

The following minutes are in draft form subject to review and approval by the Lake Agassiz Water Authority Board of Directors at its next meeting.

17-01

## **LAKE AGASSIZ WATER AUTHORITY**

### **BOARD OF DIRECTORS**

**Ramada Plaza  
Fargo, North Dakota  
February 10, 2017**

A meeting of the Lake Agassiz Water Authority (LAWA) board of directors was held at the Ramada Plaza, Fargo, North Dakota, on February 10, 2017. The meeting was called to order by Chair Mahoney at 11:05 a.m.

#### **MEMBERS PRESENT**

Chair Tim Mahoney  
Vice Chair Ken Vein  
Director LaVonne Althoff  
Director Dave Carlsrud  
Director Mark Johnson  
Director Ralf Mehnert-Meland  
Director Keith Nilson  
Director Carol Siegert  
Alternate Gordon Johnson for Director Rick Bigwood  
Secretary Duane DeKrey

#### **MEMBERS ABSENT**

Director Clark Cronquist

#### **OTHERS PRESENT**

Staff members of the Garrison Diversion Conservancy District were present along with others. 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 Siegert to approve the meeting agenda. Second by Director Johnson. Upon voice vote, motion carried.**

#### **CONSIDERATION OF THE MINUTES**

**Motion by Alternate Johnson to dispense with a reading of the December 16, 2016, board minutes and approve them as distributed. Second by Director Althoff. Upon voice vote, motion carried.**

## **OFFICER AND COMMITTEE REPORTS**

Merri Mooridian, Secretary, Finance Committee, and Deputy Program Manager, RRVWSP Administration, reported that the Finance Committee met on January 25 to review and discuss the methodology for the cost allocation modeling.

Ms. Mooridian also reminded the board that at the time Ernst & Young was approved as the municipal advisors for the Red River Valley Water Supply Project (RRVWSP), there was an option included to initiate negotiations with Springsted for the issuance of bonds and any related consultation on an as-needed basis. She asked the board to authorize funding in an amount not to exceed \$50,000 to work with Springsted on the financial modeling.

**Motion by Director Nilson to approve utilizing Springsted's financial services for the Red River Valley Water Supply Project not to exceed \$50,000. Second by Director Mehnert-Meland. Upon roll call vote, the following directors voted aye: Althoff, Carlsrud, Johnson, Mahoney, Mehnert-Meland, Nilson, Siegert and Vein. Alternates voting aye: G. Johnson. Those voting nay: none. Absent and not voting: Cronquist. Motion carried.**

## **RRVWSP UPDATE**

**Work Plan Update** - - Kip Kovar, Deputy Program Manager, RRVWSP Engineering, referred to the RRVWSP Work Plan Update dated January 31. He stated that the conceptual design phase has been completed and went on to review the preliminary design phase of the project, including a status report of current task orders. A copy of the update is attached to these minutes as Annex II.

**Discharge Site** - - Mr. Kovar said Baldhill Creek has been studied as the discharge site; however, during the last LAWA Technical Advisory Committee (TAC) meeting there was discussion in regard to evaluating Baldhill Creek versus the Sheyenne River as the possible discharge site. Since then, the North Dakota Game and Fish Department has expressed their preference to be the Sheyenne River. The State Health Department also prefers the Sheyenne River.

Vice Chair Vein commented if two state agencies are suggesting that the Sheyenne River be used as the discharge location, it probably makes sense to do so. It is time to make a decision and move on.

Following board discussion, the following action was taken.

**Motion by Director Siegert authorizing the Technical Advisory Committee to review the Sheyenne River discharge option. Second by Director Mehnert-Meland. Upon roll call vote, the following directors voted aye: Althoff, Carlsrud, Johnson, Mahoney, Mehnert-Meland, Nilson, Siegert and Vein. Alternates voting aye: G. Johnson. Those voting nay: none. Absent and not voting: Cronquist. Motion carried.**

**Planning Level Budget** - - Ms. Mooridian referred to the planning level budget dated as of December 31, 2016, and reviewed the year-end cost estimates for each task order. The total spent is \$7.4 million. The total cost estimate is \$13.8 million. The amount remaining to be spent is \$6.3 million. A copy of the budget is attached to these minutes as Annex III.

Ms. Mooridian added that she received an update yesterday, and costs incurred through January 31, 2017, are at \$8.3 million.

**Presentation** - - Ms. Mooridian provided a PowerPoint presentation as a brief project overview, covering project history, funding requests and priorities, system overview, user commitments and 2015 to 2017 accomplishments.

### **2017 LEGISLATIVE SESSION**

**SB2269** - - Ms. Mooridian reported on the status of SB2269, which is the bill pertaining to the powers of the LAWA and funding for the RRVWSP. The purpose of the bill is to expand the LAWA into Central North Dakota, add two associate board members and allow the board to work with the public finance agency and any other legal financing sources.

**SB2270** - - Ms. Mooridian also reported on the status of SB2270. The first portion of the bill amends the public finance agency's code, giving LAWA and Garrison Diversion the ability to work with the public finance agency.

**Funding & Cost Share** - - Chair Mahoney reported on appropriations from the legislature, stating that the former governor had reduced funding for the RRVWSP to \$15 million, and the request had been for \$30 million.

Chair Mahoney added that we have been talking with the legislature about the importance of starting some construction on the project this biennium.

Tami Norgard, Vogel Law Firm, said the importance of starting construction is to make sure that the project can be started under current permitting and regulatory authority.

### **FINANCIAL REPORT**

**2016 Budget Analysis Statement** - - Ms. Mooridian referred to the Budget Analysis statement for the period of January 1 to December 31, 2016, a copy which is attached to these minutes as Annex IV.

Total income through December 2016 is \$162,886. Expenses are \$441,140. The total bank balance at year end is \$313,250.

**Motion by Director Althoff to accept the budget analysis statement for the period of January 1, 2016, to December 31, 2016. Second by Director Johnson. Upon roll call vote, the following directors voted aye: Althoff, Carlsrud, Johnson, Mahoney, Mehnert-Meland, Nilson, Siegert, and Vein. Alternates voting aye: G. Johnson. Those voting nay: none. Absent and not voting: Cronquist. Motion carried.**

Ms. Mooridian referred to a copy of the billing statement for \$166,727. This amount was paid to Garrison Diversion for LAWA's 10 percent cost share of the RRVWSP.

**2017 Budget Analysis Statement** - - Ms. Mooridian referred to the Budget Analysis statement for the period of January 1 to January 31, 2017, a copy which is attached to these minutes as Annex V.

Total income through January 2017 is \$100,970. Expenses are \$1,285. The total bank balance at month end is \$412,935.

**Motion by Director Nilson to accept the budget analysis statement for the period of January 1, 2017, to January 31, 2017. Second by G. Johnson. Upon roll call vote, the following directors voted aye: Althoff, Carlsrud, Johnson, Mahoney, Mehnert-Meland, Nilson, Siegert, and Vein. Alternates voting aye: G. Johnson. Those voting nay: none. Absent and not voting: Cronquist. Motion carried.**

Bills paid in January are for membership dues to the ND Water Coalition and ND Rural Water Systems Association.

**Summary of Dues and Cost Share Payments** - - Ms. Mooridian referred to the table showing membership dues paid and cost share payments received. Cost share payments submitted in 2016 total \$134,886. The amount collected to date for 2017 is \$250,448. A copy of the table is attached to these minutes as Annex VI.

**2017 Dues Letter** - - Ms. Mooridian referred to a copy of the draft letter requesting payment of 2017 membership dues. These letters, along with the dues statement, and the RRWSP brochure were mailed out to LAWA members this week.

**2017 Work Plan** - - Ms. Mooridian referred to the LAWA 2017 Work Plan and reviewed the work plan items with the board. A copy of the work plan is attached to these minutes as Annex VII.

**Motion by Director Johnson to approve the LAWA 2017 Work Plan. Second by Director Siegert. Upon roll call vote, the following directors voted aye: Althoff, Carlsrud, Johnson, Mahoney, Mehnert-Meland, Nilson, Siegert, and Vein. Alternates voting aye: G. Johnson. Those voting nay: none. Absent and not voting: Cronquist. Motion carried.**

**2017 Budget** - - Ms. Mooridian referred to the proposed LAWA 2017 Budget. Projected revenue for this year is \$1,227,050. Projected expenses are \$1,316,153. A copy of the budget is attached to these minutes as Annex VIII.

**Motion by Director Althoff to approve the LAWA 2017 Budget. Second by Director Nilson. Upon roll call vote, the following directors voted aye: Althoff, Carlsrud, Johnson, Mahoney, Mehnert-Meland, Nilson, Siegert, and Vein. Alternates voting aye: G. Johnson. Those voting nay: none. Absent and not voting: Cronquist. Motion carried.**

### **UNFINISHED BUSINESS**

**Board Election** - - Ms. Mooridian reported that the North Dakota Rural Water Systems Association elects their board members in even years at its annual meeting, which was to be held in December. That meeting was postponed due to a winter storm. The election will now take place at the EXPO next week. At that time, elections will also be held for LAWA board members.

**LAWA Audit** - - Ms. Mooridian informed the board that in previous years EideBailly has performed the LAWA audit, which has cost \$5,000-\$5,500. For the small amount of transactions that LAWA has, this is quite expensive. This has been brought up by the board so legal counsel has been asked to prepare a Request for Proposals (RFP) for the 2016 audit.

Ms. Mooridian asked if the board would like to have staff go ahead with the RFP or would they like to designate a committee to review the RFP and interview the applicants.

**Motion by Director Mehnert-Meland to authorize staff to interview applicants and select the firm to conduct LAWA's 2016 audit of financial statements. Second by Director Siegert. Upon roll call vote, the following directors voted aye: Althoff, Carlsrud, Johnson, Mahoney, Mehnert-Meland, Nilson, Siegert, and Vein. Alternates voting aye: G. Johnson. Those voting nay: none. Absent and not voting: Cronquist. Motion carried.**

### **NEW BUSINESS**

**Resolution of Appreciation** - - Ms. Mooridian announced that Clark Cronquist will not be seeking re-election to the LAWA board and referred to the resolution of appreciation for Director Cronquist recognizing him for his dedication to and efforts performed for ND Rural Water, National Rural Water and water in general. A copy of the resolution is attached to these minutes as Annex IX.

**Motion by Vice Chair Vein to approve the resolution of appreciation for Director Clark Cronquist. Second by Director Althoff. Upon voice vote, motion carried.**

### **OTHER**

There being no further business to come before the committee, the meeting adjourned at 12:30 p.m.

(SEAL)

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Timothy Mahoney, Chair

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Duane DeKrey, Secretary

REGISTRATION

LAWA Board Meeting  
Fargo, North Dakota  
February 10, 2017

| NAME              | ADDRESS                        |
|-------------------|--------------------------------|
| Kelly Klosterman  | GDCD                           |
| Dennis Maranowski | Wahpeton City                  |
| Randy Rapacz      | E.G.F. Water + Light Dept.     |
| Mike Tweed        | GDCD Eddy Co.                  |
| Geneva Kaiser     | GDCD Stutsman, St. Rural Water |
| Steve L. Burian   | AE2S                           |
| Bruce Arnub       | City of Fargo                  |
| Todd Feland       | City of Grand Forks            |
| Al Grassie        | City of Grand Forks            |
| Kris Knutson      | Moorhead Public Service        |
| Bill Schwandt     | " " "                          |
| Jerry Blomeke     | Cass RW District               |
| Joe Zauner        | American Pipe                  |
| Dave Piepkor      | City of Fergus                 |
| Patrick Ferisak   | ND SWC                         |
| Lisa Schaper      | GDCD                           |
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## RRVWSP Work Plan Update January 31, 2017

### Goal

|             |  |
|-------------|--|
| Spring 2016 | Complete Conceptual Design and Cost Estimate                                   |
| Spring 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 this past session.

### Conceptual Design

**1) Missouri River Intake Investigation Task Order** – A Missouri River bank filtration intake near Washburn is proposed to reduce the amount of federal permits for the RRVWSP. Results of two previous studies indicated only the Washburn area may support 122 cfs and recommended further study of up to four sites. Work includes well pumping tests to determine yield of horizontal collector wells at the sites and the recommended number and spacing of the horizontal collector wells at each site. The previous work was contracted through the SWC and CH2M Hill. The work in this task order was contracted through GDCD and CH2M Hill. Cost of the work is \$1,306,790.

Status – All field work has been completed. The final report is complete and was presented to the LAWA Technical Advisory Committee on January 22.

Results suggest that the desired RRVWSP intake capacity of 122 cfs may be achievable through bank filtration intakes at multiple sites. This would require 9-14 collector wells spread across four sites.

**2) Discharge System (Baldhill Creek Investigation) Task Order** – Utilizing the Baldhill Creek as a water conveyance to Lake Ashtabula could eliminate the need for 13 miles of pipeline and provide a savings of \$40 million. Studies include creek capacity and the interaction of Baldhill Creek with groundwater aquifers and impacts, if any, to adjacent lands. Estimated cost is \$806,000.

Status –Monitoring equipment has been installed for year 2016. A draft report was provided in early April. The draft report documented that the creek can contain the additional flow, but up to 15 cfs could be lost to infiltration and evaporation.

**3) Pipeline Alignment Task Order** - The original RRVWSP alignment went from the McClusky Canal to Lake Ashtabula; however, the intake will now be moved to the Missouri River near Washburn. An alignment needs to be established from Washburn to Highway 200 connecting to the original alignment. Also, the original alignment needs to be refined to minimize permitting. Estimated cost is \$960,000.

Status – A draft report with a proposed alignment and cost estimate was released in early March. The alignment has been reviewed by GDCD and LAWA and was submitted to the USCOE for jurisdictional determination.

**4) Hydraulic and Pump System Task Order** – The intake site has moved from the McClusky Canal to the Missouri River near Washburn, including a new segment of pipeline connecting the two. This task order will build on existing data and expand and refine the hydraulic operational characteristics of the pump stations and control facilities required to successfully operate the RRWSP. The specific goals will be to provide an updated hydraulic analysis of the entire project, a conceptual layout of pumping facilities and a conceptual level cost estimate of those pumping facilities. Estimated cost is \$480,000.

Status –The team discussed a range of pumping flows, placement of a water treatment plant, closed system versus open system using break tank and hydraulic differences with each option. The draft report showing a conceptual design for the hydraulic structures and a cost estimate for the hydraulic structures was released in April.

**5) Horizontal Collector Well Conceptual Design Task Order** – The information collected from the Missouri River intake studies will be used to develop conceptual design and cost estimates. Estimated cost is \$400,000.

Status – Four sites have been identified with potential hydrogeology. It is estimated that 9 to 14 collector wells would be required to achieve the desired capacity spread across the four sites. An additional 30 miles of pipe will be required to manifold the collector well sites together. Efforts have started to develop a conceptual design for each of the collector wells. The horizontal alignment for the piping to each collector well has been established, as have the initial pump sizes for each collector well. A draft report will be released in mid-April. No further work is recommended at this time related to the collector wells.

Continued work under this task order will be moving forward with a conventional intake conceptual design as recommended by the draft implementation plan.

**6) Land Services Task Order** – The original RRWSP alignment went from the McClusky Canal to Lake Ashtabula; however, the intake will now be moved to the Missouri River near Washburn. An alignment needs to be established from Washburn to Highway 200 connecting to the original alignment. This task order will prepare ROW data and documents for acquiring new easements. Estimated cost is \$470,000.

Status – The task order is being revised to reflect the implementation plan, and work is underway.

**7) Needs Assessment Task Order** – The capacity of the federal RRWSP was 122 cfs. Staff began updating potential users of the current State proposed project. Water users in the LAWA service area are being asked to review their needs and then nominate for those needs, through a development agreement, which will, in turn, determine the appropriate size of the pipeline. Furthermore, systems along the pipeline route in Central North Dakota are being canvassed to see if there is a need to service those systems from the State project. The task order will assist GDCD staff in this effort. Estimated cost is \$445,000.

Status – A list of potential users was generated, and letters or email requests were sent to systems requesting a meeting to discuss their potential participation in the project. RRWSP information pieces were developed, and for each system, water usage, population projections (if available) and a nomination worksheet were generated for use in the system meetings. The meetings are underway. To date, roughly 125+ meetings



have taken place with roughly 60 systems. To date, 35 systems, some of which are regional nominations, have nominated a total of 159.23 cfs. Since the late-comer fee is now in effect (November 15, 2016), additional signups are not anticipated.

**8) Water Treatment Plant Analysis Task Order** – The federally proposed WTP used pre-treatment, filtration and disinfection processes located near the McClusky Canal. The State project will be using Missouri River water either through a horizontal collector well near Washburn or a conventional intake near Washburn. The location and level of treatment needs to be reviewed. A range of treatment processes will be developed to complement the RRVWSP Concept design and estimate. Estimated cost is \$438,000.

Status –The Bismarck collector well data and the results from the bank filtration study are being used to establish expected conditions in the source water. Overall treatment goals have been drafted that are consistent with the Boundary Waters Treaty. Alternative treatment processes are being developed to deal with a wide range of goals. Depending on the source of water (river or HCW), processes included are 1) pre-sedimentation with no treatment, 2) pre-sedimentation with chlorination/dechlorination, 3) pre-sedimentation, chlorination/dechlorination with UV, and 4) filtration, sedimentation, chlorination/dechlorination and UV.

**9) Implementation Plan** – The report will include project costs, operation and maintenance costs, construction schedule, review regulatory issues, and discuss how to implement the project in phases. Estimated cost is \$190,000.

Status – Ongoing

### **Preliminary Design**

The conceptual design is complete and was released in September. Engineering teams are ready to start the preliminary design phase. 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 – Land access agreements are being gathered to allow field work. Field services are being coordinated and scheduled with landowners and field crews. Approximately 80% complete.

**2) Missouri River Conventional Intake/COE 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 COE 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 USCOE.

**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 - Land access agreements are being gathered to complete field work. Field services are being coordinated and scheduled with landowners and field crews. Field work is approximately 80% 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 - Land access agreements are being gathered to complete field work. Field services are being coordinated and scheduled with landowners and field crews. Field work is approximately 80% complete.

Team meetings have been held with EYIA to bring them up to speed on the RRVWSP, to discuss their scope of work and how their deliverable will integrate with the financial modeling team's deliverables.

**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 is being uploaded to the site. The site was activated September 9.

**6) Main Pumping Station, Pre-Treatment, Break Tank, Control Valve Structure, Hydraulics and Transient – Preliminary Engineering** – The Red River Valley Water Supply Project 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, RRV control valve structure. The following assumptions were made: project capacity flow rate 150 cfs, water treatment plant location is Washburn, and discharge location is 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 is ongoing for the project.

**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 is being processed. Approximately 50% complete.

**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 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 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.

**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.

**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.

**11) Financial Modeling** – Financial impacts to the local users of the RRVWSP under various funding levels, 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 is being refined to include a tiered allocation structure which considers how project users will benefit from the project by assessing both water supply needs, as well as access to project water. Initial evaluations of project financing mechanisms and local debt options are taking place. In addition to a detailed review and incorporation of project capital costs into the overall financial planning effort, costs

associated with continued project operations, maintenance, and renewal for project long-term and recurring replacement assets are being developed and analyzed.

**12) Municipal Advisor** – Ernst & Young Infrastructure Advisors (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 developing a financing model using capital expenditures spend rates based on a sampling of appropriations. In addition, they are developing a summary of potential financing options available to fund construction of the Project. EYIA's work is jointly occurring and being incorporated into the financial modeling being completed by AE2S and B&V. The models will be reviewed by the LAWA Financial Advisory Committee.

| <b>Red River Valley Water Supply Project</b>                    |                                    |                      |                       |
|---|------------------------------------|----------------------|-----------------------|
| <b>Planning Level Budget</b>                                    |                                    |                      |                       |
| <b>December 31, 2016</b>  |                                    |                      |                       |
|   | <b>July 2015 through June 2017</b> |                      |                       |
|   | <b>Current Estimate</b>            | <b>Actual</b>        |                       |
|   |                                    | <b>July 2015 -</b>   | <b>Jan.-June 2017</b> |
|   |                                    | <b>December 2016</b> |                       |
|   | <b>% Complete</b>                  |                      |                       |
| <b>Conceptual Engineering (July 2015 - June 2016)</b>           |                                    |                      |                       |
| Missouri River Intake Investigation                             | 100%                               | \$ 1,141,058         | \$ -                  |
| Horizontal Collector Well                                       | 100%                               | \$ 400,564           | \$ -                  |
| Hydraulic and Pump System                                       | 100%                               | \$ 478,455           | \$ -                  |
| Pipeline Alignment  | 100%                               | \$ 958,000           | \$ -                  |
| Discharge System (Baldhill Creek)                               | 91%                                | \$ 805,988           | \$ 70,282             |
| Land Services   | 69%                                | \$ 469,980           | \$ 147,836            |
| Needs Assessment  | 100%                               | \$ 149,863           | \$ -                  |
| Water Treatment Plant Analysis                                  | 99%                                | \$ 438,731           | \$ 2,957              |
| Implementation Plan   | 80%                                | \$ 190,000           | \$ 38,031             |
| Sub-Total   | 95%                                | \$ 5,032,639         | \$ 259,106            |
| <b>Preliminary Engineering (July 2016 - June 2017)</b>          |                                    |                      |                       |
| Needs Assessment - amendment #1 & 2                             | 94%                                | \$ 294,604           | \$ 18,350             |
| Missouri River Conventional Intake Design                       | 47%                                | \$ 999,578           | \$ 526,409            |
| Pipeline Alignment McClusky to Split & Land Services (ROE)      | 37%                                | \$ 2,515,425         | \$ 1,578,229          |
| Pipeline Alignment Washburn-McClusky & Land Services (ROE)      | 36%                                | \$ 593,683           | \$ 379,612            |
| Pipeline from Split to Baldhill Creek (RRV) Land Services (ROE) | 24%                                | \$ 574,783           | \$ 435,930            |
| <i>Baldhill Creek Analysis Phase II</i>                         | On Hold                            |                      |                       |
| Land Services (Aerial)  | 27%                                | \$ 259,984           | \$ 191,055            |
| Main Pump Station and Break Tank                                | 16%                                | \$ 997,267           | \$ 842,408            |
| StateMod  | 0%                                 | \$ 103,100           | \$ 103,100            |
| Pipeline Extensions   | 0%                                 | \$ 627,333           | \$ 627,333            |
| <i>McClusky Canal Intake</i>                                    | On Hold                            |                      |                       |
| Discharge Design (Sheyenne/Baldhill)                            | 0%                                 | \$ 300,000           | \$ 300,000            |
| <i>Water Treatment Plant, does not include pilot</i>            | On Hold                            |                      |                       |
| Sub-Total   |                                    | \$ 7,265,757         | \$ 5,002,426          |
| <b>Administration, Legal and Financial</b>                      |                                    |                      |                       |
| Administration (cost & schedule, communications, LAWA)          |                                    | \$ 240,208           | \$ 240,208            |
| Legal   | 40%                                | \$ 420,000           | \$ 253,961            |
| Financial Modeling  | 45%                                | \$ 363,800           | \$ 201,581            |
| Municipal Advisor   | 0%                                 | \$ 374,835           | \$ 374,835            |
| Workflow Manager  | 70%                                | \$ 150,000           | \$ 45,312             |
| Sub-Total   |                                    | \$ 1,548,843         | \$ 1,115,897          |
| Total   | 54%                                | \$ 13,847,239        | \$ 6,377,429          |
| 90% State Cost Share  |                                    | \$ 12,462,515        | \$ 5,739,686          |
| 10% LAWA Cost Share   |                                    | \$ 1,384,724         | \$ 637,743            |

\* 2015-/2017 state appropriation \$12,359,000



**2016 Budget Analysis**  
For the period of January 1, 2016 - December 31, 2016

| <b>Income</b>               | <b>2016 Budget</b>   | <b>Actual as 12/31/16</b> | <b>Balance of Budget</b> |
|-----------------------------|----------------------|---------------------------|--------------------------|
| Dues Income                 | \$ 27,000.00         | \$ 27,350.00              | \$ (350.00)              |
| Interest Income             | \$ 30.00             | \$ 54.50                  | \$ (24.50)               |
| Miscellaneous               | \$ 50.00             | \$ 3.00                   | \$ 47.00                 |
| Cost Share/Development Agr. | \$ 500,000.00        | \$ 134,886.12             | \$ 365,113.88            |
| <b>Total Income</b>         | <b>\$ 527,080.00</b> | <b>\$ 162,293.62</b>      | <b>\$ 364,786.38</b>     |

**Expenses**

|                        |                      |                      |                      |
|------------------------|----------------------|----------------------|----------------------|
| Dues Expenses          | \$ 1,250.00          | \$ 1,000.00          | \$ 250.00            |
| Accounting             | \$ 5,500.00          | \$ 5,560.00          | \$ (60.00)           |
| Directors Expense      | \$ -                 | \$ -                 | \$ -                 |
| Insurance              | \$ 482.00            | \$ 502.00            | \$ (20.00)           |
| Service Fees           | \$ 66.00             | \$ 66.00             | \$ -                 |
| Water Quality Sampling | \$ 5,000.00          | \$ 5,388.33          | \$ (388.33)          |
| Engineering            | \$ 823,505.00        | \$ 420,134.69        | \$ 403,370.31        |
| Adm/Legal/Financial    | \$ 72,000.00         | \$ 8,489.07          | \$ 63,510.93         |
| <b>Total Expenses</b>  | <b>\$ 907,803.00</b> | <b>\$ 441,140.09</b> | <b>\$ 466,662.91</b> |

**Account Activity**

|                              |                      |                      |
|------------------------------|----------------------|----------------------|
| Beg. Bank Balance 1-1-16     |                      | \$ 592,096.98        |
| Income Received              |                      | \$ 162,293.62        |
| <b>Total Funds Available</b> |                      | <b>\$ 754,390.60</b> |
| Service Fees                 | \$ 66.00             |                      |
| #1119 Water Coalition        | \$ 1,000.00          |                      |
| #1120 EideBailly             | \$ 5,000.00          |                      |
| #1121 Garrison Diversion     | \$ 5,388.33          |                      |
| #1122 VOID                   | \$ -                 |                      |
| #1123 VOID                   | \$ -                 |                      |
| #1124 Garrison Diversion     | \$ 55,773.92         |                      |
| #1125 EideBailly             | \$ 560.00            |                      |
| #1126 Insure Forward         | \$ 502.00            |                      |
| #1127 Garrison Diversion     | \$ 138,210.69        |                      |
| #1128 Garrison Diversion     | \$ 67,911.38         |                      |
| #1129 Garrison Diversion     | \$ 166,727.77        |                      |
| <b>Total Expenses</b>        | <b>\$ 441,140.09</b> |                      |
| <b>Ending Bank Balance</b>   |                      | <b>\$ 313,250.51</b> |



**2017 Budget Analysis**  
For the period of January 1, 2017 - January 31, 2017

| <b>Income</b>               | <b>Proposed 2017</b>   |                          | <b>Balance of Budget</b> |
|-----------------------------|------------------------|--------------------------|--------------------------|
|                             | <b>Budget</b>          | <b>Actual as 1/31/17</b> |                          |
| Dues Income                 | \$ 27,000.00           | \$ -                     | \$ 27,000.00             |
| Interest Income             | \$ 50.00               | \$ 3.16                  | \$ 46.84                 |
| Miscellaneous               | \$ -                   | \$ -                     | \$ -                     |
| Cost Share/Development Agr. | \$ 1,200,000.00        | \$ 100,967.66            | \$ 1,099,032.34          |
| <b>Total Income</b>         | <b>\$ 1,227,050.00</b> | <b>\$ 100,970.82</b>     | <b>\$ 1,126,079.18</b>   |

| <b>Expenses</b>        |                        |                    |                        |
|------------------------|------------------------|--------------------|------------------------|
| Dues Expenses          | \$ 1,280.00            | \$ 1,280.00        | \$ -                   |
| Accounting             | \$ 5,000.00            | \$ -               | \$ 5,000.00            |
| Directors Expense      | \$ 100.00              | \$ -               | \$ 100.00              |
| Insurance              | \$ 550.00              | \$ -               | \$ 550.00              |
| Service Fees           | \$ 66.00               | \$ 5.50            | \$ 60.50               |
| Water Quality Sampling | \$ 5,500.00            | \$ -               | \$ 5,500.00            |
| Engineering            | \$ 1,233,657.00        | \$ -               | \$ 1,233,657.00        |
| Adm/Legal/Financial    | \$ 70,000.00           | \$ -               | \$ 70,000.00           |
| <b>Total Expenses</b>  | <b>\$ 1,316,153.00</b> | <b>\$ 1,285.50</b> | <b>\$ 1,314,867.50</b> |

| <b>Account Activity</b>      |                      |
|------------------------------|----------------------|
| Beg. Bank Balance 1-1-17     | \$ 313,250.51        |
| Income Received              | \$ 100,970.82        |
| <b>Total Funds Available</b> | <b>\$ 414,221.33</b> |
| Service Fees                 | \$ 5.50              |
| #1130 ND Water Coalition     | \$ 1,000.00          |
| #1131 ND Rural Water Systems | \$ 280.00            |

|                            |                      |
|----------------------------|----------------------|
| <b>Total Expenses</b>      | <b>\$ 1,285.50</b>   |
| <b>Ending Bank Balance</b> | <b>\$ 412,935.83</b> |



LAKE AGASSIZ  
WATER AUTHORITY

| Name                     | 2010<br>Dues | 2011<br>Dues | 2012<br>Dues | 2013<br>Dues | 2014<br>Dues | 2014<br>Cost Share | 2015<br>Dues | 2016<br>Dues | 2016<br>Cost Share | 2017<br>Dues | 2017<br>Cost Share |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|--------------|--------------------|--------------|--------------------|
| City of Aneta            |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Argusville       |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Binford          | \$100.00     | \$100.00     | \$100.00     | \$ 100.00    | \$ 100.00    |                    |              | \$100.00     |                    |              |                    |
| City of Briarwood        | \$100.00     | \$100.00     | \$100.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Buffalo          | \$100.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    |              |              |                    |              |                    |
| City of Buxton           |              |              |              |              |              |                    |              |              | \$21,982.50        |              |                    |
| City of Carrington       |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Casselton        | \$250.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Clifford         | \$100.00     | \$100.00     | \$100.00     | \$100.00     | \$100.00     |                    | \$100.00     | \$100.00     |                    |              |                    |
| City of Colfax           | \$100.00     | \$100.00     | \$100.00     | \$ 100.00    | \$ 100.00    |                    | \$100.00     | \$100.00     |                    |              |                    |
| City of Cooperstown      | \$250.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              | \$1,758.60         |
| City of Davenport        | \$100.00     | \$100.00     | \$100.00     | \$ 100.00    | \$ 100.00    |                    | \$100.00     | \$100.00     |                    |              | \$8,793.00         |
| Devils Lake              |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Drayton          |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of East Grand Forks | \$2,000.00   | \$5,315.00   | \$2,000.00   | \$ 2,000.00  | \$ 2,000.00  | \$ 19,444.00       | \$2,000.00   | \$2,000.00   |                    |              | \$18,465.30        |
| City of Emerald          | \$250.00     |              |              |              |              |                    |              |              |                    |              |                    |
| City of Enderlin         |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Fairmount        |              |              |              |              |              |                    | \$250.00     |              |                    |              |                    |
| City of Fargo            | \$4,000.00   | \$85,547.00  | \$4,000.00   | \$ 4,000.00  | \$ 4,000.00  | \$ 475,000.00      | \$4,000.00   | \$4,000.00   |                    |              |                    |
| City of Forman           |              | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     | \$89.73            |              |                    |
| City of Galesburg        |              |              |              | \$ 100.00    | \$ 100.00    |                    | \$100.00     | \$100.00     |                    |              |                    |
| City of Gilby            |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Grafton          | \$2,000.00   | \$2,000.00   | \$2,000.00   | \$ 2,000.00  | \$ 2,000.00  |                    | \$2,000.00   | \$2,000.00   |                    |              | \$17,586.00        |
| City of Grand Forks      | \$4,000.00   | \$29,525.00  | \$4,000.00   | \$ 4,000.00  | \$ 4,000.00  | \$ 206,481.00      | \$4,000.00   | \$4,000.00   |                    |              |                    |
| City of Grandin          | \$100.00     | \$100.00     | \$100.00     | \$ 100.00    | \$ 100.00    |                    |              | \$100.00     |                    |              |                    |
| City of Gwinner          | \$250.00     | \$100.00     |              | \$ 250.00    | \$ 250.00    | \$ 1,640.00        |              |              |                    |              |                    |
| City of Havana           | \$100.00     | \$100.00     |              |              |              |                    |              |              |                    |              |                    |
| City of Hillsboro        |              |              |              |              |              |                    | \$250.00     | \$250.00     | \$4,396.20         |              |                    |
| City of Hope             | \$250.00     |              |              | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Horace           | \$250.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Hunter           | \$100.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Kindred          | \$250.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Langdon          | \$500.00     | \$500.00     | \$500.00     | \$ 500.00    | \$ 500.00    |                    | \$500.00     | \$500.00     | \$1,758.60         |              |                    |
| City of Larimore         |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Lisbon           | \$250.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     | \$2,901.69         |              |                    |
| City of Mantador         |              |              |              |              |              |                    |              |              |                    |              |                    |
| City of Marvel           |              | \$100.00     |              |              | \$ 100.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Mapleton         | \$250.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    |                    | \$250.00     | \$250.00     |                    |              |                    |
| City of Mayville         | \$250.00     | \$250.00     | \$250.00     | \$ 250.00    | \$ 250.00    | \$ 2,778.00        | \$250.00     | \$250.00     | \$4,396.50         |              |                    |
| City of McVie            |              |              |              |              |              |                    |              |              | \$879.30           |              |                    |





**Lake Agassiz Water Authority  
2017 Draft Work Plan**

1. Refine Red River Valley Water Supply Project Cost Allocation Model
2. Complete Conceptual Design of Pipeline Extensions
3. Finalize Baldhill Creek Investigation
4. Complete Preliminary Design
  - a. Missouri River Conventional Intake
  - b. Pipeline Alignment McClusky to Split & Land Services (Right of Entry)
  - c. Pipeline Alignment Washburn-McClusky & Land Services (Right of Entry)
  - d. Pipeline from Split to Baldhill Creek (RRV) Land Services (Right of Entry )
  - e. Land Services (Aerial)
  - f. Main Pump Station and Break Tank
  - g. Discharge Design (Sheyenne/Baldhill)
5. Update State Mod
6. Utilize Workflow Manager
7. Develop, Refine and Present Financial Modeling Plan
8. Exercise existing easement options that will otherwise expire
9. Develop Project Participation Agreement
10. Initiate System Sign-ups
11. Support legislative funding plan for Red River Valley Water Supply Project
12. Conduct Water Quality Sampling



**LAKE AGASSIZ WATER AUTHORITY  
2017 PROPOSED BUDGET**

|  | <b>2016<br/>Actual</b> | <b>2017<br/>BUDGET</b> |
|--|------------------------|------------------------|
| Beginning Bank Balance                       | \$592,096.98           | \$313,250.51           |
| <b>REVENUES:</b>                             |                        |                        |
| Dues Income                                  | \$27,350.00            | \$27,000.00            |
| Interest Income                              | \$54.50                | \$50.00                |
| Cost Share Payments / Development Agreements | \$134,886.12           | \$1,200,000.00         |
| Miscellaneous                                | \$3.00                 | \$0.00                 |
| <b>Total Revenues</b>                        | <b>\$162,293.62</b>    | <b>\$1,227,050.00</b>  |
| <b>EXPENDITURES:</b>                         |                        |                        |
| Dues Expense                                 | \$1,000.00             | \$1,280.00             |
| Accounting                                   | \$5,560.00             | \$5,000.00             |
| Director Expense                             |                        | \$100.00               |
| Insurance                                    | \$502.00               | \$550.00               |
| Service Fees                                 | \$66.00                | \$66.00                |
| Water Quality Sampling                       | \$5,388.33             | \$5,500.00             |
| RRVWSP Work Plan                             |                        |                        |
| Engineering                                  | \$420,134.69           | \$1,233,657.00         |
| Administration/Legal/Financial               | \$8,489.07             | \$70,000.00            |
| <b>Total Expenses</b>                        | <b>\$441,140.09</b>    | <b>\$1,316,153.00</b>  |
| REVENUES OVER EXPENDITURES*                  | (\$278,846.47)         | (\$89,103.00)          |
| Ending Bank Balance                          | \$313,250.51           | \$224,147.51           |

## RESOLUTION

**WHEREAS, Clark Cronquist, served with distinction representing the Agassiz Water Users District as a member of the Lake Agassiz Water Authority since the organization's conception in February 2004 to 2017; and,**

**WHEREAS, Clark Cronquist, was a founding member of the Agassiz Water Users District, contributing to the growth and strength of the local rural water system; and,**

**WHEREAS, prior to the organization of the Lake Agassiz Water Authority, Clark Cronquist was a member of the Eastern Dakota Water Users; and,**

**WHEREAS, Clark Cronquist recognized the importance of rural water systems and was instrumental in forming the North Dakota Rural Water Systems Association, serving five years as their first president, was a member of the executive board since the association was created and also served as the association's national director until 2007. In addition, he helped establish the National Rural Water Association, where he also served as president, along with holding numerous other positions; and,**


**WHEREAS, Clark Cronquist recognized the need for the Red River Valley Water Supply Project and its importance to the state of North Dakota; and,**

**WHEREAS, Clark Cronquist has been an advocate for water interests in the Red River Valley showing endless support, perseverance and direction as a significant key leader and motivator in the Red River Valley Water Supply Project; and,**

**WHEREAS, in recognition of Clark's effort and dedication to grow and improve rural water systems on a local and national level, and for the pillar of strength he is for North Dakota water, Clark Cronquist was inducted into the North Dakota Water Users Hall of Fame in 1999.**

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of the Lake Agassiz Water Authority duly assembled in Fargo, in the state of North Dakota, on February 10, 2017, do hereby express our sincere appreciation for the dedication demonstrated by **Clark Cronquist** throughout his career.

  
\_\_\_\_\_  
Timothy Mahoney, Chair

  
\_\_\_\_\_  
Duane DeKrey, Secretary