maintenance program or contract it out.

6.C.1.a.9. Lower Platte River Basin Water Management Plan Coalition (LPRBWMPC)

- The last Manager's meeting of the LPRBC was held on September 12, 2014 at the LPNNRD in Wahoo. The agenda addressed comments from the Technical Committee on Goals and Objectives as originally discussed by the LPRBC Board and Manager's Committee.
- The next meeting of the LPRBC Technical Committee is set for October 28, 2014 at the Lower Loup NRD in Ord, NE. The main topic on the agenda will be the discussion of water banking.

6.C.1.a.10. Voluntary Integrated Water Management Plan - LENRD and LPNNRD

- The last coordination meeting between LENRD, LPNNRD, and Olsson Associates was held on September 2, 2014 at the LPNNRD office in Wahoo NE. The Water Inventory and Water Balance Study will not be finished until later this fall.
- The next Stakeholder meeting is scheduled for October 7, 2014 at 2:00 p.m. at the LPNNRD office.
- The NRD has received an Invoice for \$18,913.73 from Olsson Assoc. for services rendered through September 6, 2014 (see attached invoice).

6.C.1.a.11. Cost Share Programs

6.C.1.a.11.A. Irrigation Well Sample Kits

356 kits have been requested and sent (eleven of these have been requested since Labor Day). The results from 334 of these kits and been received from HHS/Lincoln; range is 0.00 to 101.0 ppm. Six water samples were taken to the lab on Monday (September 29th). Letters have been mailed to producers who still have outstanding sample kits. Two more water samples have been received this week.

6.C.1.a.11.B. Domestic Well Sample Kits

Seven kit requests have been received and kits have been mailed. The results from six of these kits has been received and these results have been returned to the homeowner. This cost-share program is available only in the Phase 2 areas.

Kit #	Date sent	Date collected	Nitrate	Bacteria	Remarks
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			result (in ppm)	0 = no hit 1 = hit	
14-3386	7/9/2014	7/15/2014	10.1	0	
14-3461	7/21/2014	8/4/2014	0.00	0	
14-3462	7/22/2014	8/4/2014	7.93	0	
14-3463	7/22/2014	8/4/2014	17.5	0	
14-3508	8/1/2014				Doug Romshek - not yet used
14-3608	8/18/2014	8/26/2014	11.5	x	Ewert - bacteria > 30 hours
14-3630	8/20/2014	8/26/2014	15.7	x	Klug - only returned nitrate bottle

6.C.1.a.11.C. Nebraska Agricultural Water Management Network (NAWMN)

Payment has been received from the 33 producers that ordered equipment.

6.C.1.a.12. Bellwood Phase 2 Area

2014 is the twelfth year of this Phase 2 Area. 101 producer sample results have been received (range of 0.00 to 22.3 ppm).

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% (52 of 101)	14% (14 of 101)	35% (35 of 101)

6.C.1.a.13. Richland - Schuyler Phase 2 Area

2014 is the eleventh year of this Phase 2 Area. 233 producer sample results have been received (range of 0.00 to 101.0).

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% (63 of 233)	9% (21 of 233)	64% (149 of 233)

Attached are sample results comparing producer collected samples to NRD sampling data.

6.C.1.a.14. LPNNRD Certification

Three on-line tests have been completed and one take-home test has been returned:

Cert #	Cert date	Name	Re-cert	Comments
6129	9/2/2014	Grant Fitzgerald	new	for acres cert
6130	9/2/2014	Anthony Stepanek	new	
6131	9/2/2014	Eric Nelson	Yes	for acres cert
6132	9/11/2014	Greg Kucera	new	for Variance

6.C.1.a.15. Certifying Acres in Saunders and Dodge Counties

Saunders County: Over 1300 returned at this point with more daily.

Dodge County: Chris Poole says over half the county has been recreated in GIS at this point. The original data we obtained from GISW was beyond poorly done, the acres are consistently 40% under actual acres (I think this is due to a copy paste error on their part, not the assessor as their actual records are very close to what I come up with). Work has slowed down as the incredibly high resolution June 2012 aerials that showed pipe laid out in fields only covered a portion of the county. We will be ready to send Dodge out by the time Harvest wraps up. Tentatively, I'm guessing there will be under 900 so we'll send them in one shot with a due date of January 30th, 2015.

6.C.1.b. CHEMIGATION

No new updates on inspections. For 2013 we have 377 renewals and 28 new permit applications for a current total of 405.

Chemigation fees were briefly discussed at one of the sessions at the NARD conference.

- Several NRD's feel we should have the same fee structure or at least similar to one another. The maximum we can charge is: New = \$150, Renewal = \$100, Emergency = \$500. We don't want to set it to high since that could encourage illegal chemigation.
- Our estimated cost is \$88 per inspection and that includes staff time and vehicle expense including gas. Staff feel that going with this proposed fee structure shown below would cover our costs, especially if we do inspection of renewals once every three years as State Law allows.

- Staff proposed fee structure is:
- New = \$90
- Renewal = \$30
- Emergency = \$250

	Lower Platte North NRD	Upper Big Blue NRD	Little Blue NRD	Upper Loup NRD	Lower Elkhorn NRD	Maximum NRD's can charge
New	\$90	\$60	\$60	\$50	\$50 to \$60	\$150
Renewal	\$30	\$20	\$20	\$30	\$30 to \$40	\$100
Emergency	\$250	\$250	\$250			\$500

6.C.1.c. LIVESTOCK WASTE PERMITS

The LPNNRD has received no new livestock permit applications from DEQ since the last Water Committee meeting.

6.C.2. GROUND WATER PROGRAMS

6.C.2.a. DECOMMISSIONED WELL PROGRAM

6.C.2.a.1. Well Estimates

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

Well Owner	Type of Well	Cost Share Estimate	County
Greg Haskins	1 stock well 1 hand dug well	\$1,078.31	Butler

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

No wells are ready for cost share payment approval this month.

6.C.2.b. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

6.C.2.b.1. Elkhorn Loup Model (ELM)

Schomer and Angle attended the latest training session of the ELM model after the

NARD Conference. This involved the use of GIS, MODFLOW, and writing of computer code in 'batch files'. The next training is scheduled for early December.

6.C.2.b.2. Eastern Nebraska Water Resources Assessment (ENWRA)

The AEM flights are now scheduled for the week of October 12 to 18 over the northern half of Eastern Nebraska (see attached map). This will include most of the LPNNRD.

Katie Cameron (ENWRA Coordinator) has asked NRD staff to look over the routes and have someone drive the flightlines in our District for any last minute complications. This could include flying parallel to utility lines, buried pipelines, or crossing over buildings.

She will provide to us:

- draft flyers (for posting in towns or public places)
- draft land owner postcards and parcel lists
- draft public/media announcements (newspapers, tv, radio)
- planned landing/take-off locations

ENWRA is planning 7-10 days ahead for sending these notifications out and a media day is planned in Norfolk for the first week of production flights.

6.C.2.c. NEW MONITORING WELLS

Staff have reviewed several possible locations for test holes and new monitoring wells. This will be prioritized and sent to C&SD for their review. It is hoped to have the test holes done by next Spring and install any monitoring wells after that.

6.C.2.d. GROUND WATER ENERGY LEVELS

Attached are graphs of the ground water energy levels from select monitoring wells that were measured in the Wann Basin subarea on August 26, 2014. Results were emailed to all federal, state, and local agencies for their use.

The Fall readings of all District GWEL wells will start in late October.

6.C.2.e. GROUND WATER QUALITY SAMPLING

Monitoring Wells:

Staff continued its water sampling of our dedicated monitoring wells. Eight more of these were sampled in mid September, in eastern Saunders County. These are tested for pesticides, nitrates, and major ions. The value for measuring major ions is its a useful technique to identify different aquifers based on their geochemistry. For example, differences between alluvial aquifers such as near rivers and streams compared to sandstone aquifers.

Richland -Schuyler Intensive Sampling:

Staff sampled 114 wells in Colfax County, 91 of which are in the Richland-Schuyler Phase 2 area.

- Nitrate results range from 0 to 70.3 ppm. At 20% of these sites a duplicate sample was taken (17 to HHS, 7 to Midwest) and these duplicates replicated the nitrate result(s). 15 blank samples (distilled water) were also collected and all of these came back as <RL.

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
2014	0 to 70.3 ppm	28% (32 of 114)	4% (5 of 114)	68% (77 of 114)

- In nine of these sections (five of which are in the Phase 2 Area) pesticide samples were collected. These pesticide samples were sent to HHS Lab in Lincoln and one pesticide sample was sent to Midwest Lab in Omaha. All parameters at these sites were less than the Reporting Limit.
- In ten of the sections a “suite” of constituents were collected → sodium, potassium, calcium, magnesium, sulfate, chloride, bicarbonate, and carbonate. A Maximum Contaminant Level for many of these hasn’t yet been established. All of the results were less than the Critical Level. Again, major ions are a useful way to identify different aquifers.

6.C.3. SURFACE WATER PROGRAMS

6.C.3.a. STATE LAKES, FOR THE WEEK OF SEPTEMBER 22, 2014

DEQ sampling of Nebraska lakes will end the week of September 29th to October 3rd. In 2015 DEQ will start sampling Lake Wanahoo for bacteria and toxic algae and continue sampling of the Fremont State Lakes.

6.C.3.a.1. Bacteria Sampling

ONE LAKE tested high for *E. coli* bacteria this week. *E. coli* 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 DEQ wants people to be aware and use their own judgment on their use.

Lakes with High E. coli Bacteria Level

- **Rockford Lake in Gage County**

6.C.3.a.2. Toxic Algae

FOUR LAKES will be on “Health Alert” the week of September 22nd. Even though all four lakes tested below our threshold of 20 ppb this week they did test over last

week so they will remain on “**Health Alert**” for the remainder of the recreation season. It is DEQ policy that any lake that has microcystin levels over the established criterion of 20 ppb will be placed on “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. Non-contact activities such as boating, fishing, and camping are OK.

Kirkman’s Cove tested below 20 ppb for the second consecutive week so it will be reopened for full contact recreation.

Lakes with High Microcystin Level

- **Big Indian Creek Lake in Gage County**
- **Iron Horse Trail Lake in Pawnee County**
- **Lone Star Lake in Fillmore County**
- **Willow Creek Lake in Pierce County**

6.C.3.b. USGS WATER QUALITY MONITORING ON SHELL CREEK

USGS has submitted an invoice for water quality monitoring on Shell Creek for \$8,050.00 (see attached invoice).

6.C.3.c. USGS STREAM FLOW GAUGING SITES

USGS has submitted an invoice for stream flow gauging on Shell Creek and Wahoo Creeks and a real time GWEL site south of Mead NE for \$3,983.00. (see attached invoice).

6.C.4. OTHER

6.C.4.a. GMDA ANNUAL CONFERENCE

The GMDA Annual Conference will be held in Scottsdale AZ on January 6 - 8, 2015. The main topic will cover the engineering and management of irrigation from the Central Arizona Project. Kansas is thinking about doing a similar project in their State using Missouri River water, but that is several years in the future.

6.C.4.b. COMMENTS FROM THE PUBLIC

6.D. Projects Committee - Action as Required

6.D.1. SWCP

6.D.1.a. SWCP Application Approvals

Stephen Wieser
\$ 625.00

Platte Co. Flow Meter

Shirley A Johannes Rev. Trust **Colfax Co. W/S Basins \$ 10,337.86**
Committee discussion requested regarding future flow meter applications.

6.D.1.b. SWCP Payments

14-B-24	Patrick Ewert	Flow Meter	\$ 625.00
13-P-56	Myron Leffers	Flow Meter	\$ 493.50
14-P-38	Donald Yindrick	Flow Meter	\$ 535.00
14-C-20	Lewis Grotelueschen	Flow Meter	\$ 564.43
14-C-6	Jay Jedlicka	Flow Meter	\$ 594.50
14-S-7	Laverne Kadavy	Flow Meter	\$ 511.00
13-S-29	James Kubik	Planned Graz.	\$ 3,345.55
14-B-17	John Krafka	Flow Meter x 2	<u>\$ 1,250.00</u>
			TOTAL: \$
			7,918.98

TREE PAYMENTS:

The 3 listed landowners had tree applications approved and were planted this Summer. I thought they had been submitted to Projects committee in June for payment approval and it appears they were not.

Jeff Peterson	200 trees	\$ 196.00
Zac Bosley	600 trees	\$ 588.00
Charles Brezina	214 trees	<u>\$ 209.72</u>
		TOTAL: \$ 993.72

6.D.1.c. SWCP Cancellations

None

6.D.1.d. Cottonwood Creek Payments

None

6.D.1.e. Sand/Duck Creek Approvals

Michael Swanson Terraces & Tile \$ 10,740.00
-This project is directly above one of the upstream structures.

6.D.1.f. Sand/Duck Cost Share Payment

None

6.D.1.g. Wahoo Creek Cost Share Approvals

We are currently evaluating Wahoo Creek Watershed work and funding we will have available for BMPs. More information will be available at board meeting.

6.D.1.h. Lands For Conservation 2015 Application Review/Approvals

It is time to review Lands for Conservation applications for 2015 summer work. Gottschalk has sent out a letter (attached) to potential cooperators who may be interested to apply by October 7th. A recommended list will be presented for approval at the October 13th Board meeting.

6.D.1.i. Future Cost Share Funding For Irrigation Flow Meters

For several months now, the Board has been deliberating on whether or not we should continue to provide cost share to landowners for irrigation flow meters. The District has made this practice available for over fifteen years as an incentive for landowners. We since began requiring flow meters on all new high capacity wells for many years and now we are requiring meters in the Special Quantity Areas, which could require up to 300 new meters. Earlier this year, the Projects Committee debated dropping this practice under our SWCS program, as it was discussed that this should be considered just a normal expense to irrigate. We also have large grant matching requirements for land treatment practice in the Wahoo Creek Sand & Duck Creek, Cottonwood Creek and potentially next year in Shell Creek Watersheds. The growing demand for water meter cost share in recent years is using a substantial portion of our SWCP funds.. If we continue cost sharing, especially if we cost share in the Special Quantity Areas, our cost (at 50%) could exceed \$200,000 in those special areas alone. We have applied for an Environmental Trust Grant to assist landowners with the approximate 300 meters required, but will not know the grant outcome until early next year. In the meantime, staff is recommending placing all new SWCP applications for flow meters on hold until the Board decides whether or not we should continue to provide cost share for this practice.

6.D.1.j. Emergency Terrace Repair

None

6.D.2. WATERSHEDS

6.D.2.a. Shell Creek

6.D.2.a.1. Platte County Bridge Replacement Project

At the September 8th Board Meeting, the Board approved assisting landowner Mark Luchsinger and Platte County with a grade control project to help protect the landowners land and the County bridge replacement. Attached are letters mailed concerning LPNNRD's present involvement. Directors Hannah and Ruzicka attended the Platte County Supervisors Meeting on September 23 to discuss our potential assistance.

6.D.2.a.2. Shell Creek Grant Applications - EA Invoice

We received the attached \$3,000 invoice from EA Engineering for completing EPA 319 and NET grant applications for the next phase in the Shell Creek Watershed. The Board authorized this work on August 11, 2014.

6.D.2.a.3. Shell Creek Watershed Plan Payment

We received the attached progress report (98% complete) and a \$3,382.50 invoice for work completed on the Shell Creek Watershed Water Quality Plan.

6.D.2.b. Wahoo Creek Watershed

6.D.2.b.1. Water Quality Plan Phase I

We received a \$6,150 invoice from JEO for work completed on the Wahoo Creek Watershed Water Quality Plan. The committee will be asked for a recommendation to pay.

6.D.3. LOWER PLATTE RIVER CORRIDOR ALLIANCE - Meghan Sittler

6.D.3.a. LPRCA Monthly Report

Meghan will give the most recent update on LPRCA activities. Attached is information and a registration form for the November 6, 2014 LPRCA Summit. Jill has e-mailed this to all Directors, but let us know if you wish to attend.

6.D.3.b. LPRCA Invoices

Meghan Sittler will present invoices for payment as approved in LPNNRD FY 2015 budget.

6.D.4. OTHER

6.D.4.a. Army COE 205 Projects

6.D.4.a.1. Fremont 205

6.D.4.a.2. Schuyler 205

6.D.4.b. Shell Creek Landowner Levee Project Update

6.D.4.c. All Hazard Mitigation Plan Update- JEO Progress Report and Invoice

Jeff Henson, JEO, will give an update on progress being made on our District-wide All Hazard Mitigation Plan. Meetings have been scheduled October 9, 14 & 16 (see attached letter).

6.D.4.d. Butler County Road Dam Assistance Request

Butler County has requested our assistance to repair a road dam that we have on our list for working with the County on needed operation & maintenance (see attachment). This structure was inspected with the County a couple of years ago and it was jointly determined that rock rip-rap was needed to protect the structure and road. Director Hilger has since helped locate some free rip-rap, but there will still be costs for hauling and placement of both rip-and soil needed for the repairs. The County has an \$8,324.68

estimate to complete the work. Committee discussion and a recommendation is requested.

6.D.4.e. Review of Projects Financial Statement

6.D.5. SAND CREEK ENVIRONMENTAL RESTORATION PROJECT REPORT - Mike Murren

6.D.5.a. Lake Wanahoo

6.D.5.a.1. Wanahoo Recreation Agreement with NGPC - Update

Directors and staff met on September 15 to discuss details for a proposed Interlocal Agreement with NGPC for operating the Wanahoo Park. An update will be given. Attached is the most recent update on Wanahoo Park expenses.

6.D.5.a.2. County Road 17 Paving Update

6.D.5.a.3. Wahoo By-Pass Project

The road over Wanahoo Dam is closed for 42 days for paving. It is set to re-open in November

6.D.5.a.4. Wahoo to Wanahoo Trail

6.D.5.b. Upstream Structures - Update

6.D.6. WESTERN SARPY/CLEAR CREEK LEVEE REPORT

7. Additional Action Items

7.A. Western Sarpy/Clear Creek Landrights

We have been working several months to obtain land rights needed for the WS/CC Project and need to complete the process. As in the past we obtain and pay for these landrights and are reimbursed from Papiro NRD who is the lead project sponsor.

We currently feel all landowners are willing to settle for the above prices. If any of the landowners has a change of heart and do not wish to settle, a motion would be proper to begin the condemnation process to maintain the Corps of Engineers contracting and construction schedule.

7.B. Community Forestry Request

St. Peter Lutheran in North Bend has requested financial assist for their tree planting project "Rooted in Faith". The Church has lost many of their Scotch Pine. They will use Nielsen's Tree Farm in Dodge to plant 20 Spruce and Fir trees on the church grounds at an approximate cost of \$2,000. They would like to have the trees planted before the ground freezes this fall. The District can cost-share at 50% up to \$1,000. Maintenance will be performed by a groundskeeper and volunteers.

7.C. SWCP Payments

13-S-35	Henry Johnson	Flow Meter	\$625.00
13-D-44	Donna O'Connor	Flow Meter	\$594.50
13-C-52	Pine Tree Farms	Flow Meter	\$552.70
13-C-53	Oehlich Farm Inc.	Flow Meter	\$625.00
13-P-55	Todd Maurer	Flow Meter x 2	\$1,143.00
14-B-4	Robert Hilger	Flow Meter	\$625.00
14-S-27	Jakeman Farms Ltd.	Flow Meter	\$552.50
14-P-29	Paul Ramaekers	Flow Meter	\$535.00

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.