

**LAKE AGASSIZ WATER AUTHORITY****BOARD OF DIRECTORS****Conference Call****April 17, 2020**

A meeting of the Lake Agassiz Water Authority (LAWA) board of directors was held by conference call at the Garrison Diversion Conservancy District, Carrington, North Dakota, on April 17, 2020. The meeting was called to order by Chair Mahoney at 11 a.m.

**MEMBERS PARTICIPATING**

Chair Timothy Mahoney  
Vice Chair Ken Vein  
Director LaVonne Althoff (left call at 12:05 p.m.)  
Director Rick Bigwood  
Director Bill Bohnsack (left call at 12:25 p.m.)  
Director Tom Erdmann  
Director Jim Schmaltz  
Alternate Jerry Blomeke for Director Mark Johnson  
Alternate Steve Hansen for Director LaVonne Althoff  
Alternate Marc Pritchard for Director Ralf Mehnert-Meland  
Alternate Brian Reilly for Director Keith Nilson (left call at 12:25 pm.)  
Associate Member Carol Siegert  
Secretary Duane DeKrey

**MEMBERS ABSENT**

Director Dave Carlsrud  
Associate Member Don Bajumpaa  
Associate Member Dick Johnson

The meeting was recorded to assist with compilation of the minutes.

**APPROVAL OF AGENDA**

**Motion by Director Althoff to approve the board agenda. Second by Director Schmaltz. Upon voice vote, motion carried.**

**CONSIDERATION OF MINUTES**

**Motion by Director Erdmann to approve the January 31, 2020, Lake Agassiz Water Authority Board minutes as distributed. Second by Director Bohnsack. Upon voice vote, motion carried.**

## **OFFICER REPORT**

Vice Chair Vein did not have a report.

## **COMMITTEE REPORTS**

**LAWA Technical Advisory Committee (TAC)** - - Al Grasser Chair, LAWA TAC, reported that the TAC met on March 10 in Fargo to review critical action items, including bidding service task orders and plans and specifications for early out construction projects for the Red River Valley Water Supply Project (RRVWSP). An update was also received on the StateMod.

Mr. Grasser explained the three task orders are for bidding services on the early out construction projects and stated the TAC recommends the task orders for board approval.

The TAC also specifically discussed the front end documents of the Division 0 and Division 1 plans and specifications for the intake pumping station and wetwell, discharge structure and transmission pipeline. The committee answered questions and provided clarification from the design team and/or Garrison Diversion staff.

Mr. Grasser said the plans and specifications, as presented, were 99 percent complete and did not get approved at the meeting. There were no problems at that time with the technical components. The committee members were given the documents to review, along with a deadline of March 31 to submit comments. Since no comments were received by the deadline, Mr. Grasser commented this could be treated as approval by the TAC today on the front end documents.

### **Task Orders**

Kip Kovar, Deputy Program Manager, RRVWSP Engineering, said Garrison Diversion staff will be involved in the bidding process and responsibilities. The following task orders for bidding services will allow the engineering consultant to assist Garrison Diversion with the bidding process.

#### **Bidding Services**

Transmission Pipeline-East, Contract 5a, Bidding Services and General Project Support

Mr. Kovar commented this is the first pipeline segment to be constructed. It is approximately 1.5 miles long and is located south of Carrington.

This task order is for professional services for an element of the overall project; it authorizes the engineer to assist Garrison Diversion staff with public advertisement and bidding for construction of an early-out pipeline project referred to as Contract 5a falling under the transmission pipeline-east segment of the 167-mile RRVWSP. A notice to proceed (NTP) will subsequently be issued to a general contractor by Garrison Diversion to begin construction of the short pipeline section and associated trenchless crossings(s). The cost of the task order is \$86,685.

### Discharge Structure & Site Development

This task order is for professional services for an element of the overall project; it authorizes the Engineer to assist Garrison Diversion staff with public advertisement and bidding for construction of a discharge structure, also referred to as an outfall, on the bank of the Sheyenne River south of Cooperstown, ND. An NTP will be subsequently issued to a general contractor by Garrison Diversion to begin construction of the below-grade concrete structure, site piping, and associated surface and site improvements. The cost of the task order is \$56,799.

### Missouri River Intake Pumping Station (MRIPS) Wet Well

This task order is for professional services for an element of the overall project; it authorizes the engineer to assist Garrison Diversion staff with public advertisement and bidding for site development and construction of a pumping station wet well, also referred to as a tunnel shaft, to be constructed on the bank of the Missouri River south of Washburn, ND. An NTP will be subsequently issued to a general contractor by Garrison Diversion to begin construction of the below-grade concrete structure and associated site improvements. The cost of the task order is \$56,881.

**Motion by Director Althoff to approve bidding services and general project support on the following Red River Valley Water Supply Project task orders: 1) Transmission Pipeline-East, Contract 5a, in the amount of \$86,685, 2) Discharge Structure & Site Development in the amount of \$56,799 and 3) Missouri River Intake Pumping Station Wet Well in the amount of \$56,881. Second by Alternate Blomeke. Upon roll call vote, the following directors voted aye: Althoff, Bigwood, Bohnsack, Erdmann, Knutson, Mahoney, Schmaltz and Vein. Alternates voting aye: Blomeke, Pritchard and Reilly. Absent and not voting: Carlsrud. Motion carried.**

### Missouri River Intake Marine Geotechnical Investigation

Mr. Kovar reported the Geotechnical Investigation for the Missouri River intake (MRI) will establish the design perimeters for the tunnel and the wet well shaft that need to be completed.

A geotechnical investigation for the MRI site was completed earlier which provided critical data necessary for preliminary and final design efforts for the MRI wetwell/tunnel shaft. In addition, the data was useful in completion of a preliminary design of the complete MRI system (crib, tunnel, and pumping station wetwell). Garrison Diversion would now like to move forward with final design and preparation of bidding documents for the crib and tunnel so construction of the facilities in and beneath the river can be completed prior to a 2022 expiration of the USACE Nationwide Permit Number 12 Utility Line Activities issued for MRI construction.

This task order for a geotechnical investigation will provide critical soils information necessary for design and construction of the MRI crib and tunnel. Design and construction will be performed under separate authorizations. This geotechnical investigation includes drilling borings along the MRI tunnel alignment and at the location of the MRI crib to characterize subsurface soil and rock conditions in areas not covered by the previous

geotechnical investigations. This task order also includes laboratory and field testing of the samples collected from the borings and amending the previously prepared Geotechnical Data Report (GDR) from the collected data. The cost of the task order is \$608,000.

**Motion by Director Bigwood to approve the Red River Valley Water Supply Project task order for a Missouri River Intake Marine Geotechnical Investigation in the amount of \$608,000. Second by Director Schmaltz. Upon roll call vote, the following directors voted aye: Bigwood, Bohnsack, Erdmann, Mahoney, Schmaltz, Vein and Althoff. Alternates voting aye: Blomeke, Pritchard and Reilley. Absent and not voting: Carlsrud. Motion carried.**

### Program Management

Mr. Kovar stated that program management was approved by LAWA and Garrison Diversion boards in the previous biennium. The risk management register and the master schedule for the entire project were built at that time, including several different budgets. Now that a more definite plan and schedule have been determined, it is time to have a new program management task order.

There are two objectives of the Program Management Task Order. The first is to fund a variety of ongoing calls and meetings to facilitate and support communication and coordination between Garrison Diversion staff and external stakeholders regarding the RRVWSP. The second is the ongoing use of previously developed tools such as the trend register, issues/decision log, risk register, etc. to help guide the program. The cost of the task order is \$436,000.

**Motion by Vice Chair Vein to approve the 2019-2021 Biennium Program Management Services task order in the amount of \$436,000. Second by Director Erdmann. Upon roll call vote, the following directors voted aye: Bohnsack, Erdmann, Mahoney, Schmaltz, Vein, Althoff and Bigwood. Alternates voting aye: Blomeke, Pritchard and Reilly. Absent and not voting: Carlsrud. Motion carried.**

### **Early Out Construction**

#### Final Plans and Specifications

Mr. Kovar referred to the background information provided with the meeting materials regarding the final plans and specifications on the early out construction projects for the RRVWSP. The TAC received all of these documents and reviewed each.

A cover sheet, drawing and a general overview of the project profile and location were provided for: 1) Transmission Pipeline East – Contract 5a, 2) Discharge Structure and Site Development and 3) Missouri River Intake Pumping Station Wet Well.

Mr. Kovar said it is important to receive the board's approval on these documents because they need to be stamped by professional engineers so that final submittals can be made to the railroad and the ND Department of Transportation in order to obtain the last two permits.

Vice Chair Vein said he had questions in the specifications regarding the warranty period on these materials that are going to be placed in the ground now and will not be fully utilized for years to come. The pipeline could be pressure tested, but it could be quite a while down the road before fully operational. Garrison Diversion will be responsible for assuring that it is still functional and operates as originally planned.

Mr. Kovar said as part of the plans and specs, there are front end documents, Division 1 and Division 0 typically deal with the contractual relationship between the contractor and the owner. There are some gaps that have not been filled in, and they have been highlighted. For example, when to go out for bids, when bid opening will be, limits of insurance for contractors and warranty periods. It was hoped that an insurance advisor would soon be available to assist with those questions.

Vice Chair Vein asked for notification when those items are filled even though this is prior approval. The project needs to proceed, but there is that risk involved, and he wants to make sure the board understands what the insurance advisor says as the project moves forward.

**Motion by Vice Chair Vein to approve the plans and specifications for the Red River Valley Water Supply Project on the following early out construction projects: 1) Transmission Pipeline-East, Contract 5a, 2) Discharge Structure & Site Development and 3) Missouri River Intake Pumping Station Wet Well. Second by Director Althoff. Upon roll call vote, the following directors voted aye: Erdmann, Mahoney, Schmaltz, Vein, Althoff, Bigwood and Bohnsack. Alternates voting aye: Blomeke, Pritchard and Reilly. Absent and not voting: Carlsrud. Motion carried.**

## **RED RIVER VALLEY WATER SUPPLY PROJECT UPDATE**

### **Program Management Update**

Merri Mooridian, Deputy Program Manager, RRVWSP Administration, referred to and commented on the most recent adjustments made to the program management update dated April 3, 2020. This is a Gantt chart displaying the status of the contingencies to be met in SB 2020 while working toward early out construction on the RRVWSP. Tasks are listed by category according to start and finish dates.

### **Planning Level Budget**

Ms. Mooridian also referred to and reviewed the two graphics showing the RRVWSP Planning Level Budget dated March 31, 2020, copies which are attached to these minutes as Annex I.

Ms. Mooridian said the bar chart illustrates the cumulative project expenses. The funding table shows \$28.4 million has been expended to move the project forward. Final phased design is 85 percent complete, with actual expenses totaling \$12.9 million. Outstanding expenses on final phased design are \$2.2 million.

### **2019-2021 Revised Draft Budget**

Ms. Mooridian presented the Revised Draft 2019-2021 Budget for the RRVWSP and reviewed the early out construction items according to priority being proposed in the work plan totaling \$7.5 million at a 75/25 percent cost share. Bidding services were approved today for items 2, 3, and 4. Also approved were items 5A and 10. A copy of the budget is attached to these minutes as Annex II.

The total funding amount approved today for those projects is approximately \$1.244 million. The total 25 percent local cost share is \$311,000.

Mr. Mooridian called attention to the table showing anticipated items of work that will require action by the LAWA TAC and/or LAWA Board in the next six months.

### **RRVWSP Work Plan Update**

Mr. Kovar referred to the RRVWSP Work Plan Update dated March 25, 2020, and provided comments on recent activities. A copy of the update is attached to these minutes as Annex III.

Mr. Kovar added the most significant thing that has taken place since the January board meeting is the Department of Environmental Quality's release of the draft discharge permit on March 23. There is now a 60-day comment period on the draft that closes on May 23.

### **Eastern North Dakota Alternate Water Supply (ENDAWS)**

Mr. Kovar reported Black & Veatch is working on three engineering reports regarding ENDAWS. One is on cost estimates for alternatives, the second is biota water treatment plant costs and alternatives and the third is an aquatic invasive species risk and consequence analysis. These reports are wrapping up and are 99 percent complete. They will be appendices to the Environmental Impact Statement (EIS).

Mr. Kovar also reported the Draft EIS on ENDAWS was released today to the cooperating agency team members. Following team comments, the draft will go out to the public for comments.

### **FINANCIAL REPORT**

**2020 Budget Analysis Statement** - - Ms. Mooridian referred to and reviewed the Budget Analysis statement for the period of January 1 to March 31, 2020, a copy which is attached to these minutes as Annex IV.

Total income received through March is \$30,367. Expenses are \$9,577. The total bank balance at the end of March is \$733,358.

#### **2020 Bills Paid**

Bills paid in 2020 are \$1,000 to the ND Water Coalition for annual membership dues and \$2,747.50 to Ohnstad Twichell for attorney fees.

Bills paid since the meeting in January are \$109.42 to Deluxe and \$5,720 to Ohnstad Twichell.

**Motion by Director Althoff to approve the Budget Analysis Statement and bills paid for the period of January 1 through March 31, 2020. Second by Director Bigwood. Upon roll call vote, the following directors voted aye: Erdmann, Mahoney, Schmaltz, Vein, Althoff, Bigwood and Bohnsack. Alternates voting aye: Blomeke, Pritchard and Reilly. Absent and not voting: Carlsrud. Motion carried.**

## **Membership Dues**

### Summary of Dues and Cost Share Payments

Ms. Mooridian referred to the table showing LAWA membership dues collected for 2020. The amount collected through March totals \$30,350. This is provided for the board's information.

## **UNFINISHED BUSINESS**

**Insurance Advisor** - - Ms. Mooridian informed the board two large national firms were interviewed for the insurance advisor position by representatives from Garrison Diversion and LAWA. Interviews were held on February 28 with Aon, who has previously worked with the Fargo-Moorhead Diversion Authority, and Willis Towers Watson.

Ms. Mooridian said it was the selection committee's consensus to move forward with Aon. Aon has more experience with projects similar to the RRVWSP. Vogel Law is preparing a draft contract between Garrison Diversion and Aon.

Vice Chair Vein added that he was very comfortable with Aon's knowledge base having worked with the Fargo-Moorhead Diversion project.

**Motion by Vice Chair Vein to retain Aon as insurance advisor for the Red River Valley Water Supply Project. Second by Alternate Blomeke. Upon roll call vote, the following directors voted aye: Mahoney, Schmaltz, Vein, Althoff, Bigwood, Bohnsack and Erdmann. Alternates voting aye: Blomeke, Pritchard and Reilly. Absent and not voting: Carlsrud. Motion carried.**

## **NEW BUSINESS**

**North Dakota Insurance Reserve Fund** - - Ms. Mooridian commented that the North Dakota Insurance Reserve Fund (NDRIF) has sent notice of its annual meeting. The purpose of the 2020 Annual Meeting is to review 2019 business, discuss current and future business and elect representatives in the "Others" and "Schools" categories to the NDRIF board of directors. LAWA is entitled to vote.

Ms. Mooridian asked if the board would like to designate a representative to vote on the board's behalf.

**Motion by Vice Chair Vein authorizing the secretary, Duane DeKrey, to cast votes on behalf of Lake Agassiz Water Authority at the ND Insurance Reserve Fund's annual meeting on May 20, 2020. Second by Director Bohnsack. Upon voice vote, motion carried.**

**Legal Issues** - - Tami Norgard, Vogel Law, provided a status report on the State of Missouri's lawsuit regarding the Finding of No Significant Impact (FONSI) pertaining to the Central North Dakota Water Supply (CNDWS) project.

## **EXECUTIVE SESSION**

### **Cooperation Agreement**

Ken Royse, Chairman, Garrison Diversion Conservancy District, addressed the LAWA board regarding the Cooperation Agreement between Garrison Diversion and LAWA covering the background on the document and expressing Garrison Diversion's intentions to continue working collaboratively and cooperatively with LAWA on the RRVWSP.

**Motion by Director Althoff to enter into Executive Session pursuant to N.D.C.C. § 44-04-19.1 (9) (10) to provide direction to LAWA's attorney and Negotiating Team regarding the Cooperation Agreement between Lake Agassiz Water Authority and Garrison Diversion Conservancy District. Second by Director Erdmann. Upon roll call vote, the following directors voted aye: Mahoney, Schmaltz, Vein, Althoff, Bigwood, Bohnsack and Erdmann. Alternates voting aye: Pritchard, Reilly and Blomeke. Absent and not voting: Carlsrud.**

*Director Althoff left the meeting and Steve Hansen sat in as her alternate.*

The board entered in Executive Session at 12:05 p.m.

The board reconvened into regular session at 12:25 p.m.

**Motion by Vice Chair Vein to approve the Cooperation Agreement between Lake Agassiz Water Authority and Garrison Diversion Conservancy District as presented to Lake Agassiz Water Authority on April 17, 2020, and authorize signage by its chair and secretary upon approval of the agreement by the Garrison Diversion board of directors. Second by Alternate Blomeke. Upon roll call vote, the following directors voted aye: Bigwood, Erdmann, Mahoney, Schmaltz and Vein. Alternates voting aye: Blomeke, Hansen and Pritchard. Absent and not voting: Carlsrud, Bohnsack and Nilson.**

The board adjourned at 12:30 p.m.

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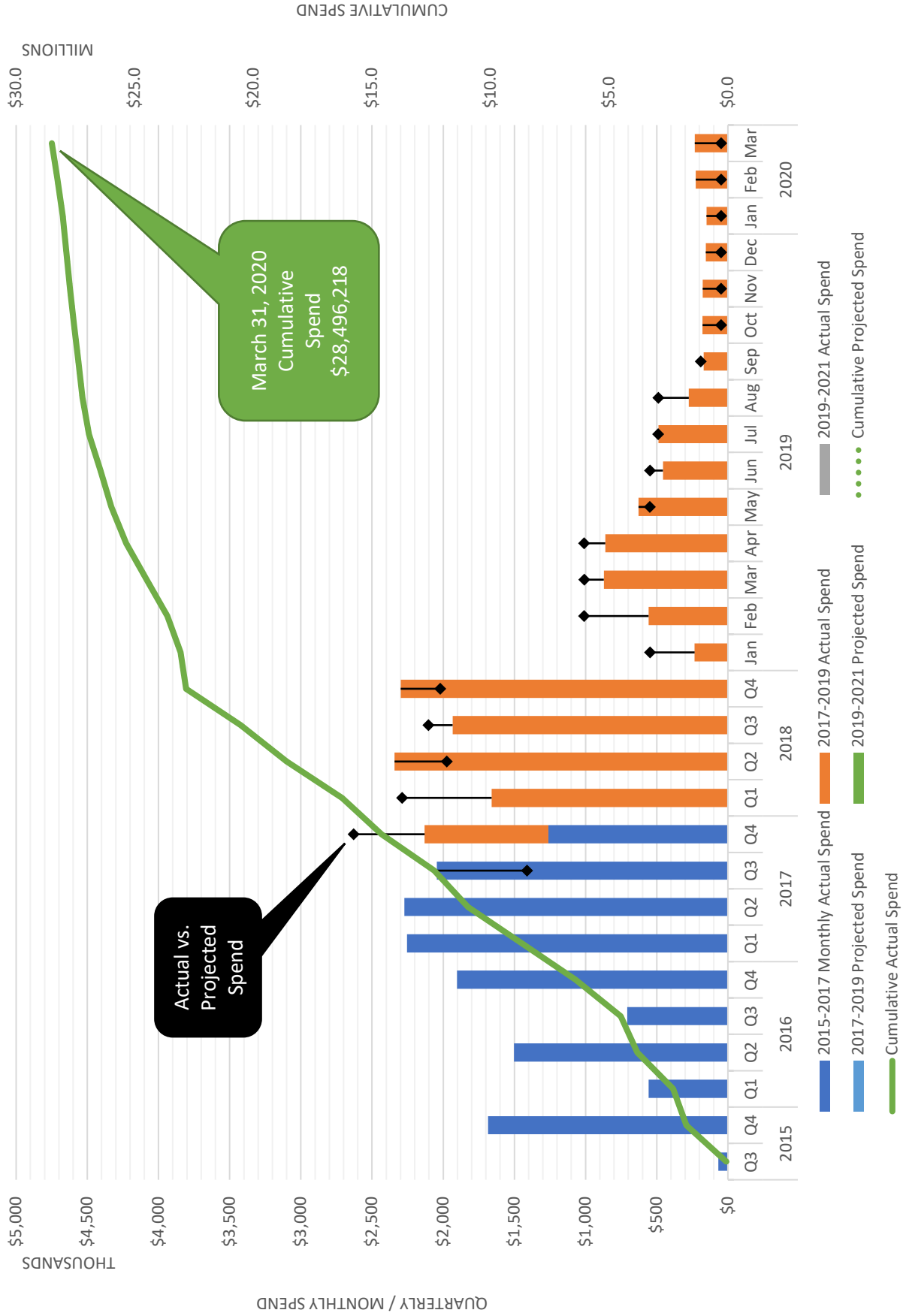
Timothy Mahoney, Chair

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Duane DeKrey, Secretary



# Red River Valley Water Supply Project Planning Level Budget



**Red River Valley Water Supply Project  
Planning Level Budget**

March 31, 2020	Percent Complete	Current Estimate	Actual Expenses	Outstanding Expenses
<b>Conceptual Design Subtotal</b>	100%	\$ 5,302,130	\$ 5,302,130	\$ 0
<b>Preliminary Design Subtotal</b>	100%	\$ 10,217,606	\$ 10,217,606	\$ 0
<b>Final Design</b>				
<b>Engineering</b>				
Pipeline Final Design - 28 miles	100%	\$ 3,320,000	\$ 3,319,175	\$ 825
Trenchless Final Design	100%	\$ 452,000	\$ 452,000	\$ (0)
Discharge Final Design	99%	\$ 508,000	\$ 501,210	\$ 6,790
Land Services - Segments 1, 2a, 2b, 4	74%	\$ 1,602,285	\$ 1,185,122	\$ 417,163
Geotechnical	96%	\$ 544,000	\$ 521,432	\$ 22,568
Sediment Transport	96%	\$ 396,000	\$ 380,947	\$ 15,053
Missouri River Intake Final Design	98%	\$ 2,035,000	\$ 1,986,203	\$ 48,797
Upper Sheyenne Discharge Analysis *	93%	\$ 111,723	\$ 104,030	\$ 7,693
Unmanned Aircraft System Services	100%	\$ 71,443	\$ 71,443	\$ (0)
Value Engineering	73%	\$ 262,539	\$ 191,173	\$ 71,366
NDPDES Permit Application Supplement	87%	\$ 395,000	\$ 342,330	\$ 52,670
Field Verification of PDR Pipeline Alignment	75%	\$ 114,000	\$ 85,720	\$ 28,280
<i>Construction Phase Engineering</i>	<i>Upcoming</i>		\$ -	\$ -
<b>Land Acquisition</b>				
Acquire Options	91%	\$ 65,000	\$ 59,316	\$ 5,684
Acquire Easements	107%	\$ 1,211,000	\$ 1,292,364	\$ (81,364)
Acquire Real Estate	0%	\$ 100,000	\$ -	\$ 100,000
<b>Financial, Administration, Legal, Etc.</b>				
Financial Modeling/Cost Allocation	67%	\$ 1,521,047	\$ 1,025,316	\$ 495,731
Program Management Set Up	102%	\$ 553,000	\$ 561,429	\$ (8,429)
Program Management Information System	18%	\$ 293,100	\$ 53,646	\$ 239,454
Administration (communications, LAWA)	89%	\$ 550,000	\$ 487,904	\$ 62,096
Stakeholder Support	20%	\$ 398,830	\$ 81,469	\$ 317,361
Legal	46%	\$ 600,000	\$ 274,252	\$ 325,748
<i>Undesignated</i>	<i>0%</i>	<i>\$ 108,523</i>	<i>\$ -</i>	<i>\$ 108,523</i>
<b>Final Design, Easement &amp; Administration Subtotal</b>	<b>85%</b>	<b>\$ 15,212,490</b>	<b>\$ 12,976,482</b>	<b>\$ 2,236,008</b>
<b>Construction</b>				
<i>Pipeline Trenchless Construction</i>	<i>Upcoming</i>		\$ -	\$ -
<i>Discharge Construction</i>	<i>Upcoming</i>		\$ -	\$ -
<i>Intake Construction</i>	<i>Upcoming</i>		\$ -	\$ -
<b>Construction Subtotal</b>	<b>0%</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total Program Budget</b>	<b>93%</b>	<b>\$ 30,732,226</b>	<b>\$ 28,496,218</b>	<b>\$ 2,236,008</b>

2015/2017 State Appropriation \$12,359,000	\$ 12,359,000
2015/2017 LAWA Cost Share \$1,373,225	\$ 1,373,225
2015/2017 total	\$ 13,732,225
2017/2019 State Appropriation**	\$ 17,000,000
<b>RRVWSP Program Budget</b>	<b>\$ 30,732,225</b>
2017/2019 Appropriation Spent to Date	\$ 14,763,993
2017/2019 Committed Outstanding	\$ 2,127,486
<b>2017/2019 Not Committed</b>	<b>\$ 108,523</b>

\* not subject to local cost share

\*\* not including \$13 million for early out construction



## 2019 to 2021 Biennium Budget (Early-Out Projects with Minimum Additional Spend)

April 3, 2020

No.	Scope of Work	Feature	Task Orders Auth	19/21 Biennium Project Development Budget (mil \$)			Construction Budget per Biennia (mil \$) <sup>1,2,3</sup>				
				Total	State 75%	Local 25%	19/21 Biennium			21/23	Future
							Total	State 90%	Local 10%		
1.	<b>Financial, Administration, Legal, Insurance, Etc.</b>	Administration of program, including financial, legal, public communication, administrative, insurance advising, etc. expenditures	Apr-20	\$ 0.70	\$ 0.53	\$ 0.17	\$ -	\$ -	\$ -	\$ -	TBD
	Jan-21		\$ 0.70	\$ 0.53	\$ 0.17						
2.	<b>Early-Out Missouri River Intake Pumping Station Wetwell</b>	40' diameter x 65' deep concrete wetwell and initial site development for a 165-cfs pumping station at the Missouri River near Washburn, ND	Mar-20	\$ 0.06	\$ 0.04	\$ 0.02	\$ 3.97	\$ 3.58	\$ 0.39	\$ -	\$ -
	Jun-20										
3.	<b>Early-Out Transmission Pipeline East - Contract 5a</b>	1.5± miles of 72" open-cut pipeline, including 96" diameter tunnel under RRV&W Railroad and U.S. Highway 281 south of Carrington, ND	Mar-20	\$ 0.09	\$ 0.07	\$ 0.02	\$ 8.58	\$ 7.72	\$ 0.86	\$ -	\$ -
	Jul-20										
4.	<b>Early-Out Discharge Structure on the Sheyenne River</b>	145-cfs energy dissipation structure and outfall channel to Sheyenne River near Cooperstown, ND, including initial site development	Mar-20	\$ 0.06	\$ 0.05	\$ 0.01	\$ 1.89	\$ 1.70	\$ 0.19	\$ -	\$ -
	Jun-20										
5.	<b>Missouri River Intake Crib and Tunnel</b>	Marine geotechnical investigation; design of 8, 48" dia T-screens and crib in Missouri River and a 1,600' long 72" diameter tunnel from crib to wetwell	Mar-20	\$ 0.61	\$ 0.46	\$ 0.15	\$ -	\$ -	\$ -	\$ 26	\$ 49
	Jul-20		\$ 2.10	\$ 1.58	\$ 0.52						
	Jan-21		\$ 0.12	\$ 0.09	\$ 0.03						
6.	<b>Biota Water Plant and Main Pumping Station</b>	165-cfs water treatment facility; 165-cfs main pumping station and associated surge control building	Oct-20	\$ 0.25	\$ 0.19	\$ 0.06	\$ -	\$ -	\$ -	\$ -	\$ 111
7.	<b>Land Services<sup>4</sup></b>	Conversion of expiring options to easements; and intake and discharge real estate costs and legal support	Mar-20	\$ 0.20	\$ 0.15	\$ 0.05	\$ -	\$ -	\$ -	\$ -	\$ 10
	Jan-21		\$ 0.45	\$ 0.34	\$ 0.11						
8.	<b>Environmental Consulting</b>	Provide on-call consulting for wetlands, environmental, cultural, and archeological aspects during the biennium	Jan-21	\$ 0.10	\$ 0.08	\$ 0.02	\$ -	\$ -	\$ -	\$ -	\$ -
9.	<b>Transmission Pipeline East - Contract 5b</b>	26.5± miles of 72" open-cut pipeline, including associated 96" diameter tunnels under wetlands, highways, railroads, etc.	Oct-20	\$ 0.38	\$ 0.29	\$ 0.09	\$ -	\$ -	\$ -	\$ 163	\$ -
	Jan-21		\$ 0.10	\$ 0.08	\$ 0.02						
10.	<b>Program Management</b>	Overall project planning, mgmt, admin, scheduling, coordination, meeting prep/attendance, regulatory interface, etc. not included in individual TOs	20-May	\$ 0.44	\$ 0.33	\$ 0.11	\$ -	\$ -	\$ -	\$ -	\$ -
11.	<b>Reserve for Expected but Yet Undefined Projects</b>	A reserve providing flexibility to adapt to work plan changes during the biennium and for dealing with construction change orders	TBD	\$ 1.14	\$ 0.85	\$ 0.29	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL PROGRAM BUDGET</b>				<b>\$ 7.50</b>	<b>\$ 5.66</b>	<b>\$ 1.84</b>	<b>\$ 14.44</b>	<b>\$ 13.00</b>	<b>\$ 1.44</b>	<b>\$ 189</b>	<b>\$ 170</b>

- Notes:**
- Construction costs include management, engineering services during construction, inspection, field quality control, and construction.
  - Projects indicated for construction funding in a given biennium will be shovel ready for construction at the start of the biennium.
  - Future capital costs are escalated to an anticipated midpoint of construction at 3 percent per annum for the respective component with the RRVWSP expected to be finished by 2029. All future RRVWSP construction projects and costs are not shown.
  - Future land services costs are the amount likely to be paid to land owners for real estate, easements, crop damage and field obstructions. Costs for Segment 3 (McClusky Canal to Break Tanks) option to easement conversions and easements from scratch are not included in the estimates.

**RRVWSP Work Plan Update  
March 25, 2020**

**Goal**

Spring 2016	Completed Conceptual Design and Cost Estimate
Summer 2017	Completed Preliminary Design and Cost Estimate for pipeline and pump station(s)
2017 - 2019	Complete Phased Final Design and Cost Estimates
2019 - 2027	Phased Bidding and Construction

Total draft budget to complete Conceptual, Preliminary and Final designs is \$66 million. The ND legislature appropriated \$12.359 million for the RRVWSP for the 2015-2017 biennium. The conceptual design phase has been completed; therefore, no further updates will be included in this report. The ND legislature appropriated \$30 million for the RRVWSP for the 2017-2019 biennium. The ND legislature appropriated \$30 million for the RRVWSP for the 2019-2021 biennium.

**Preliminary Design**

The conceptual design was released in September 2016. The majority of the preliminary design has been completed; of the \$10 million cost estimate, approximately \$15,000 remains to be expended on the task orders. Moving forward with limited funds, it is cost effective to start project phasing. The Implementation Plan will provide a road map to move forward with items that must be completed first, which includes permit phasing, design phasing and construction phasing.

**Final Design**

The draft preliminary design was released early October 2017. Moving forward with limited funds, it is cost effective to start project phasing. Priority items to move forward first with final design and construction are discharge structure, 1.5 miles of pipeline and portions of the intake.

**1) Pipeline segment 28 miles** – This task order will begin final design on a portion of the RRVWSP and is the first of several pipeline design task orders that will be executed to complete the project. Given the current level of state and local funding allocated for the project’s design and construction, the length of the initial segment selected for final design and preparation of construction contract documents is approximately 28 miles. The general location of the 28-mile pipeline segment is in Foster and Wells Counties. The alignment and limits of the pipeline being designed under this task order are identified on the RRVWSP route overview map. This task order will deliver bid ready documents for this 28-mile segment. Estimated cost is \$3,840,000.

Status – A 1.5-mile pipeline segment draft final design has been submitted for review.

**2) Geotechnical** – This task order will allow engineers to drill supplemental borings along the Preliminary Design Report (PDR) pipeline alignment and discharge site and to complete laboratory testing of soil samples collected. These supplemental borings are necessary to characterize subsurface soil conditions not covered by the 2008 investigation. Relevant existing soils data from the 2008 investigation will be used to the maximum extent practical to support activities. Estimated cost is \$544,000.

Status – All borings and soil resistivity tests are complete. A draft Geotechnical Baseline Report and Corrosion Protection Design Guide has been developed.

**3) Sediment Transport Analysis** – This task order will provide information as requested by the North Dakota State Water Commission (SWC) to evaluate the Sovereign Lands Permit for the Missouri River intake, as well as support the overall design of the intake screens. Estimated cost is \$396,000.

Status – All field work was completed prior to the river freezing. A request was made to USACE for a river analysis model HEC-RAS. Developed 1D and 3D models and completed geomorphic analyses. The final Sediment Transport Report has been sent to the SWC for review. Complete

**4) Trenchless Crossings** – This task order is for final design of tunneled or trenchless crossings in the first 28-mile section of pipeline selected for final design. The general outcome of this task order will be the preparation of construction contract documents. Estimated cost is \$452,000.

Status – The 90% plans and specifications were ready February 2019.

**5) Discharge Site Structure** – This task order is for final design of the discharge structure. The general outcome of this task order will be the preparation of construction contract documents. Estimated cost is \$508,000.

Status – The 99% designs are available for review.

**6) Land Services** – This task order is for survey support services, easement and option acquisition for RRVWSP parcels. The RRVWSP pipeline is separated into segment 1, 2a and 2b, 3 and 4. Authorization has been approved to move forward with only segment 1. Estimated cost for segment 1 is \$556,446. A second authorization was approved for segment 2a, 2b and 4. Estimated cost is \$1,232,839.

Status – Pipeline Segment 1 status; 99% easements signed. All letters to landowners asking for converting options to easements and asking for options have been sent. The appraisal reports for the intake and discharge land have been received.

**7) Drone Aerial Coverage** – This task order is for unmanned aircraft system services for the initial 28-mile pipeline corridor, discharge site and intake site. Oblique view videos will be captured and incorporated into the GIS database. Estimated cost is \$71,443.

Status – The intake, discharge and pipeline segment 1 have been completed.

**8) Missouri River Intake** – This task order is for preliminary design of the Missouri River intake including a submerged crib, a tunnel from the crib to a pumping station on the river bank, and a pumping station, including utility extensions necessary and site civil design in order to develop the site. To support early out construction, final designs will be performed for the wet well, access road for construction vehicles and site drainage. Estimated cost is \$1,985,000.

Status – USACE has issued Nation Wide (NW) 12 permit for the intake. The Missouri River Intake Pump Station physical modeling is complete. The intake design passed all

Hydraulic Institute tests. The 99% design for the wet well is ready for review. Received USACE coverage under NW 6 and 33 for the marine boring investigations.

**9) NDPDES Permit Application Supplement** – This task order provides support documentation on how the proposed RRVWSP water treatment plant meets the established requirements of the Boundary Waters Treaty Act. Estimated cost is \$195,000.

Status – The NDPDES permit application was submitted to NDDOH on July 31, 2018. Received draft permit March 23, 2020, which has a 60-day comment period.

**10) Value Engineering** – HDR was selected to complete a value engineering study on the RRVWSP. Estimated cost is \$198,539.

Status – The value engineering study workshop was held September 10-14. The draft report was issued on September 28, and the final report was submitted January 1, 2019.

**11) Value Engineering Assistance** – This task order provides Black and Veatch support services to the value engineering process. Estimated cost is \$64,000.

**12) StateMod Amendment No. 3** – This task order provides support to respond to GDCD, LAWA, stakeholder and SWC requests for additional analysis. Estimated cost is \$193,428.

**13) Field Verification of PDR Pipeline Alignment** - This task order provides support services to field verify 139 miles of the PDR alignment not currently under design. Estimated cost is \$164,000.

**14) Transmission Pipeline-East Bidding Assistance** – This task order allows engineer to assist Garrison Diversion with public advertisement and bidding for construction of an early out pipeline project named Contract 5a falling under the Transmission Pipeline-East segment of the 167-mile RRVWSP. Estimated cost \$86,000.

**15) Discharge Structure & Site Development Bidding Assistance** – This task order allows engineer to assist Garrison Diversion with public advertisement and bidding for construction of an early out discharge structure on the bank of the Sheyenne River. Estimated cost \$56,000.

**16) Missouri River Intake Pumping Station Wet Well & Site Development Bidding Assistance** - This task order allows engineer to assist Garrison Diversion with public advertisement and bidding for site development and construction of a pumping station wet well near the Missouri River. Estimated cost \$56,000.

**17) Missouri River Intake Geotechnical Investigation and Reporting** – This task order includes the planned tunnel borings along the tunnel alignment from the pump station to the crib in the Missouri River. Estimated cost \$608,000.

### **Financial Modeling & Stakeholder Outreach**

**1) Municipal Advisor** – Ernst & Young Infrastructure Advisors (EYIA) provides municipal advisory services for the RRVWSP. The overall objective is to develop a robust financial plan to finance the RRVWSP. The model will include construction schedule alternatives, capital debt structure options and ongoing operational and renewal costs. Estimated cost is \$508,872.

Status – EYIA has refined the financial models based on effective construction schedules and debt financing approaches. The financial model includes quantified market risks and various cost-share alternatives. This work is on hold until further direction is received from stakeholders/policymakers. EYIA's work is jointly occurring and being incorporated into modeling being completed by AE2S Nexus and Black & Veatch. The models are reviewed by the LAWA Financial Advisory Committee.

**2) Financial Modeling/Cost Allocation** – The task order is for AE2S Nexus to assist EYIA in development of the overall financial plan and use that plan as the basis for the cost allocation model for each participating system. Estimated cost is \$512,175.

Status – The cost allocation model was refined to include a tiered allocation structure, which considers how project users will benefit from the project by assessing water supply needs, as well as access to project water. Feasibility and ability to pay studies are being conducted for roughly ten systems - both large and small. This work is in conjunction with the work being completed by EYIA.

**3) Stakeholder Re-engagement** – This task order will provide support in meeting with each of the 35 systems that signed development agreements. The objective of each meeting is to obtain a signed Project Participation Agreement and Water Service Contract. Estimated cost is \$398,830.

Status – Reevaluating financial modeling and outreach.

## **Program**

**1) Program Management** – The overall RRVWSP is expected to spend \$21.94 million in the 2019-2021 biennium and potentially \$180 million or more the next biennium. The objective of this task order will support the development and maintenance of a variety of program management support tools to help successfully execute the project. The tools and processes are expected to be developed and implemented during this biennium and be ready to support a significantly increased program size in the following biennium. Estimated cost is \$491,000.

Status – Program management meeting #1 focused on all aspects of PM, PM #2 focused on the schedule, and other meetings were held developing PM tools and gaining knowledge about program delivery models. Draft Program Management Plan, Construction Management Plan and Design Guidance Manual have been submitted for review. A risk management was held focusing on short term risk to the project.

**2) Program Management Information System** – This task order will assist GDCD in making initial contact with vendors and to solicit formal submittals from those vendors to provide hardware, software and services. Estimated cost is \$43,100.

**3) Program Management 2019 to 2021** – This task order allows the engineer to assist Garrison Diversion in developing the RRVWSP program. Included items are ongoing calls and meetings to facilitate and support communication and coordination between Garrison Diversion staff and external stakeholders and continue to use previously developed tools to guide the program. Estimated cost \$436,000.

**2020 Budget Analysis**

For the period of January 1, 2020- March 31, 2020

<b>Income</b>	<b>2020 Budget</b>	<b>Actual as 03/31/2020</b>	<b>Balance of Budget</b>
Dues Income	\$ 31,500.00	\$ 30,350.00	\$ 1,150.00
Interest Income	\$ 75.00	\$ 17.96	\$ 57.04
Miscellaneous	\$ -	\$ -	\$ -
Cost Share/Development Agr.	\$ -	\$ -	\$ -
<b>Total Income</b>	<b>\$ 31,575.00</b>	<b>\$ 30,367.96</b>	<b>\$ 1,207.04</b>
<b>Expenses</b>			
Dues Expenses	\$ 1,290.00	\$ 1,000.00	\$ 290.00
Accounting	\$ 9,000.00	\$ 109.42	\$ 8,890.58
Directors Expense	\$ 500.00	\$ -	\$ 500.00
Insurance	\$ 550.00	\$ -	\$ 550.00
Service Fees	\$ -	\$ -	\$ -
Engineering	\$ -	\$ -	\$ -
Adm/Legal/Financial	\$ 111,500.00	\$ 8,467.50	\$ 103,032.50
<b>Total Expenses</b>	<b>\$ 122,840.00</b>	<b>\$ 9,576.92</b>	<b>\$ 113,263.08</b>
<b>Net Income (Loss)</b>	<b>\$ (91,265.00)</b>	<b>\$ 20,791.04</b>	<b>\$ (112,056.04)</b>

**Account Activity**

Beg. Bank Balance 1-1-2020		\$ 712,567.63
Income Received		\$ 30,367.96
<b>Total Funds Available</b>		<b>\$ 742,935.59</b>
#1159 ND Water Coalition	\$ 1,000.00	
#1160 Ohnstad Twichell P.C	\$ 2,747.50	
Deluxe-Bank Deposit Slips	\$ 109.42	
#1161 Ohnstad Twichell P.C	\$ 5,720.00	
<b>Total Expenses</b>	<b>\$ 9,576.92</b>	
<b>Ending Bank Balance</b>		<b>\$ 733,358.67</b>