



**Programs, Projects & Operations
Subcommittee Meeting
May 10, 2011
6:30 p.m.
Agenda**

Programs, Projects & Operations:

John Conley, Chairman
Fred Conley, Vice-Chairman
David Klug
Rich Tesar
Jim Thompson

Alternate Members: Gus Erickson
Tim Fowler

Staff Liaison: Gerry Bowen
Martin Cleveland
Amanda Grint *
Ralph Puls
Dick Sklenar

1. Meeting Called to Order – Chairperson John Conley
2. Notification of Open Meetings Act Posting and Announcement of Meeting Procedure – Chairperson John Conley
3. Quorum Call
4. Adoption of Agenda
5. Proof of Publication of Meeting Notice
6. Review and Recommendation on Lower Platte River Corridor Alliance Proposed FY 2012 Budget – Meghan Sittler
7. Status Report on Eastern Nebraska Water Resources Assessment – Dana Divine, ENWRA
8. Review and Recommendation on Silver Creek Watershed Structure Site 11 Bids – Ralph Puls and Paul Woodward
9. Review and Recommendation on HRD Engineering Contract Amendment #2 for West Papillion Regional Basin No. 5 – Amanda Grint and John Engel, HDR
10. Review and Recommendation on Cost Share Agreement with UNO for the Expansion of Allwine Prairie – Amanda Grint and Tom Bragg, UNO
11. Review and Recommendation on Professional Engineering Services by HDR for Big Papio Channel Gabion Repair Project (105th and Pacific Streets) – Martin Cleveland and John Engel, HDR

12. Review and Recommendation on Update of the District's Flood Warning System – Amanda Grint
13. Review and Recommendation on FY 2012 Equipment Requirements – Jean Tait
14. Adjourn

Memorandum

To: Programs, Projects, and Operations Subcommittee

Subject: Lower Platte River Corridor Alliance – FY 12 Budget

Date: May 9, 2011 **Updated**

By: Gerry Bowen

The Lower Platte River Corridor Alliance (LPRCA) has proposed a budget for FY 2012. The various programs and projects of the LPRCA are described in the attached memo from Meghan Sittler, LPRCA Coordinator. The amounts are summarized below:

Program/Project	FY 12 LPRCA Budget	P-MRNRD share	P-MRNRD to be invoiced
Administration	\$90,000	\$16,000	\$16,000
Environmental Suitability Assessment	\$15,000	\$5,000	\$5,000
Cumulative Impacts Study – Phase 4 ¹	\$240,000	40,000	0
Sand Bar Monitoring Study ²	\$284,490	0	0
Pilot Sand Bar Study	\$66,935	0	0
Water Quality Monitoring	\$158,359	\$34,620	\$34,620
WQ Monitoring expansion ²	\$218,890	0	0
River Obstruction Removal	\$334,641	\$60,000	\$60,000
Public Opinion Survey	\$30,000	0	0
Lower Platte River Restoration ¹	\$660,000	\$53,334	0
Educational materials	\$6,800	\$450	\$450
Septic System Discharge Remote Sensing ³	\$92,000	\$2,700	0
Tours and Meetings	\$26,500	0	0
Miscellaneous	\$11,327	0	0
Total	\$2,234,942	\$212,104	\$116,070

¹ Dependent upon federal funds being available.

² Dependent upon NET grant.

³ Dependent upon “319” grant

The funding for several of these projects has been carried forward from previous years’ budgets and will not require any additional funding to accomplish.

The FY 11 Budget amount for the LPRCA was \$203,450.

- **Management recommends that the Subcommittee recommend to the Board that the Fiscal Year 2012 Budget for the Lower Platte River Corridor Alliance in the amount of \$212,104.00 be approved, subject to funds being included in the District’s FY 12 Budget.**

7. Status Report on Eastern Nebraska Water Resources Assessment –
Dana Divine, ENWRA

Dana Divine will be giving a verbal report at the PPO Subcommittee meeting.

MEMORANDUM

TO: Programs Projects and Operations Subcommittee

SUBJECT: Review and Recommendation of Bids Received for Silver Creek Watershed Structure Site # 11

DATE: May 5, 2011

FROM: Ralph Puls, Project Coordinator and Paul Woodward, Olsson & Associates

On April 29, 2011, bids were opened for the construction of Dam Site #11 of the Silver Creek Watershed Project in Burt County, a copy of the bid tabulation is attached. The Silver Creek Special Watershed Project is a project developed by the Natural Resources Conservation Service and the P-MRNRD. It is a multi-purpose project designed to control erosion and provide grade stabilization in the 25 square mile watershed through construction of terrace systems and erosion control/grade stabilization dams. The project was also designed to reduce the amount of sediment leaving the watershed and deposited downstream in the Burt-Washington Drainage District. Site #11 is the last structure to be built in the watershed project plan, and is the largest structure as well. A Wetland Mitigation Bank will be developed as a part of the project.

Olsson & Associates designed the structure, and a letter from them is attached. The letter states that the apparent low bidder is Dixon Construction Company from Correctionville, Iowa. Their bid was in the amount of \$1,267,735.30. The Engineers estimate for the construction of this structure is \$1,325,012.04. Olsson's reviewed the work history for similar projects and based upon Dixon's work history and references (attached), conclude that the contractor can successfully construct this structure. Olsson's recommend that a contract be awarded to Dixon Construction Company.

- **Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute a contract with Dixon Construction Company for the construction of Silver Creek Watershed Site #11 in the amount of \$1,267,735.30 subject to changes deemed necessary by the General Manager and approval as to form by District Legal Counsel.**

Memorandum

To: Programs, Projects and Operations Subcommittee

Re: Amendment #2 to Professional Services Contract with HDR Engineering, Inc. for WP5

Date: May 4, 2011

From: Amanda Grint, Water Resources Engineer

In January 2009, the Board approved the initial contract (Phase 1 of 3) with HDR Engineering, Inc. (HDR) in the amount of \$529,000 for professional services for the planning, permitting, design and construction of West Papillion Regional Basin Number 5 (WP5), see attached map. The work was planned to be completed in three phases. In March 2010, Amendment #1 was approved to complete Phase 2 of the work, design and permitting, bringing the total contract amount to \$1,346,700. Amendment #2 (attached) is being presented for consideration to include out of scope work performed under the Phase 2 contract.

A summary of Amendment #2 is as follows:

- Project Management has been extended through June 30, 2011 and additional technical coordination was performed.
- Additional permit requirements and coordination for the USACE 404 permit.
- Additional work associated with the upgrade of the two proposed water quality basins from a low hazard dam to a significant hazard dam.
- Additional utility relocation design
- Conduct alternative analysis for foundation design for the Lincoln Road bridge in an effort to save significant dollars on the construction.
- Install two piezometers to monitor groundwater levels near the sewer relocation area in order to provide more detail in the specifications and thus receive more competitive bids.
- Draft Emergency Action Plans for the two water quality basins.

In conclusion, HDR would provide the additional professional services outlined in the attached noted Amendment #2 to the Professional Services contract for the WP-5 project for a not to exceed amount of \$90,740. This would bring the total not to exceed amount of the contract to \$1,437,440.

- **Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute the proposed Professional Services Agreement Amendment #2 between the District and HDR Engineering, Inc. for the WP5 project, bringing the total not to exceed contract amount to \$1,437,440, subject to changes deemed necessary by the General Manager and approval as to form by District Legal Counsel.**

Memorandum

To: PPO Subcommittee

Re: Proposed Expansion of the Allwine Prairie Preserve – Glacier Creek Project

Date: May 5, 2011

From: Amanda Grint, Water Resources Engineer

A Memorandum of Understanding was signed in January 2007 to establish the benefit of combining resources with the University of Nebraska Omaha (UNO) to propose a purchase of approximately 70 acres adjacent to the UNO managed Allwine Prairie-Glacier Creek Project. In June 2009, a purchase agreement was approved and approximately 80 acres along the Big Papillion Creek was purchased from Heritage Development utilizing District, UNO and Environmental Trust funds. The District is currently in the design phase for a wetland and stream channel mitigation bank on the site.

Recently an opportunity has been presented to UNO by the representatives of Heritage Development to acquire an additional approximately 180 acres on the north and west sides of Allwine Prairie, see attached map. This additional land purchase would secure the watershed draining through Glacier Creek and the Allwine Prairie. The District would have the opportunity to establish an additional stream mitigation bank on the site if and when it chooses to do so.

In order to utilize UNO's remaining available Nebraska Environmental Trust funds, it is proposed to purchase the tract in two pieces (see second map). The first tract would be north of Allwine and totals 76.16 acres. The purchase price is \$1,066,240.00, or \$14,000.00 per acre. The proposal includes purchasing the north tract by December 15, 2011 with a 24 month option to purchase the west tract (approximately 105 acres).

UNO requests that the District cost share 50/50 on the purchase of the Heritage Development property (approximately 180 acres in total) to a maximum District contribution of \$1,400,000.00. The cost share is proposed to be spread out through four budget years, \$350,000 per year, beginning with the current FY11. The FY11 cost share could be reallocated to this purchase from Glacier Creek- Land Rights as an anticipated land acquisition with the Kobs family has fallen through (see location of Kobs property on map). For the purchase on the west side of Allwine, the NRCS Farm and Ranch Program will be applied for and a potential grant could reduce the costs to the District and UNO.

This proposed commitment from the District would preserve and expand a unique ecosystem in the Omaha metro area as well as offers the opportunity for an additional stream mitigation that could be used for District projects or sold as credits under our Mitigation Banking Program.

- **Staff recommends that the Subcommittee recommend to the Board that the General Manager be authorized to enter in to an interlocal agreement with the University of Nebraska Omaha to cost share 50/50 up to a maximum of \$1,400,000 over a four year period beginning in FY11 for the proposed land acquisition to expand Allwine Prairie Preserve-Glacier Creek Project.**

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

SUBJECT: Big Papio Channel Gabion Repair Project (105th and Pacific Street)

DATE: May 3, 2011

FROM: Martin P. Cleveland

In summer 2010, the referenced area experienced a number of high water events that overtopped the gabion wall system that serves as a channel erosion resistant boundary. These gabions were installed in 2002 as part of the Big Papio Channel Project, to ensure that possible channel erosion did not destabilize an adjacent steep slope that is 50 ft. above creek level and contains a row of houses.

Thiele Geotech Inc. was hired by Management to evaluate the gabion system and provide recommendations for a possible solution and their March 23, 2011 report is enclosed. As a result of the Thiele report, it has been concluded that the repair project may be fairly extensive and require some specialized structural design for possible sheet pile wall.

At the April 14, 2011 Board meeting the General Manager was authorized to execute a professional engineering agreement for the Big Papio Channel Gabion Repair Project with Lamp Rynearson and Associates (LRA). Unfortunately, the LRA and District attorneys could not agree on a liability clause in the agreement. LRA had requested a clause that stated "Engineer is not liable for any problems or damages related to global stability". It was concluded that a contract with LRA was not possible due to the liability exclusion.

District staff contacted HDR Engineering to see if they would be willing to provide engineering services for the referenced project without a liability exclusion clause. HDR did agree to participate in the project design and a proposed contract is enclosed.

Management recommends that the District waive its consultant selection procedures and hire HDR Engineering for these engineering services due to the time sensitive nature of the gabion failure, upcoming high water season and need of design to secure FEMA cost share funding. FEMA has verbally indicated that this repair may be eligible for 75% construction cost share, if the project design meets their expectations of a permanent solution.

- **It is Management's recommendation that the Subcommittee recommend to the Board that the District waive its consultant selection procedures and the General Manager be authorized to execute a professional engineering services agreement for the Big Papio Channel Gabion Repair Project with HDR Engineering with a maximum not to exceed cost of \$110,322 subject to charges deemed necessary the General Manager, and approval as to form by District legal counsel.**

Memorandum

To: Programs, Projects and Operations Subcommittee

Re: Update to District's flood warning system

Date: May 4, 2011

From: Amanda Grint, Water Resources Engineer

In 1993, the District worked with the US Army Corps of Engineers (USACE) to install a flood warning system for the Papillion Creek Watershed. The system currently consists of 22 gage stations, five of which report rain data and the remaining 17 report rain and stream stage data. The attached map shows the location of the gages. The data is reported real time and is available to the public through the National Weather Service web site. Also, an agreement is in place with Douglas County, Sarpy County, Washington County and the City of Omaha to share the cost of the system.

A maintenance contract between Aquatracker and the District has been in place since 1994 to maintain and service these sites. The data has become unreliable as the equipment is showing signs of aging. In addition, the City of Omaha has expressed concern on the data reliability for use in their federally regulated CSO program. In an effort to provide the most accurate data for the National Weather Service, the partners who cooperatively pay for the system, for new hydrologic models and for record keeping it is necessary to update the floodwarning system.

High Sierra Electronics is the current equipment provider and they spent several days in March with NRD staff reviewing each site and providing recommendations for an upgrade. A complete report of the status of the system and recommended equipment upgrades was provided. A list of recommended equipment along with the cost for those items totaling \$142,428.00 was compiled and is attached for review. The proposed equipment upgrades include radar sensors and will provide the District with the most current technology. The maintenance contract with Aquatracker will be terminated at the end of the summer and the maintenance will be the responsibility of District staff.

Additionally, beyond the proposed upgrade to the system, rain gage equipment and calibration were necessary to collect the rain data this year. More funds were spent than anticipated in Account #01 03 536 4410, the current balance is \$26,096 and the budgeted amount was \$20,000. With additional purchases for the system such as an antennae modification kit and two circuit boards yet to come, staff requests that the Subcommittee recommend to the Board that the account be allowed to exceed the budgeted amount by more than 10%. The additional funds needed for equipment will come from Account #01 03 536 4400.

- **Management recommends that the Subcommittee recommend to the Board that Account # 01 03 536 4410 Flood Preparedness – Construction be allowed to exceed 110% of the budgeted amount and that the General Manager be authorized to execute a contract with High Sierra Electronics in the amount of \$142,428.00 for equipment to update the District's floodwarning system.**

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

SUBJECT: Equipment Replacement/Purchase Request for FY 2012

DATE: May 9, 2011 **Updated Worksheet**

FROM: Jean Friends Tait, Purchasing Agent

Attached is a chart of equipment items identified for purchase/replacement in FY 2012. The process to identify and prioritize equipment items most needed by the District was determined by a staff Equipment Committee comprised of Jerry Herbster, Martin Cleveland, Bill Warren, Trent Heiser, Terry Schumacher and me. Each section within the NRD identified their equipment requirements and the equipment committee reviewed each item and made recommendations to the General Manager for purchase. The GM then reviewed the Committee's recommendations and made further changes to the request list.

The FY 2011 total equipment budget was \$276,445. The FY 2012 equipment budget request is \$282,000. State statute allows for a maximum 2.5% increase in restricted funds (to include general operational costs, i.e. salaries, equipment, insurance, etc., does not include project expenditures, i.e. construction, land rights, etc.). The Board can approve an additional 1% increase for a total of 3.5% increase in restricted funds, if required.

- **Management recommends approval of the FY 2012 Equipment Requirements subject to FY 2012 Budget as listed in this memo.**