

**LAKE AGASSIZ WATER AUTHORITY**

**BOARD OF DIRECTORS**

**Holiday Inn  
Fargo, North Dakota  
March 16, 2018**

A meeting of the Lake Agassiz Water Authority (LAWA) board of directors was held at the Holiday Inn, Fargo, North Dakota, on March 16, 2018. The meeting was called to order by Chair Mahoney at 11:30 a.m.

**MEMBERS PRESENT**

Chair Tim Mahoney  
Vice Chair Ken Vein  
Director LaVonne Althoff  
Director Rick Bigwood  
Director Dave Carlsrud  
Director John Hancock  
Director Mark Johnson  
Director Bob Keller  
Director Don Moen  
Director Keith Nilson  
Alternate Steve Metzger for Director Neil Fandrich  
Associate Member Don Bajampaa  
Associate Member Carol Siegert  
Secretary Duane DeKrey

**MEMBERS ABSENT**

Director Ralf Mehnert-Meland

**OTHERS PRESENT**

Staff members of the Garrison Diversion Conservancy District were present along with others. A copy of the registration sheet is attached to these minutes as Annex I.

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

**AGENDA**

**Motion by Director Althoff to approve the agenda as presented. Second by Alternate Metzger. Upon voice vote, motion carried.**

## **CONSIDERATION OF THE MINUTES**

**Motion by Director Bigwood to dispense with a reading of the January 19, 2018, board minutes and approve them as distributed. Second by Vice Chair Vein. Upon voice vote, motion carried.**

## **OFFICER REPORT**

Ken Vein, Vice Chairman, reported on meetings and activities he has attended and participated in regarding the Red River Valley Water Supply Project (RRVWSP) and LAWA since the last board meeting.

## **COMMITTEE REPORTS**

**Technical Advisory Committee** - - Kip Kovar, Deputy Program Manager, RRVWSP Engineering, reported that the LAWA Technical Advisory Committee met on January 31. At that time, they heard updates on the Preliminary Design Report (PDR), Pipeline Extension, North Dakota Pollutant Discharge Elimination System (NDPDES) Permit and the Water Treatment Plant. The committee reviewed the Upper Sheyenne River Analysis Task Order. Amendment No. 2 to the StateMod was also presented to the committee for its review and consideration.

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

**Central North Dakota Environmental Assessment** - - Tami Norgard, Vogel Law, provided an update on the Central North Dakota Environmental Assessment (EA). Reclamation is currently finishing their final revisions on the revised draft EA. A revised draft should be available next week for review.

**Upper Sheyenne River Analysis** - - Mr. Kovar gave a status report on the Upper Sheyenne River Analysis, reminding the board that the state engineer had requested that the feasibility, including the costs, be evaluated for an alternative discharge location about 190 river miles farther north and west of Lake Ashtabula. A draft technical memorandum has been prepared. Garrison Diversion representatives met with the State Water Commission to review the draft, and their comments have been received on the report.

**Work Plan Update** - - Mr. Kovar referred to the RRVWSP Work Plan Update dated February 26 and reviewed the approved task orders. A copy of the update is attached to these minutes as Annex II.

## **Task Orders**

**StateMod Amendment No. 2** - - Mr. Kovar provided a review of the StateMod Task Order and Amendment No. 1, explaining that the StateMod was the surface water hydraulic model used in evaluating and modeling the flow and pipeline size needed to fill the reservoir to ultimately meet all of the needs on the river system for the RRVWSP. The model was originally set up and run by the Bureau of Reclamation (Reclamation) during the Environmental Impact Statement (EIS) process.

Mr. Kovar said a number of difficulties were identified in the StateMod model. It was created to be very specific to the situation at the time of the EIS, and attempts to modify it are limited. He added in order to build a project of this size, the model must be accurate.

Additional work is needed in order to improve the StateMod, and Mr. Kovar referred to and reviewed Amendment No. 2. The objective of this amendment is to:

- A. Systematically address the existing StateMod model limitations,
- B. Assess the impact of those changes on the original 122 cubic feet per second (cfs) required for import flow,
- C. Run a revised StateMod model with the new user demands, and
- D. Perform a series of model optimizations and sensitivity analyses for import pipeline sizing.

Mr. Kovar reported that the LAWA Technical Advisory Committee was given an extensive report on the status of the StateMod at their meeting on January 31. The committee is recommending the board approve the amendment at a cost of \$207,965.

**Motion by Director Bigwood to approve Amendment No. 2 of the StateMod Task Order in the amount of \$207,965. Second by Director Althoff. Upon roll call vote, the following directors voted aye: Althoff, Bigwood, Carlsrud, Hancock, Johnson, Keller, Mahoney, Moen, Nilson and Vein. Alternates voting aye: Metzger. Those voting nay: none. Absent and not voting: Mehnert-Meland. Motion carried.**

**Missouri River Intake** - - Mr. Kovar presented and reviewed the Missouri River Intake Preliminary Design Task Order. This task order is for design of the Missouri River Intake (MRI) and Missouri River Intake Pumping Station (MRIPS) portion of the RRWSP. The intake and pumping station will be located approximately six miles southeast of Washburn on the eastern bank of the Missouri River.

**Motion by Director Nilson to approve the Intake Preliminary Design Task Order in the amount of \$1,985,000. Second by Director Johnson. Upon roll call vote, the following directors voted aye: Althoff, Bigwood, Carlsrud, Hancock, Johnson, Keller, Mahoney, Moen, Nilson and Vein. Alternates voting aye: Metzger. Those voting nay: none. Absent and not voting: Mehnert-Meland. Motion carried.**

**Program Management Update** - - Merri Mooridian, Deputy Program Manager, RRWSP Administration, referred to the table regarding the legislative contingencies from HB1020 and updated the board on the status of each of the project components. A copy of the table is attached to these minutes as Annex III.

### **Planning Level Budget**

Ms. Mooridian referred to and reviewed the Planning Level Budget dated February 28. Of the \$43.7 million estimated total program budget, \$5.3 million has been expended on Conceptual Design, \$9.3 million on Preliminary Design and \$773,000 on Final Design, Easement and Administration for a total of \$15.4 million. A copy of the budget is attached to these minutes as Annex IV.

## **FINANCIAL REPORT**

**2016 Audit Report** - - Ms. Mooridian referred to LAWA's 2016 Audit Report and reviewed the results with the board. She reminded the board that the decision was made to combine 2017 and 2018 into one audit.

**Motion by Director Althoff to accept the 2016 LAWA audit report. Second by Director Bigwood. Upon roll call vote, the following directors voted aye: Althoff, Bigwood, Carlsrud, Hancock, Johnson, Keller, Mahoney, Moen, Nilson and Vein. Alternates voting aye: Metzger. Those voting nay: none. Absent and not voting: Mehnert-Meland. Motion carried.**

**2018 Budget Analysis Statement** - - Ms. Mooridian referred to and reviewed the Budget Analysis statement for the period of January 31 to February 28, 2018, a copy which is attached to these minutes as Annex V.

Total income through February is \$27,456. Expenses are \$7,005. The total bank balance at the end of February was \$729,725.

**Motion by Director Hancock to approve the Budget Analysis Statement for the period of January 1, 2018, through February 28, 2018. Second by Director Nilson. Upon roll call vote, the following directors voted aye: Althoff, Bigwood, Carlsrud, Hancock, Johnson, Keller, Mahoney, Moen, Nilson and Vein. Alternates voting aye: Metzger. Those voting nay: none. Absent and not voting: Mehnert-Meland. Motion carried.**

**Bills Paid** - - Bills paid since the last board meeting are \$1,000 to the Water Coalition for membership dues and \$6,000 to EideBailly for auditing services.

**Summary of Dues and Cost Share Payments** - - Ms. Mooridian referred to the table showing membership dues and cost share payments received. Dues collected to date total \$27,450.

## **UNFINISHED BUSINESS**

**Contract Development/MOU** - - Ms. Norgard stated that she was asked to draft a Memorandum of Understanding (MOU) between LAWA and Garrison Diversion in terms of cooperating and working together, including provisions in regard to decision making. The draft is currently being circulated among some of the attorneys who represent LAWA cities and water systems. They will do an initial review of the document before it is presented to the LAWA board and its members.

Ms. Norgard added that there will be a time when LAWA will need its own attorney, and there are different options on how to pursue that. When it is time to have an actual contract between LAWA and Garrison Diversion for water supply and with each individual stakeholder, there will need to be an attorney to represent each of your interests.

**NEW BUSINESS**

**2019-2021 Biennium Request** - - Chair Mahoney said the legislative intent for RRWSP funding was \$150 million each biennium. He questioned whether the board wants to continue to go in that direction.

Following board discussion, the consensus was to stay with the \$150 million funding request.

**OTHER**

There being no further business to come before the committee, the meeting adjourned at 12:40 p.m.

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Timothy Mahoney, Chair

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Duane DeKrey, Secretary

REGISTRATION

LAWA Board Meeting  
Fargo, North Dakota  
March 16, 2018

NAME	ADDRESS
Kimberly Cook	GDOD
Steve Burian	AES
Todd Feland	City of GF
Bruce Grubb	City of Fargo
Geneva Kaiser	Jamestown - GDOD + SRWD
BRIAN JOHNSON	EGF WATER & LIGHT
Keith Myklesest	EGF WATER & LIGHT
Bill Schwandt	Moorhead Public Service
April Walker	A. Walker Consulting
Sgt Paul Anderson	Carrioux Diversified - Ransom
Lisa Schaefer	GDOD

## RRVWSP Work Plan Update February 26, 2018

### Goal

Spring 2016	Completed Conceptual Design and Cost Estimate
Summer 2017	Complete Preliminary Design and Cost Estimate for pipeline and pump station(s)
2017 - 2018	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.

### Preliminary Design

The conceptual design is complete and was released in September 2016. Preliminary design is underway, and it is estimated to cost \$10 million to complete the preliminary design on the entire project. 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 have to be completed first, which include permit phasing, design phasing, and construction phasing.

**1) Pipeline alignment McClusky to the split** – This pipeline segment from the McClusky Canal traversing east to the split is required for all options under the Implementation Plan. This segment, therefore, has the highest priority of all segments. Preliminary design items include field wetland boundaries, determining trenchless construction boundaries, utility identification, location of valves and blowoffs, and horizontal and vertical layout of pipeline. Estimated cost is \$2,800,000.

Status – Additional land access agreements and field services were required due to rerouting in some areas. Field services are complete. The first draft of the pipe profile has been completed. Air and vacuum protection, manways and blowoffs have been placed. Work is complete.

**2) Missouri River Conventional Intake/USACE Permit** – The Implementation Plan identified using a conventional intake near Washburn as a viable option for the RRVWSP. Conventional intake plans and drawings will be generated and submitted to the US Army Corps of Engineers (USACE) for approval. Work includes preliminary design of the intake and pump station, survey, river bathymetric survey, environmental and geotechnical information, and permit application. Estimated cost is \$1,000,000.

Status – Field work is complete, and draft intake drawings have been prepared for submittal to the USACE. The intake application was received by the USACE March 13, 2017. A preconstruction notification meeting was held May 3. The USACE letter received July 19, 2017, stated Section 408 is not applicable. USACE letter received July 31 requested a Biological Assessment (BA) associated with the intake be completed. Draft

BA was submitted October 11, 2017. The USACE requested informal consultation with USFWS. USFWS coordination is ongoing.

**3) Pipeline alignment Washburn to McClusky** – This pipeline segment from Washburn to the McClusky Canal is required for all Missouri River intake options. This segment, therefore, has a high priority. Preliminary design items include field wetland boundaries, determining trenchless construction boundaries, utility identification, location of valves and blowoffs, and horizontal and vertical layout of pipeline. Estimated cost is \$594,551.

Status – Additional land access agreements and field services were required due to rerouting in some areas. Field services are complete. The first draft of the pipe profile has been completed. Air and vacuum protection, manways and blowoffs have been placed. Work is complete.

**4) Pipeline alignment split to Baldhill Creek** – This pipeline segment from the split to Baldhill Creek is required for all Red River Valley delivery options under the Implementation Plan. This segment, therefore, has a high priority. Preliminary design items include field wetland boundaries, determining trenchless construction boundaries, utility identification, location of valves and blowoffs, and horizontal and vertical layout of pipeline. Estimated cost is \$574,783.

Status – Additional land access agreements and field services were required due to rerouting in some areas. Field services are complete. The first draft of the pipe profile has been completed. Air and vacuum protection, manways and blowoffs have been placed. Work is complete.

**5) Workflow Manager** – The overall objective of this task is to provide a robust Geographical Information System (GIS) that is a single source for all spatially related data with anytime access by team members, GDCCD, and other stakeholders. The GIS will contain parcels, rights-of-way, survey data, access agreements, landowner information, easements, and other pertinent data. Estimated cost is \$150,000.

Status – All software has been purchased. Three training classes on the software have been held. Data continues to be uploaded to the site. The site was activated September 9, 2016. Work is complete.

**6) Main Pumping Station, Pre-Treatment, Break Tank, Control Valve Structure, Hydraulics and Transient – Preliminary Engineering** – The RRVWSP conceptual design identified a number of alternatives for delivering Missouri River water to eastern and central North Dakota. Alternatives included various water sources, river intake facilities, pumping stations, water treatment plant locations, conveyance pipeline, and discharge locations. In general, work associated with this task order includes preliminary engineering design for the associated project elements identified below; site selection; optimization of the conceptual level design for the hydraulics and preliminary transient analysis; coordination of work associated with field services; and update opinion of probable construction costs for the project elements: Main pumping station, Pre-treatment, Break tank, and RRV control valve structure. The following assumptions were made: project capacity flow rate 165 cfs, water treatment plant location is Washburn, and discharge location would be Baldhill Creek. Estimated cost is \$997,267.



Status – Preliminary site selection for pre-sedimentation basin, water treatment plant, main pump station, hydraulic break tank, and control valve structure is nearly complete. Hydraulic analysis and facility layouts are complete.

**7) Aerial Photography and LiDAR Services** – To facilitate preliminary design, base mapping in the form of digital ortho-photographs, surface model, and plan features is needed for the pipeline corridor, approximately 162 miles in length. The most efficient method by which to obtain this large amount of data is through aerial photography and light imaging, detection, and ranging (LiDAR), supplemented by ground surveys. Estimated cost is \$259,984.

Status – The pipeline corridor has been flown, and data has been processed. Aerial photography and LiDAR products are being used for preliminary design.

**8) StateMod Water Supply Model** – GDCD has recently updated user demands and has obtained preliminary nominations from 35 cities and rural water systems across central and eastern North Dakota totaling 159.24 cfs. With these updated demands, an updated design basis is needed to support the sizing of the RRVWSP pipeline. The Bureau of Reclamation (BOR) used the StateMod water supply model to support the original RRVWSP during the EIS. The StateMod model is complex, using hundreds of diversions across eastern ND and western MN with different withdrawal points and water right priorities. This task order will develop a design basis to support the RRVWSP pipeline sizing, review existing StateMod files, regenerate a current understanding of how the model was constructed, and run the model so that the 2008 FEIS results can be duplicated. Estimated cost is \$103,100.

Status – StateMod files from BOR have been received. The model is running, and the original 2010 preferred alternative is being regenerated for calibration. A workshop was held May 26 to review model operation, assumptions and future recommendations. The 2016 user demands/nominations have been uploaded to the model, and return flows are being reviewed.

**9) Pipeline Extensions** – To date, the layout and estimated cost of transmission pipelines to provide water to the users without existing river access has not been developed. The purpose of this Task Order is to develop a conceptual plan and associated estimated costs for these users to access the Project. The plan is expected to include turnouts on the core pipeline for future connections, the extension of the core pipeline with smaller diameter pipelines into the additional service areas, and additional pump stations to convey the flow. Estimated cost is \$627,333.

Status – The first round of pipeline extension routes has been generated. User needs are being compared with pipeline sizing for each route. Coordination meetings were held with potential users. Comments on pipe size and routing scenarios were received. Extension routes were revised, and cost estimates were provided. Draft report is ready for review.

**10) Discharge Design** – This task order is for a permit level design for the discharge structure, including energy dissipation structure to reduce the energy in water as it exits the pipeline near the receiving water body and the concrete apron to convey the water into the receiving water body. Estimated cost is \$300,000.

Status – Potential Sheyenne River discharge sites were reviewed at the recommendation of the LAWA Technical Advisory Committee. A site has been selected,

and field data is being processed. ND Department of Health has indicated they will most likely require a ND Pollution Discharge Elimination System permit for the project. Preliminary work started on what the water treatment plant would be to achieve the permit. USACE indicated they have flowage easements for the potential discharge site and may have to be reviewed for 408 permission. Currently, a secondary site is being developed approximately 1,000 feet away to avoid 408 permission.

**11) Pipeline Amendment #1** - Preliminary design amendment #1 was required because of alignment changes: changing the discharge site from Baldhill Creek to the Sheyenne River, moving portions of the pipeline closer to roadways and section lines, and avoiding FWS easement boundaries. Amendment work will include field wetland boundaries, determining trenchless construction boundaries, utility identification, location of valves and blowoffs, and horizontal and vertical layout of pipeline. Estimated cost is \$920,648.

**12) Discharge Amendment #1** - This task order amendment is to include new work required to obtain a North Dakota Pollutant Discharge Elimination System (NDPDES) permit to discharge water to the Sheyenne River, including coordination with the NDDOH. Estimated cost is \$317,000.

**13) StateMod Amendment #1** – This amendment will include modifying the original model data, return flows and data input files, as well as run the new scenarios. Modifications were needed to run the model because of the limited documentation from the BOR. Estimated cost is \$111,736. The 2016 user demands/nominations and return flows have been uploaded to the model.

## **Final Design**

The draft preliminary design is almost complete and 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, trenchless crossings and portions of the intake.

**1) Pipeline segment 28 miles** – This task order will begin final design on a portion of the RRWSP 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 RRWSP route overview map. This task order will deliver bid ready documents for this 28-mile segment. Estimated cost is \$3,840,000.

Status – The engineering team held a kickoff meeting November 8 starting the final design. The team was in the field reviewing alignment and working with the geotechnical boring team. Letters have been sent to utility companies asking for facility locations and details where crossings might occur.

**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 – Letters to landowners informing them of the upcoming geotechnical work were sent October 17, 2017. Work started October 30, 2017. All borings and soil resistivity tests are complete.

**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.

**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.

**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.

**6) Land Services** – This task order is for survey support services, easement and option acquisition for RRWSP parcels. The RRWSP 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.

## **Financial**

**1) Financial Modeling/Cost Allocation** – Financial costs to the local users of the RRWSP under various funding methods, project implementation scenarios, and cost-share scenarios will need to be evaluated. Financing strategies will be generated from these scenarios. The task order will assist GDCD in this effort. Estimated cost is \$363,800.

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 systems. This work is in conjunction with the work being completed by Ernst & Young Infrastructure Advisors (EYIA).

**2) Municipal Advisor** – EYIA was selected through an RFP process to provide municipal advisory services for the RRWSP. In addition, Springsted will be retained on an as-needed basis for the issuance of bonds and related efforts. These firms have a fiduciary responsibility to GDCD. Estimated cost is \$374,835.

Status – EYIA is refining a financial model using capital spend rates based on different financing scenarios and construction periods. The financial modeling includes quantified

market risks, costs associated with continued project operations, maintenance and renewal for project long-term and recurring replacement assets. EYIA's work is jointly occurring and being incorporated into modeling being completed by AE2S and Black & Veatch. The models are reviewed by the LAWA Financial Advisory Committee.

## **Program**

**1) Program Management** – The overall RRWSP is expected to spend \$30 million in the 2017-2019 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.

## RED RIVER VALLEY WATER SUPPLY PROJECT LEGISLATIVE STIPULATIONS – HB 1020

### PRE-CONSTRUCTION REQUIREMENTS

SECTION	PROJECT COMPONENT	STATUS	DETAILS
8.1a	Alternative Selection	Completed	Missouri River to Sheyenne River
8.1a	Water Supply Needs	Completed	165 cfs
8.1a	Projected Project Costs	Completed	\$1.065 Billion
8.1a	Easement Acquisitions	In Progress	Options secured on 50% of route
8.1a	Environmental Regulation Compliance (Boundary Waters Treaty of 1909)	In Progress	Working with ND Department of Health
8.1a	Implementation Schedule	In Progress	Evaluating 10-17 year construction schedule
8.1b	Acquisition of State and Federal Permits	In Progress	Intake Permit (USACE), Discharge Permit (NDDH), Sovereign Lands Permit (SWC), Water Permit (SWC)
8.1c	Secure Water Source	In Progress	McClusky Canal and/or Missouri River Conventional Intake
8.1d	Prioritized Phase I Construction Features	In Progress	Intake, trenchless crossings, and discharge structure
8.1c	Funding Options Recommendation	In Progress	Developing financial model in partnership with state and local users
8.2	Phase I Construction Approval	Not Started	State Engineer and State Water Commission certify section 1 completed and budget section approval
8.3	Quarterly Progress Reports to Water Topics Committee	Ongoing	July 25, 2017, October 12, 2017, and February 21, 2018

Red River Valley Water Supply Project Planning Level Budget				
	Percent Complete	Current Estimate	Actual to 2-28-18	Outstanding Expenses
<b>Conceptual Design Subtotal</b>	<b>100%</b>	<b>\$ 5,303,998</b>	<b>\$ 5,303,998</b>	<b>\$ -</b>
<b>Preliminary Design</b>				
Missouri River Conventional Intake Design	100%	\$ 999,578	\$ 999,216	\$ 362
Pipeline Alignment McClusky to Split & Land Services (ROE)	98%	\$ 3,436,073	\$ 3,372,959	\$ 63,114
Pipeline Alignment Washburn-McClusky & Land Services (ROE)	100%	\$ 592,433	\$ 592,433	\$ -
Pipeline from Split to Baldhill Creek (RRV) Land Services (ROE)	100%	\$ 574,726	\$ 574,726	\$ -
Land Services (Aerial)	100%	\$ 259,694	\$ 259,694	\$ -
Main Pump Station and Break Tank	87%	\$ 997,267	\$ 862,753	\$ 134,514
StateMod (includes amendments 1 & 2)	52%	\$ 422,801	\$ 221,127	\$ 201,674
Pipeline Extensions	88%	\$ 627,333	\$ 551,332	\$ 76,001
Discharge Design (Sheyenne/Baldhill)	82%	\$ 617,000	\$ 506,508	\$ 110,492
Administration (cost & schedule, communications, LAWA)	89%	\$ 240,208	\$ 212,738	\$ 27,470
Legal	92%	\$ 375,000	\$ 343,981	\$ 31,019
Financial Modeling	88%	\$ 413,800	\$ 363,800	\$ 50,000
Municipal Advisor	100%	\$ 374,835	\$ 374,835	\$ -
Workflow Manager	96%	\$ 150,000	\$ 143,615	\$ 6,385
<b>Preliminary Design Subtotal</b>	<b>93%</b>	<b>\$ 10,080,748</b>	<b>\$ 9,379,717</b>	<b>\$ 701,031</b>
<b>Final Design</b>				
<b>Engineering</b>				
Pipeline Final Design - 28 miles	9%	\$ 3,840,000	\$ 332,924	\$ 3,507,076
Trenchless Final Design	5%	\$ 452,000	\$ 22,218	\$ 429,782
Discharge Final Design	3%	\$ 508,000	\$ 15,276	\$ 492,724
Land Services	6%	\$ 556,446	\$ 31,705	\$ 524,741
Geotechnical	19%	\$ 544,000	\$ 101,723	\$ 442,277
Sediment Transport	11%	\$ 396,000	\$ 44,564	\$ 351,436
Missouri River Intake Final Design	Upcoming	\$ 2,000,000	\$ -	\$ 2,000,000
Upper Sheyenne Discharge Analysis *	0%	\$ 36,723	\$ -	\$ 36,723
Alignment Drove Video	Upcoming	\$ 58,870	\$ -	\$ 58,870
<b>Easements &amp; Options</b>				
Exercise Existing Options	Upcoming	\$ 2,000,000	\$ -	\$ 2,000,000
Acquire New Options & Easements	Upcoming	\$ 1,250,000	\$ -	\$ 1,250,000
<b>Financial, Administration, Legal, Etc.</b>				
Financial Modeling/Cost Allocation	0%	\$ 1,021,047	\$ -	\$ 1,021,047
Program Management Set Up	46%	\$ 491,000	\$ 224,920	\$ 266,080
Administration (communications, LAWA)	0%	\$ 543,393	\$ -	\$ 543,393
Systems Outreach/Signups	Upcoming	\$ 550,000	\$ -	\$ 550,000
Legal	0%	\$ 600,000	\$ -	\$ 600,000
Undesignated	Upcoming	\$ -	\$ -	\$ -
<b>Final Design, Easement &amp; Administration Subtotal</b>	<b>5%</b>	<b>\$ 14,847,479</b>	<b>\$ 773,330</b>	<b>\$ 14,074,149</b>
<b>Construction</b>				
Pipeline Trenchless Construction	Upcoming	\$ 7,000,000	\$ -	\$ 7,000,000
Discharge Construction	Upcoming	\$ 2,000,000	\$ -	\$ 2,000,000
Intake Construction	Upcoming	\$ 4,000,000	\$ -	\$ 4,000,000
Construction Phase Engineering (Trenchless & Intake)	Upcoming	\$ 500,000	\$ -	\$ 500,000
<b>Construction Subtotal</b>	<b>0%</b>	<b>\$ 13,500,000</b>	<b>\$ -</b>	<b>\$ 13,500,000</b>
<b>Total Program Budget</b>	<b>35%</b>	<b>\$ 43,732,225</b>	<b>\$ 15,457,044</b>	<b>\$ 28,275,180</b>

2015/2017 State appropriation	\$ 12,359,000
2015/2017 LAWA Cost-share	\$ 1,373,225
2017/2019 State Appropriation	\$ 30,000,000
<b>RRVWSP Program Budget</b>	<b>\$ 43,732,225</b>
2017/2019 Spent to Date	\$ 1,724,819
2017/2019 Committed Outstanding	\$ 8,916,310
2017/2019 Not Committed	\$ 19,358,870



### 2018 Budget Analysis

For the period of January 1, 2018 - February 28, 2018

Income	2018 Budget	Actual as 02/28/2018	Balance of Budget
Dues Income	\$ 29,000.00	\$ 27,450.00	\$ 1,550.00
Interest Income	\$ 50.00	\$ 6.49	\$ 43.51
Miscellaneous	\$ -	\$ -	\$ -
Cost Share/Development Agr.	\$ 89,000.00	\$ -	\$ 89,000.00
<b>Total Income</b>	<b>\$ 118,050.00</b>	<b>\$ 27,456.49</b>	<b>\$ 90,593.51</b>

### Expenses

Dues Expenses	\$ 1,280.00	\$ 1,000.00	\$ 280.00
Accounting	\$ 6,500.00	\$ 6,000.00	\$ 500.00
Directors Expense	\$ 500.00	\$ -	\$ 500.00
Insurance	\$ 550.00	\$ -	\$ 550.00
Service Fees	\$ 66.00	\$ 5.50	\$ 60.50
Engineering	\$ -	\$ -	\$ -
Adm/Legal/Financial	\$ 53,500.00	\$ -	\$ 53,500.00
<b>Total Expenses</b>	<b>\$ 62,396.00</b>	<b>\$ 7,005.50</b>	<b>\$ 55,390.50</b>

### Account Activity

Beg. Bank Balance 1-1-18	\$ 709,274.57
Income Received	\$ 27,456.49
<b>Total Funds Available</b>	<b>\$ 736,731.06</b>
Service Fees	\$ 5.50
#1139 Water Coalition	\$ 1,000.00
#1140 EideBailly	\$ 6,000.00
<b>Total Expenses</b>	<b>\$ 7,005.50</b>
<b>Ending Bank Balance</b>	<b>\$ 729,725.56</b>