

Wyoming Water Development Commission/Select Water Committee Joint Meeting
Wyoming Contractor's Association Regional Training Center
2220 Bryan Stock Trail, Casper, WY
November 7-9, 2018

Audio only links for the WORKSHOP can be found on our website: <http://wwdc.state.wy.us/>
Video streaming will be available for the MEETING Nov 8-9, 2018. <http://wwdc.state.wy.us/>
Meeting materials are available for download on the same website.

November 7, 2018 1:30 p.m. (Wednesday) Workshop Agenda:

1. Call to Order
2. Roll Call
3. Audience Introductions
4. Financial Status Report (Q)
5. Funding Applications – Preliminary Review (R)

November 8, 2018 8:30 a.m. (Thursday) Joint Meeting Agenda:

1. Call to Order
2. Roll Call & Recognition of members to establish quorum
3. Audience Introductions
4. Approval of Minutes (S)
 - August 17, 2018 SWC Meeting Minutes
 - October 5, 2018 WWDC Meeting Minutes
 - October 5, 2018 WWDC Executive Session Minutes
5. Closeout of Planning Projects (T)
 - Buffalo Groundwater Supply Study, Level II
 - Cody Canal Laterals Study, Level II
 - Green River/Rock Springs/Sweetwater County JPWB Wind River Zone Study, Level II
 - LaPrele Irrigation District Master Plan, Level I
 - Lusk Water Supply Study, Level II
 - New Fork Lake Dam Enlargement, Level II, Phase II
 - Rolling Hills Groundwater Supply Study, Level II
 - Wheatland Irrigation District Tunnel Dam Rehabilitation, Level II

6. Update of Level III Construction Projects (U)

- Glenrock Transmission Pipeline 2017
- Leiter Ditch Rehabilitation 2016
- Riverton Valley Rehabilitation 2013
- Sundance Tank 2018

7. 2019 Funding Recommendations – New Development (See attachment)

Account I, Level III, II, I

8. 2019 Funding Recommendations – Dam & Reservoir Program (See attachment)

Account III, Level III, II, I

November 9, 2018 8:30 a.m. (Friday) Joint Meeting Agenda:

9. 2019 Funding Recommendations – Rehabilitation Program (See attachment)

Account II, Level III, II, I

10. Consideration of Sponsor’s Contingency Fund (WDA II) request (V)

- Shoshone Irrigation District Rehabilitation 2017 project

11. SWC’s Consideration of Draft Legislation (W)

- 19LSO – 0120 – Senate confirmation of water appointments

12. Director’s Comments

- WWDC – Written Disclosure Forms – Due by January 1, 2019
- Update – Gillette Madison Pipeline Project

13. Future Meeting Schedule (XYZ)

- December 12-13, 2018 Cheyenne, WY – **WWDC** Final Funding Recommendations
- December 14, 2018 Cheyenne, WY – **SWC** Review draft Omnibus Water Bills
- March 14-15, 2019 Cheyenne, WY – **WWDC** Workshop/Meeting/Contract Approval
- March 2019, (TBD) Cheyenne, WY – **SWC** Contract Approval

14. Adjourn

Attachment to the Agenda

November 8, 2018 (Thurs) 8:30 a.m. Joint Meeting Agenda Attachment:

New Development Program – Account I

Level III Projects

- Buffalo Wells & Transmission 2019 (A)
- Clearmont Well Connection 2019 (B)
- Etna Storage Tank 2019 (C)
- GR/RS/SC JPWB Pump Station 2019 (D)
- Northwest Rural Water System Improvements 2019 (E)
- Rolling Hills Well No. 7 Connection 2019 (F)
- Weather Modification – Medicine Bow Mountains 2019-2020 (G)
- Weather Modification – Wind River Mountains 2019-2020 (H)

Level III Projects – Amendments

- Casper Zone 3 Improvements (I)
- Gillette Regional Extensions Phase IV 2018 (J)
- Gillette Regional Extensions 2017 (K)
- Lander Transmission Pipeline 2016 (L)
- Small Water Projects – New Development (M)
- Sponsor’s Contingency Fund – New Development (Mc)
- Legislative Revision for Repair and Maintenance Sinking Funds (N) (SAME TAB)

Level II Projects

- Lake DeSmet/Healy Reservoir Utilization (O)

Level I Projects

- Crook County Rural Water Supply Plan (P)
- Evanston Water Master Plan (Q)
- River Basin Planning – StreamStats - Phases III & IV (R)
- Salt Creek – Edgerton – Midwest Master Plan (S)
- Torrington Water Master Plan (T)

General

- Groundwater Grant Program (U)
- Transfer of Funds from Buffalo Bill Reservoir Account (V)
- UW Water Research Program (W)

Dams and Reservoirs Program – Account III

Level III Projects – Amendments

- Middle Piney Reservoir (Contingencies & Reservoir Account) (XYZ)
- Legislative Revision for Repair and Maintenance Sinking Funds (N) (SAME TAB)

Level II Projects

- Greybull Valley ID Storage Enlargement, Phase II (A2)
- New Fork Lake Dam Enlargement, Phase III (B2)

November 9, 2018 (Fri) 8:30 a.m. Joint Meeting Agenda Attachment:

Rehabilitation Program – Account II

Level III Projects

- Austin-Wall Reservoir Rehabilitation 2019 (C2)
- Big Horn Canal ID Wasteway Rehabilitation 2019 (D2)
- Bluff / Upper Bluff System Improvements 2019 (E2)
- Cody Canal ID Rehabilitation 2019 (F2)
- Deaver ID Rehabilitation 2019 (G2)
- Dry Creek ID Rehabilitation 2019 (H2)
- Eden Valley ID System Improvements 2019 (I2)
- Interstate Irrigation & Reservoir ID Rehabilitation 2019 (J2)
- Lakeview ID Carter Creek Siphon/Spillway 2019 (K2)
- Lovell ID Moncur Lateral Rehabilitation 2019 (L2)
- Midvale ID Rehabilitation 2019 (M2)
- Shoshone ID Rehabilitation 2019 (Mc2)
- Wheatland ID Tunnel Dam Rehabilitation 2019 (N2)
- Wind River Inter-Tribal Council Rehabilitation 2019 (O2)

Level III Projects – Amendments

- Cokeville Tri-Diversion Structure (P2)
- Eden Valley Farson Lateral Rehabilitation (Q2)
- Piney & Cruse Canal Piping (R2)
- Small Water Projects – Rehabilitation (S2)
- Sponsor's Contingency Fund – Rehabilitation (T2)
- Legislative Revision for Repair and Maintenance Sinking Funds (N) (SAME TAB)

Level II Projects

- Boulder ID Rehabilitation (U2)
- LaPrele ID Rehabilitation (V2)

Level I Projects

- Bluff / Upper Bluff IDs Master Plan (W2)

WYOMING WATER DEVELOPMENT COMMISSION

COMMISSIONERS

October 2018

Nick Bettas (D) (3/1/19) 1328 Uinta Drive Kemmerer, WY 83101 (H) 877-3402 (C) 679-4494	Water Division IV
David Evans (D) (3/1/19) 2837 Deming Blvd. Cheyenne, WY 82001 (W) 634-1525	Water Division I
Gerald Geis (R) (3/1/21) 600 Holly Avenue Worland, WY 82401 (H) 347-6443	Water Division III
Clinton W. Glick (R) (3/1/22) P.O. Box 1308 Fort Washakie, WY 82514 (C) 307-349-0103	Wind River Indian Reservation
Kellen Lancaster (R) (3/1/21) 287 Star West Drive Afton, WY 83110 (C) 887-1400	Water Division IV
Sheridan Little (R) (3/1/19) P.O. Box 165 Leiter, WY 82837 (C) 620-0923	Water Division II
Mike Purcell (R) (3/1/21) 317 Palm Springs Ave. Cheyenne, WY 82009 (H) 638-1118	Member-at-Large
Jeanette Sekan (D) (3/1/19) 150 Southfork Road Cody, WY 82414 (C) 899-3660	Water Division III
Larry Suchor (R) (3/1/21) 21 Spruce Street Pine Haven, WY 82721 (H) 756-9491	Water Division II
Rodney K. Wagner (R) (3/1/21) 3715 Road 86 Lingle, WY 82223 (H) 837-2786	Water Division I

WYOMING WATER DEVELOPMENT COMMISSION

COMMISSIONERS

Nick Bettas	Water Division IV
David Evans, Chairman	Water Division I
Gerald Geis	Water Division III
Clinton W. Glick	Wind River Indian Reservation
Kellen Lancaster, Secretary	Water Division IV
Sheridan Little	Water Division II
Mike Purcell	Member-at-Large
Jeanette Sekan	Water Division III
Larry Suchor, Vice-Chairman	Water Division II
Rodney Wagner	Water Division I

STAFF

Harry LaBonde	Director
Andrea Odell	Administrative/Fiscal Manager
Janet Belmonte	Accountant
Nancy Casner	Office Support Specialist

Barry Lawrence	Deputy Director – Planning
Kevin Boyce	Project Manager
Keith Clarey	Project Manager
Julie Gondzar	Project Manager
Dave Myer	Project Manager
Jodie Pavlica	Project Manager
Katie Talbott	Outreach Coordinator
Chace Tavelli	Project Manager

Jodee Pring	Supervisor-River Basin Planning
Peter Gill	Project Manager

Jason Mead	Deputy Director – Dams & Reservoirs
Andrew Linch	Project Manager
Tony Rutherford	Project Manager
Brian Smith	High Savery Dam Technician

Bryan Clerkin	Deputy Director – Construction
Bill Brewer	Project Manager
Keenan Hendon	Project Manager
Will Hensel	Project Manager
Ken Mitchell	Project Manager
Wade Verplancke	Project Manager

ADVISORS

Daniel Solish	Attorney General's Office
Pat Tyrrell	State Engineer
Greg Kerr	University of Wyoming
Shawn Reese	Wyoming Business Council

**SELECT WATER COMMITTEE
REVISED 10/16/17**

Senator Ogden Driskill (R)
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Water Development Account I
Preliminary Fiscal Projections as of 8/1/2018

Cash Balance 6/30/17		129,092,689
FY18 Revenues		
Taxes	19,297,500	
Interest	2,485,711	
Loans/Interest	5,675,308	
Other	342,378	
Total Revenues		<u>27,800,897</u>
FY18 Expenditures		
Total Expenditures		<u>(44,702,432)</u>
Cash Balance 6/30/18		112,191,154
Outstanding Commitments 7/1/18		
Active Appropriations	(180,301,066) *	
Expenditures Paid	68,135,487	
Total Commitments 7/1/18		<u>(112,165,579)</u>
Total Uncommitted Balance 7/1/18		<u>25,575</u>
FY19 Anticipated Revenues		
Taxes	19,300,000	
Interest	2,000,000	
Other	1,800,000	
Total FY19 Anticipated Revenues		<u>23,100,000</u>
FY20 Anticipated Revenues		
Taxes	19,300,000	
Interest	2,000,000	
Other	1,800,000	
Total FY20 Anticipated Revenues		<u>23,100,000</u>
Subtotal Anticipated Revenues		<u>46,200,000</u>
Balance Available for Appropriation		<u>46,225,575</u>

*Active Appropriations includes the funding for the Board of Control within the State Engineer's Office.

Water Development Account II
Preliminary Fiscal Projections as of 8/1/2018

Cash Balance 6/30/17		28,827,754
FY18 Revenues		
Taxes	3,255,000	
Interest	586,238	
Loans/Interest	<u>1,433,155</u>	
Total Revenues		5,274,393
FY18 Expenditures		
Total Expenditures		<u>(5,679,806)</u>
Cash Balance 6/30/18		28,422,341
Outstanding Commitments 7/1/18		
Active Appropriations	(45,220,201)	
Expenditures Paid	<u>16,561,136</u>	
Total Commitments 7/1/18		<u>(28,659,065)</u>
Total Uncommitted Balance 7/1/18		<u>(236,724)</u>
FY19 Anticipated Revenues		
Taxes	3,255,000	
Interest	400,000	
Loans/Interest	<u>1,000,000</u>	
Total FY19 Anticipated Revenues		4,655,000
FY20 Anticipated Revenues		
Taxes	3,255,000	
Interest	400,000	
Loans/Interest	<u>1,000,000</u>	
Total FY20 Anticipated Revenues		<u>4,655,000</u>
Subtotal Anticipated Revenues		<u>9,310,000</u>
Balance Available for Appropriation		<u><u>9,073,276</u></u>

Water Development Account III
Preliminary Fiscal Projections as of 8/1/2018

Cash Balance 6/30/17		172,518,624
FY18 Revenues		
Taxes	775,000	
Interest	<u>3,521,816</u>	
Total Revenues		4,296,816
FY18 Expenditures		
Total Expenditures		<u>(3,382,025)</u>
Cash Balance 6/30/18		173,433,415
Outstanding Commitments 7/1/18		
Active Appropriations	(129,947,026)	
Expenditures Paid	<u>7,361,886</u>	
Total Commitments 7/1/18		<u>(122,585,140)</u>
Total Uncommitted Balance 7/1/18		<u>50,848,275</u>
FY19 Anticipated Revenues		
Taxes	775,000	
Interest	<u>2,200,000</u>	
Total FY19 Anticipated Revenues		2,975,000
FY20 Anticipated Revenues		
Taxes	775,000	
Interest	<u>2,200,000</u>	
Total FY20 Anticipated Revenues		<u>2,975,000</u>
Subtotal Anticipated Revenues		<u>5,950,000</u>
Balance Available for Appropriation		<u>56,798,275</u>

2019 Session
 WWDC Recommendations
 New Development Program - WDA I

Tab	Item	Project Title	Priority	Requested Funding	Recommended Funding	Comments	Fund Balance
Level III Projects							
A	1	Buffalo Wells & Transmission 2019	2	\$ 1,238,160	\$ 1,238,160		
B	2	Clearmont Well Connection 2019	2	\$ 328,970	\$ 328,970	Include well purchase	
C	3	Etna Storage Tank 2019	4	\$ 1,001,650	\$ 710,200	250,000 gallon tank	
D	4	GR/RS/SC JPWB Pump Station 2019	3	\$ 7,497,300	\$ 7,497,300		
E	5	Northwest Rural Water System Improvements 2019	3	\$ 1,055,250	\$ 1,055,250		
F	6	Rolling Hills Well No. 7 Connection 2019	2	\$ 273,360	\$ 273,360	Include well purchase	
G	7	Weather Modification - Med Bow Mtns 2019-20	9	\$ 589,000	\$ 589,000		
H	8	Weather Modification - Wind River Mtns 2019-20	9	\$ 235,000	\$ 235,000		
		Subtotal		\$ 12,218,690	\$ 11,927,240		\$ 34,298,335
Level III Projects - Amendments							
I	9	Casper Zone 3 Improvements	3	\$ -	\$ -	1 year time extension	
J	10	Gillette Regional Extensions Phase IV 2018	3	\$ (296,810)	\$ (296,810)	Remove Legislative Amend.	
K	11	Gillette Regional Extensions 2017	3	\$ -	\$ -	Remove Legislative Amend.	
L	12	Lander Transmission Pipeline 2016	3	\$ 3,091,000	\$ -		
M	13	Small Water Projects - New Development		\$ 2,000,000	\$ 2,000,000		
Mc	14	Sponsor's Contingency Fund - New Development		\$ 1,000,000	\$ 1,000,000		
N	15	Legislative Revision for Repair & Maint Sinking Funds		\$ -	\$ -		
		Subtotal		\$ 5,794,190	\$ 2,703,190		\$ 31,595,145
Level II Projects							
O	16	Lake DeSmet/Healy Res. Utilization	6	\$ 268,000	\$ 268,000		
		Subtotal		\$ 268,000	\$ 268,000		\$ 31,327,145
Level I Projects							
P	17	Crook County Rural Water Supply Plan	8	\$ 250,000	\$ 250,000		
Q	18	Evanston Water Master Plan	8	\$ 126,000	\$ 126,000		
R	19	RBP - Streamstats - Phases III & IV	8	\$ 631,000	\$ 631,000		
S	20	Salt Creek-Edgerton-Midwest Master Plan	8	\$ 160,000	\$ 160,000		
T	21	Torrington Water Master Plan	8	\$ 174,000	\$ 174,000		
		Subtotal		\$ 1,341,000	\$ 1,341,000		\$ 29,986,145
General/Other							
U	22	Groundwater Grant Program	2	\$ 2,000,000	\$ 2,000,000		
V	23	Transfer of Funds from Buffalo Bill Reservoir Acct		\$ (5,500,000)	\$ (5,500,000)	Consider a transfer to WDA II	
W	24	UW Water Research Program		TBD	TBD		
		Subtotal		\$ (3,500,000)	\$ (3,500,000)		\$ 33,486,145
Total For All WDA I Projects				\$ 16,121,880	\$ 12,739,430		

2019 Session
 WWDC Recommendations
 Rehabilitation Program - WDA II

Tab	Item	Project Title	Priority	Requested Funding	Recommended Funding	Comments	Fund Balance
		Level III Projects					\$ 9,073,276
C2	1	Austin-Wall Reservoir Rehabilitation 2019	6	\$ 1,038,500	\$ -		
D2	2	Big Horn Canal ID Wasteway Rehabilitation 2019	1	\$ 960,000	\$ 960,000		
E2	3	Bluff / Upper Bluff System Improvements 2019	1	\$ 366,000	\$ 366,000		
F2	4	Cody Canal ID Rehabilitation 2019	2	\$ 344,000	\$ 344,000	Materials only grant	
G2	5	Deaver Irrigation District Rehabilitation 2019	2	\$ 424,000	\$ 424,000	Materials only grant	
H2	6	Dry Creek Irrigation District Rehabilitation 2019	3	\$ 1,628,000	\$ -	See Funding Note	
I2	7	Eden Valley ID System Improvements 2019	2	\$ 351,000	\$ -	See Funding Note	
J2	8	Interstate Irrigation & Reservoir ID Rehab 2019	1 & 2	\$ 6,031,340	\$ 417,100	Structure located in Utah	
K2	9	Lakeview ID Carter Creek Siphon/Spillway 2019	1 & 2	\$ 351,000	\$ 351,000		
L2	10	Lovell ID Moncur Lateral Rehabilitation 2019	2	\$ 1,670,000	\$ 1,670,000		
M2	11	Midvale Irrigation District Rehabilitation 2019	2	\$ 559,000	\$ 559,000	Materials only grant	
Mc2	12	Shoshone Irrigation District Rehabilitation 2019	1 & 2	\$ 181,000	\$ 181,000	Materials only grant	
N2	13	Wheatland ID Tunnel Dam Rehabilitation 2019	1	\$ 5,220,000	\$ 388,000	Design only	
O2	14	Wind River Inter-Tribal Council Rehab 2019	1 & 2	\$ 929,000	\$ 929,000		
		Subtotal		\$ 20,052,840	\$ 6,589,100		\$ 2,484,176
		Level III Projects - Amendments					
P2	15	Cokeville Tri-Diversion Structure	1	\$ 89,436	\$ 89,436		
Q2	16	Eden Valley Farson Lateral Rehabilitation	2	\$ 710,000	\$ 710,000		
R2	17	Piney & Cruse Canal Piping	2	\$ -	\$ -	3 year time extension	
S2	18	Small Water Projects - Rehabilitation	-	\$ 700,000	\$ 700,000		
T2	19	Sponsor's Contingency Fund - Rehabilitation	-	\$ 700,000	\$ 700,000		
N	20	Legislative Revision for Repair & Maint Sinking Funds	-	\$ -	\$ -		
		Subtotal		\$ 2,199,436	\$ 2,199,436		\$ 284,740
		Level II Projects					
U2	21	Boulder ID Rehabilitation	7	\$ 171,000	\$ -	See Funding Note	
V2	22	LaPrele ID Rehabilitation	7	\$ 290,000	\$ -	See Funding Note	
		Subtotal		\$ 461,000	\$ -		\$ 284,740
		Level I Projects					
W2	23	Bluff/Upper Bluff IDs Master Plan	8	\$ 123,000	\$ -	See Funding Note	
		Subtotal		\$ 123,000	\$ -		\$ 284,740
Total For All WDA II Projects				\$ 22,836,276	\$8,788,536		

Funding Note: This project would be recommended for funding if the transfer from the Buffalo Bill Reservoir Account is redirected from WDA I to WDAII

Draft Only
Approval Pending
**SUMMARY of
PROCEEDINGS**



SELECT WATER COMMITTEE

COMMITTEE MEETING INFORMATION

August 15-17, 2018 | 8:30 AM
Cam-Plex
1635 Reata Drive
Gillette, Wyoming

COMMITTEE MEMBERS PRESENT

Representative Hans Hunt, Chairman
Senator Ogden Driskill, Vice Chairman
Senator Liisa Anselmi-Dalton
Senator Eli Bebout
Senator Dan Dockstader
Senator Larry Hicks
Senator Curt Meier
Senator Glenn Moniz
Representative John Eklund
Representative Dan Laursen
Representative Jerry Paxton

COMMITTEE MEMBERS NOT PRESENT

Representative Stan Blake
Representative David Northrup

LEGISLATIVE SERVICE OFFICE STAFF

Josh Anderson, Senior Staff Attorney

OTHER LEGISLATORS PRESENT

Senator Michael Von Flatern

OTHERS PRESENT AT MEETING

Harry LaBonde, Director, Water Development Office

The Committee Meeting Summary of Proceedings (meeting minutes) is prepared by the Legislative Service Office (LSO) and is the official record of the proceedings of a legislative committee meeting. This document does not represent a transcript of the meeting; it is a digest of the meeting and provides a record of official actions taken by the Committee. All meeting materials and handouts provided to the Committee by the Legislative Service Office, public officials, lobbyists, and the public are on file at the Legislative Service Office and are part of the official record of the meeting. An index of these materials is provided at the end of this document and these materials are on file at the Legislative Service Office. For more information or to review meeting materials, please contact the Legislative Service Office at (307) 777-7881 or by e-mail at lso@wyoleg.gov. The Summary of Proceedings for each legislative committee meeting can be found on the Wyoming Legislature's website at www.wyoleg.gov.

Please refer to Appendix 1-02 to review the Committee Sign-in Sheet for a list of other individuals who attended the meeting.

EXECUTIVE SUMMARY

The Committee met for two days in Gillette. The Committee received a tour of water projects in Gillette and surrounding communities. The Committee heard updates on water projects from the Water Development Office. The Committee heard testimony on the Gillette-Madison water projects and concerns from private water well owners. The Committee discussed legislation related to water banking and voted to submit comments on a Forest Service project in the Medicine Bow National Forest.

CALL TO ORDER (8/17/2018)

Representative Hans Hunt called the meeting to order at 8:30 AM. The following sections summarize the Committee proceedings by topic. Please refer to Appendix 1-01 to review the Committee Meeting Agenda. Please refer to Appendix 1-03 for the meeting notebook, tabs referenced in the minutes refer to tabs of the meeting notebook.

APPROVAL OF MINUTES

Minutes from the 4/3/2018 and 6/15/2018 Committee meetings were approved with no changes.

SUMMER TOUR

On August 16, 2018 the Committee toured water projects in Gillette and surrounding areas:

- Bennor Connection Building
- Donkey Creek Pump Station
- Pine Ridge Disinfection Facility
- Madison Well, No. 13
- Cranston Property
- Keyhole Reservoir
- Sundance
- Pine Haven

CLOSEOUT OF PLANNING PROJECTS

Basin Planning: Environmental and Recreational Use Study

Ms. Jodee Pring of the Water Development Office presented the closeout memo for the river basin planning project for the Bear, Green and Wind-Bighorn River Basins. Tab N. The Commission voted to approve the closeout memo.

SMALL WATER PROJECT - REVISION OF PROJECT DESCRIPTION

Little Snake River Conservation District - Muddy Mountain Deep Creek Pasture Stock Ponds

Mr. LaBonde discussed a change in the description of a small water project. Tab O. He noted that the project is being changed from a stock pond to a stock well and stock tank, but the budget of the project remains the same. The Commission voted to approve the revised description of the project.

USGS/WWDC - JOINT FUNDING FOR STREAMSTATS

Ms. Pring explained that the agreement would provide for joint funding with the United States Geological Survey for water resource investigations using StreamStats. Tab P. The Commission voted to approve the agreement.

Senator Dockstader moved that the Committee approve the agreement as adopted by the Commission. The motion was seconded and passed by voice vote.

CONSIDERATION OF RECOMMENDATIONS FOR RESERVOIR O&M ACCOUNTS

Mr. LaBonde presented the recommendation for transfers from reservoir operations and maintenance accounts. Tab J. He noted that for the Buffalo Bill Dam Account the Water Development Office was recommending a transfer of funds to Water Account I which will require legislative approval. The Commission voted to approve the recommendations.

PROPOSED REVISIONS TO THE WYOMING WATER DEVELOPMENT PROGRAM - OPERATING CRITERIA

Mr. LaBonde said that the Office had developed proposed changes to the operating criteria in order to remove the \$135,000.00 cap for small water projects and to make some other revisions related to small water projects to be consistent with statute. The Commission voted to move forward with the proposed revisions.

GILLETTE MADISON PIPELINE PROJECT - PRIVATE WELL ISSUES

Presentation from the City of Gillette

Mr. Mike Cole of the City of Gillette provided a presentation on the Gillette-Madison Pipeline Project and Regional Extensions. Appendix 12-01. Mr. Cole walked through the presentation including the history of the projects and the concerns that the City has with the conditions included in the 2018 omnibus water bill.

Mr. Patrick Davidson of the City of Gillette walked through possible solutions as included in the presentation. He noted that the City was not able to sign agreements based on the conditions specified in the 2018 omnibus water bill. He said that there is a need for the M11 and M12 wells to go into production before a solution can be reached but that the City was committed to look for solutions in good faith. He said that one possible solution was for 5 temporary lines to provide water to the private well owners with an allowance for the water discharge necessary to put the M11 and M12 wells online.

In response to a question, Mr. Rick Duell of the State Engineer's office said that municipal use is very broad and can include anything that the city considers appropriate within the service area. He said that livestock use can be considered a municipal use if it is determined to be an appropriate use.

Mr. Davidson said that before any other agreements can be made there is a need to have the M11 and M12 wells online. Once those are in place the rest of the issues could be solved.

In response to a question Mr. Cole said that new subdivisions have not been approved but there is not a moratorium on new taps within subdivisions that have already been approved.

In response to a question Mr. LaBonde said that the Water Development Office can write a letter to Gillette to assure the City that stock use will not trigger any repayment. He said that the Department of Environmental Quality (DEQ) appeared to be close to making determinations on the M11 and M12 wells.

Discussion with Private Well Owners

Mr. Joey Kanode, landowner, said that he was concerned whether the previous discharges from the Madison wells were responsible for the water changes but that he was willing to hear the results from DEQ. He said that he would like the well projects completed and reclaimed.

Mr. Ivan Cranston said that he would be concerned about additional discharges and a determination of liability if more wells contaminated. He said that he would be concerned about the expense to put in a new water pipeline if it was only temporary.

Mr. Matt Wood provided a letter to the Committee. Appendix 12-02. He indicated that he was not having the water issues experienced by some of the other landowners.

Mr. John Allred said that his water had turned very acidic and that it was important to have access to water for livestock.

Mr. Dick Claar, City Councilman from Moorcroft, said that it would be important to consider the ability to produce water to Moorcroft. Currently Moorcroft is only allowed to use water from the Gillette-Madison project on an emergency basis.

After additional discussion, the Commission voted to authorize the Water Development Office to facilitate discussions on potential solutions.

DISCUSSION OF DRAFT LEGISLATION - WATER BANKING

Mr. Josh Anderson of the Legislative Service Office described the draft legislation related to water banking. Appendix 13-01. He noted that the bill was drafted for discussion purposes and would need further amendment prior to formal approval of the bill.

After discussion, Senator Hicks said that he would work with interested members of the Commission and the Committee to provide suggested changes to the bill. He noted that the Joint Agriculture Committee would also be discussing the bill.

DISCUSSION OF THE LAVA PROJECT IN THE MEDICINE BOW NATIONAL FOREST

Senator Hicks described the proposed comments on the Landscape Vegetation Analysis (LaVA) project in the Medicine Bow National Forest. Appendix 14-01. He said that his concern was that the cap on equivalent clear-cut area (ECA) would negatively impact water yields.

After additional discussion, Representative Paxton moved that the Committee submit comments on the project urging the Forest Service not to implement a cap on ECA as provided in the draft environmental impact statement. The motion was seconded and passed by voice vote.

DISCUSSION

Update on Weather Modification Programs

Mr. LaBonde noted that the Office was able to secure matching funding for the Wind River weather modification project and the project will operate for the 2018-2019 season.

MEETING ADJOURNMENT

There being no further business, Representative Hans Hunt adjourned the meeting at 11:15 AM.

Respectfully submitted,

Representative Hans Hunt

Committee Meeting Materials Index

Index Number	Agenda Item	Document Description	Document Provider
1-01		Agenda	LSO
1-02		Sign-in Sheet	LSO
1-03	Joint Workshop	Meeting Notebook	Water Development Office
12-01	Gillette Madison Pipeline Project - Private Well Issues	2018 Regional Water Extensions	Gillette
12-02	Gillette Madison Pipeline Project - Private Well Issues	Letter to the Committee	Matt Wood
13-01	Discussion of Draft Legislation - Water Banking	Water Banking	LSO
14-01	Discussion of the LaVA Project in the Medicine Bow National Forest	LaVA Coments	Senator Hicks

Wyoming Water Development Commission Meeting
Water Development Office, 6920 Yellowtail Rd.
Cheyenne, Wyoming
October 5, 2018

1. Chairman David Evans called the meeting to order at 8:30am.
2. Roll Call – Recognition of Members present to establish a quorum
Commission attendance:
David Evans, Chairman
Larry Suchor, Vice-Chairman
Kellen Lancaster, Secretary
Rodney Wagner
Gerald Geis
Sheridan Little
Nick Bettas
Clinton Glick
Jeanette Sekan – absent
At Large Member - Vacant

Advisors in Attendance:
Daniel Solish, Attorney General's Office

3. Audience Introductions

4. Approval of Minutes

Gerry Geis made a motion to approve the minutes of the August 15th and 17th, 2018 Workshop and Meeting. Larry Suchor seconded the motion; the motion carried unanimously.

5. Demonstration of Waterplan Website and Data Visualization Tools – WRDS

Chris Nicholson from the Water Resources Data Systems demonstrated the redesigned Waterplan Website on the Wyoming Water Development website. In addition to an updated look, the page is now more interactive for users and offers a broad range of information and data.

6. Closeout Memos

- Clearmont Test Well, Level II Study

Keith Clarey, Project Manager, provided a brief summary of the project findings. Discussion followed. Nick Bettas made a motion to accept the

Clearmont Test Well, Level II Study project report as complete and further the WWDC makes the following findings relative to this project:

1. That the Commission recommend proceeding to Level III of project development upon the submittal of an appropriate funding application by the sponsor.

2. Based on the findings in the final report, the project is determined to be in the public interest.

3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.

Sheridan Little seconded the motion; motion carried unanimously.

- South Platte River Watershed Study

Jodie Pavlica, Project Manager, provided a brief summary of the project findings. Gerry Geis made a motion to accept the South Platte River Watershed Study project as complete. Nick Bettas seconded the motion; motion carried unanimously.

7. 2019 Planning Projects Consultant Selection Approval

- Evanston Water Master Plan, Level I Study

Nick Bettas made a motion that the Director be instructed to begin negotiations for consulting services on the Evanston Water Master Plan, Level I with William H. Smith and Associates for consulting services with a recommended budget of \$126,000.00

The motion was seconded by Gerry Geis. The motion carried unanimously.

- Torrington Water Master Plan, Level I Study

Rodney Wagner made a motion that the Director be instructed to begin negotiations for consulting services on the Torrington Water Master Plan, Level I Study with AVI, P.C. with a recommended budget of \$174,000.00

Further, the Selection Committee offers the following suggestions to the Director during contract negotiations:

Acceptance of the Scope Alteration (\$12,740) for an aerial drone survey (included in the above recommended budget of \$174,000.00).

The motion was seconded by Gerry Geis. The motion carried unanimously.

- Salt Creek-Edgerton-Midwest Water Master Plan, Level I Study

Rodney Wagner made a motion that the Director be instructed to begin negotiations for consulting services on the Salt Creek-Edgerton-Midwest Water Master Plan, Level I Study with Morrison Maierle with a recommended budget of \$160,000.00.

Further the Selection Committee offers the following suggestions to the Director during contract negotiations:

To accept scope alternate A, Surge Analysis in the amount of \$15,000.00 and scope alternate B, Simulated Distribution System Testing with Disinfection Boosting in the amount of \$15,000.00. These amounts are reflected in the recommended project budget of \$160,000.00.

Nick Bettas seconded the motion. The motion carried unanimously.

- Bluff/Upper Bluff Irrigation Districts Master Plan, Level I Study

Gerry Geis made a motion that the Director be instructed to begin negotiations for consulting services on the Bluff/Upper Bluff Irrigation Districts Master Plan, Level I Study with Western Heritage Consulting Engineers with a recommended budget of \$123,000.00.

Larry Suchor seconded the motion; the motion carried unanimously.

- Boulder Irrigation District Rehabilitation Level II Study

Nick Bettas made a motion that the Director be instructed to begin negotiations for consulting services on the Boulder Irrigation District Rehabilitation, Level II Study with Sunrise Engineering with a recommended budget of \$171,000.00.

Further, the Selection Committee offers the following suggestions to the Director during the negotiations:

To accept the proposed Siphon Analysis Scope Alteration for \$6,875.00 which is included in the recommended budget.

Gerry Geis seconded the motion; the motion carried unanimously.

- Lake DeSmet/Healy Reservoir Utilization Level II Study

Larry Suchor made a motion that the Director be instructed to begin negotiations for consulting services on Lake DeSmet/Healy Reservoir

Utilization Level II Study with EnTech with a recommended budget of \$268,000.00.

Sheridan Little seconded the motion; the motion carried unanimously.

- LaPrele Irrigation District Rehabilitation, Level II Study

Rodney Wagner made a motion that the Director be instructed to begin negotiations for consulting services on the LaPrele Irrigation District Rehabilitation, Level II Study with Respec with a recommended budget of \$290,000.00.

Further the Selection Committee offers the following suggestions to the Director during contract negotiations:

To accept the scope alternate to decrease the scope of work on the finite element analysis of the dam.

Sheridan Little seconded the motion; the motion carried unanimously.

8. Request to use WDA II Sponsor Contingency Funds

- Leiter Ditch Rehabilitation 2016, Level III

Sheridan Little recused himself and moved to the audience for the discussion and subsequent vote.

During the design of the project, the geotechnical report identified corrosive soils in an area of the project where pipe would be laid. The Lower Clear Creek Irrigation District (LCCID), the sponsor, felt the reinforced concrete pipe option presented would be best for the longevity of the project. An additional \$261,000.00 will be necessary to complete the project. The District is asking for those funds as a 67% grant (\$174,870.00) / 33% loan (\$86,130.00) package. Director LaBonde suggested the Commission vote to authorize the Chairman to sign the agreement and amendment after a 30-day review period by the Select Water Committee. Discussion followed. Gerry Geis moved to approve the request for contingency funds and to authorize the Chairman to sign the amendment after the 30-day review period.

Rodney Wagner seconded the motion; motion carried unanimously.

9. Construction Progress Reports

Bryan Clerkin presented the following Construction progress reports:

-
- Kemmerer Transmission Pipeline 2016
 - Sundance Transmission Pipeline 2016
 - Sundance PRV 2016

Information was presented to the Commission for information only.

10. Discussion

- Gillette Madison Update

Since August 2018, when the WWDC and SWC met and toured in Gillette, the City of Gillette has generated several water service agreements. In those agreements they have offered permanent taps for domestic use, but are still requiring stock use be temporary and limited to three years. Director LaBonde discussed current applications for DEQ discharge permits and the length of time required due to DEQ issuing the permit and public input.

Sheridan Little made a motion at 9:44am to go into Executive Session to discuss legal issues regarding the Gillette Madison project. Kellen Lancaster seconded the motion.

The regular meeting continued at 10:28 am.

Director LaBonde informed the Commission of a Level I Study application received from Crook County concerning the Carlile area. The Commission will be presented with a funding request at their November 7-9, 2018 meeting in Casper.

Larry Suchor discussed Sundance potentially using the tank being taken down in Pine Haven. The Town of Pine Haven has voted to give the tank to the Town of Sundance, but they must move the tank. Director LaBonde requested a copy of the most recent tank inspection report.

Kellen Lancaster requested at some point, perhaps the March meeting, when new commissioners are introduced there be an informational workshop regarding meeting conduct and accommodations.

11. Future Meetings Schedule

The draft meeting schedule for 2019 was presented to the Commission. Director LaBonde pointed out with the new process it would no longer be necessary to hold a meeting in June.

The next meeting for the WWDC will be in Casper at the Wyoming Contractor's Association Regional Training Center, November 7-9, 2018 along with the Select Water Committee.

Motion to adjourn at 10:45am.

Respectfully submitted,

Kellen Lancaster, Secretary

Tab “T2”

Oct. 5, 2018

WWDC

Executive Session

Minutes

(Provided to WWDC
at meeting)



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Buffalo Groundwater Supply
LEVEL: II
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development
PROJECT MGR: Keith Clarey
WWDC MTG DATE: November 8, 2018

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level II	65	2017	I	\$180,000	2020

CURRENT CONTRACT:

Consultant

Wyoming Groundwater, LLC

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0296978	6-19-17	\$179,000	\$178,999.94	\$0.06	6-30-19

PROJECT DESCRIPTION:

In 2016, the City of Buffalo requested a Level II study to determine the feasibility of developing a Madison Aquifer groundwater supply for the City from an existing deep well located approximately 15 miles south of the City. The City relies on surface water from Clear Creek for its current drinking water supply and a back-up groundwater supply is desirable for City supply during potential future drought periods or any quality or quantity problems with the current surface water system.

The Level II study investigated developing a groundwater supply from that deep well and alternative locations closer to the City. Five (5) groundwater supply alternatives or “prospects” were identified and investigated at a reconnaissance-level of study. Among the five (5) identified groundwater supply alternatives in the October 26, 2016 Draft Report, the potential for developing a groundwater supply from the alluvial aquifer along Clear Creek was selected as the preferred alternative by the City.

During January-February 2018, seven (7) test wells were constructed, ranging from 37 to 54 feet deep, in the alluvial aquifer west of the City. Limited pumping tests (1-2 hours) were conducted at five of the test wells. One 20-hour pumping test was conducted at one test well. Conceptual designs and cost estimates were prepared.

PROJECT FINDINGS/RECOMMENDATIONS:

These preliminary Level II test well results were favorable for developing an alluvial aquifer water supply in the selected area. The Level II study recommended a conceptual ten (10) 8-inch diameter, alluvial wellfield with a total construction cost estimated at approximately \$1,848,000. As an alternative, an alluvial aquifer infiltration system option was also investigated.

PUBLIC REPORT PRESENTATION HEARING: Y

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
10-25-18	Buffalo Town Hall, 46 North Main	Buffalo

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report: <http://library.wrds.uwyo.edu/wwdcrept/Buffalo/Buffalo-Groundwater Supply Level II Study-Final Report-2018.html>

Executive Summary: <http://library.wrds.uwyo.edu/wwdcrept/Buffalo/Buffalo-Groundwater Supply Level II Study-Executive Summary-2018.html>

WWDO RECOMMENDATION:

The City of Buffalo is requesting funding for a Level III project to construct an alluvial wellfield for a supplemental groundwater supply for the City along the north side of Clear Creek to the west of the City. This Level III project is planned to construct approximately ten (10) 8-inch diameter alluvial wells into the alluvial aquifer to depths of approximately 50 feet, or less; install pumps and appurtenances; and design and construction of the supply system to connect the wells to the existing surface water treatment plant.

The WWDO is recommending 2019 WWDC Level III construction funding for this project with a total project budget of \$1,848,000 (67% grant \$1,238,160 appropriation). It should be noted that there was opposition to this project expressed at the public hearing. See accompanying documentation.

WWDC PROPOSED MOTION:

I move acceptance of the Buffalo Groundwater Supply, Level II Study project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to Level III of project development upon the submittal of an appropriate funding application by the sponsor.
2. Based on the findings in the final report, the project is determined to be in the public interest.
3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.

RECEIVED

MAR 07 2018

WY WATER DEVELOPMENT OFFICE

March 4, 2018

Mayor and Members of the Buffalo City Council
Buffalo City Hall
46 North Main Street
Buffalo, WY 82834

RE: Buffalo Secondary Municipal Water Source – ERHOA Request for Information.

Mr. Mayor and Members of the Buffalo City Council,

As its president, I represent the 24 lot owners in the Elk Ridge Homeowners Association (**ERHOA**) subdivision located immediately West of Buffalo's water treatment plant. The ERHOA lots (ranging from 5 to 17.8 acres) are located on Hwy 16, Deer Haven Drive and Old Antlers Way. All of the ERHOA lot owners depend on private, individual wells for their water (drinking, household, landscaping, horses, fire protection, etc.).

It is the ERHOA's understanding, the City of Buffalo is proposing to build an extensive water well system (8 to 11 wells) on the vacant land located between its existing water treatment plant and Lot 1 of the ERHOA subdivision. (See attached map).

The ERHOA also understands these wells, (or some of them), will be used immediately and continuously to supplement and blend with the City's existing surface water source and would also provide water for future expansions of the City; rather than just during emergency situations where the City's surface water is compromised.

Additionally, the ERHOA learned the City of Buffalo may also be looking at drilling well(s) to the West of the ERHOA subdivision along Clear Creek near the old Crippled Children's Camp. Considering the above, the ERHOA subdivision has the following concerns and questions about the City of Buffalo's proposed Secondary Municipal Water Source Project:

1. Should the City operate wells from the same aquifer(s) used by the ERHOA homeowners, the ERHOA is concerned this may negatively impact the ERHOA lot owners' wells by reducing their water supply and water pressure, including during drought conditions.
2. This same concern, as stated in item No.1, remains in place should

the City drill and use water upstream from the ERHOA subdivision location.

3. Please note, the ERHOA still has 10 lots in the ERHOA subdivision yet to be developed. Therefore, water capacity needs to be retained for these future home owners.
4. Before the City finalizes its evaluation of, and makes any decisions on this project, the ERHOA would like to be included in the discussions and understand the results of a complete baseline study of the projected wells and any future wells to assure that all of the ERHOA lot owners are and will be protected. This would include, but not be limited to:
 - Well depths
 - Casing diameters
 - Disclosure of all well flow rate calculations, to include recovery rates.
 - Well Safe Yields
 - Inflowing water quality
5. Although it is understood that it is early in the data collection phase of the Secondary Water Source Project, the ERHOA, as adjacent land owners, didn't receive notice about the project and wondered if this was an oversight by the City. The ERHOA learned about it from an article in the Buffalo Bulletin.

Therefore, members of the ERHOA subdivision would like to meet with representatives of the City to discuss this proposed Secondary Water Source Project and to review and fully understand the extent, engineering and expectations of the City of Buffalo towards the Secondary Water Source Project.

Please reply to this letter at the address below for any future correspondence, questions and/or concerns. You may contact ERHOA secretary/treasurer, Peggy Krause, at 307-620-9311.

Thank you for your understanding & cooperation in this matter.

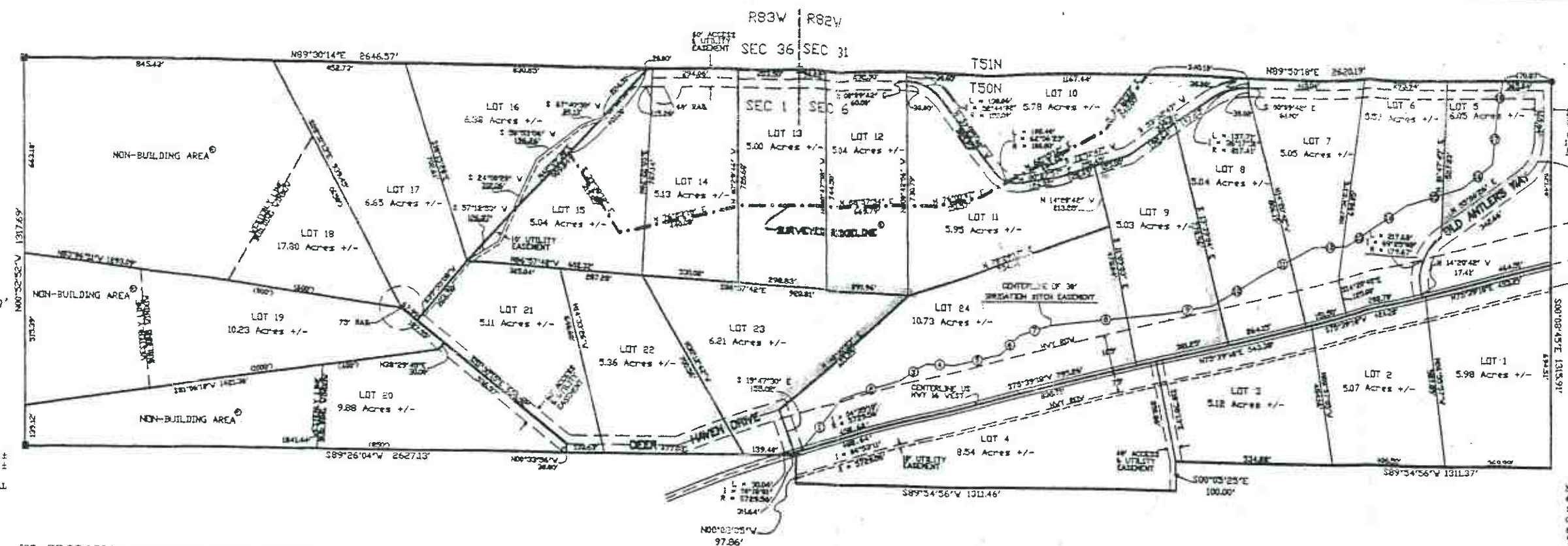
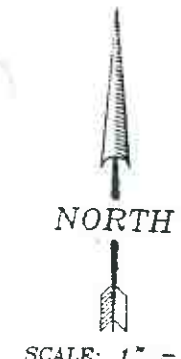
Kindest Regards,

Peggy Krause, signed for Dan Buckley

Dan Buckley
ERHOA President
Elk Ridge Homeowners Association, (ERHOA)
PO Box 763
Buffalo, WY 82834

- cc. Les Hook, Buffalo Public Works Director
✓ Keith Clarey, State of Wyoming Water Development Commission
State of Wyoming, State Engineer's Office
Johnson County Commissioners
Members of Elk Ridge Homeowners Association:

Steve & Penny Laird	Chuck & Judy Birdie
Pete & Carey Dube	Stephan & Nicole Nicholson
David & Susan Smith	John & Missy Anobile
Peggy Krause	Chris & LaRhona Cox
Marion Potterfield	John & Julene Allen
Mike & Phyllis Young	Stephen & Jennifer Mayo
John Lohr	Jay & Jodi Duncan
Zach & Shelly Armstrong	Dave Hess
Larry & Patsy Winters	Dan & Debi Buckley
Dana Fowler	
Linda Loveless & Henry J. Torgerson	
Jim & Judy Myrstol	



CENTERLINE OF 30' IRRIGATION DITCH EASEMENT

LINE NO.	BEARING	DISTANCE
1	N 71°20'25" E	114.27'
2	N 71°20'25" E	228.54'
3	N 39°54'56" W	114.27'
4	N 39°54'56" W	228.54'
5	N 71°20'25" E	114.27'
6	N 71°20'25" E	228.54'
7	N 39°54'56" W	114.27'
8	N 39°54'56" W	228.54'
9	N 71°20'25" E	114.27'
10	N 71°20'25" E	228.54'
11	N 39°54'56" W	114.27'
12	N 39°54'56" W	228.54'
13	N 71°20'25" E	114.27'
14	N 71°20'25" E	228.54'
15	N 39°54'56" W	114.27'
16	N 39°54'56" W	228.54'
17	N 71°20'25" E	114.27'
18	N 71°20'25" E	228.54'
19	N 39°54'56" W	114.27'
20	N 39°54'56" W	228.54'
21	N 71°20'25" E	114.27'
22	N 71°20'25" E	228.54'
23	N 39°54'56" W	114.27'
24	N 39°54'56" W	228.54'

LEGEND
 ● EXISTING IRON PIPE
 ■ EXISTING GLO BRASS CAP

NOTE: All property corners, utility easement corners and surveyed ridge line points not otherwise designated are monumented with aluminum capped rebar, inscribed "S&S 2085". Corners which fall within the roadway are monumented on the easement line.

TOTAL AREA: 161.76 AC. ±
 AVG. LOT SIZE: 6.74 AC. ±
 TOTAL NO. LOTS: 24
 ZONING: RESIDENTIAL

NO PROPOSED DOMESTIC WATER SOURCE
NO PROPOSED PUBLIC SEWAGE DISPOSAL SYSTEM
NO PUBLIC MAINTENANCE OF STREETS OR ROADS

ELK RIDGE SUBDIVISION

A tract of land being the NW1/4 of Section 1, T50N, R83W, and the NW1/4 and the North 100 feet of the SW1/4 of Section 6, T50N, R82W, of the 1st P.M., Johnson County, Wyoming, said tract of land being more particularly described as follows:
 Commencing at the corner common to said Section 1, T50N, R83W, Section 36, T51N, R82W, Section 31, T51N, R82W, and said Section 5, T50N, R82W, said corner being the true point of beginning;
 thence N89°50'18"E along the North line of said Section 6, a distance of 2620.19 feet to the North W corner of said Section 6;
 thence S00°08'45"E along the North-South Mid-Section line of said Section 6, a distance of 1315.91 feet to the North 1/16" corner C-C of said Section 6;
 thence S89°54'56"W along the South line of said Section 6, a distance of 1311.37 feet to the Northwest 1/16" corner of said Section 6;
 thence S00°05'25"E along the East line of said Section 6, a distance of 100.00 feet to a point;
 thence S89°54'56"W along a parallel line to the North line of said SW1/4 of said Section 6, a distance of 1311.46 feet to a point, said point being on the section line common to said Section 6 and said Section 1;
 thence N00°02'05"W along said section line common to said Section 6 and said Section 1, a distance of 97.26 feet to the southeast corner of said NW1/4 of said Section 1;
 thence S89°26'04"W along the South line of said NW1/4 of said Section 1, a distance of 1627.13 feet to the North 1/16" corner C-C of said Section 1;
 thence N00°32'52"W along the North-South Mid-Section line of said Section 1, a distance of 1317.62 feet to the North W corner of said Section 1;
 thence N89°30'14"E along the North line of said Section 1, a distance of 2646.57 feet to the true point of beginning as appears on this Plat, is with free consent, and in accordance with the desires of the undersigned owners and proprietors, containing 161.76 acres, more or less, have by these presents laid out and surveyed as **ELK RIDGE SUBDIVISION**, and do hereby reserve Deer Haven Drive and Old Antlers Way as laid out to be designated as private roads and/or streets, and do also reserve perpetual easements for the installation and maintenance of utilities and for irrigation and drainage facilities as are laid out and designated on this plat. The reserving of Deer Haven Drive and Old Antlers Way as private roads and/or streets on this plat in no way obligates the Johnson County Commissioners to maintain such roads or accept them as county roads nor does it relieve the subdividers of the obligation to construct such streets and/or roads according to the requirements of the Johnson County Subdivision Resolution or other regulations.

APPROVALS
 Approved by the Johnson County Planning Commission this _____ day of _____, 2001.
 Attest: County Clerk _____ Chairman of the Commission _____

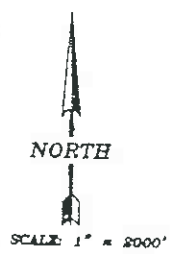
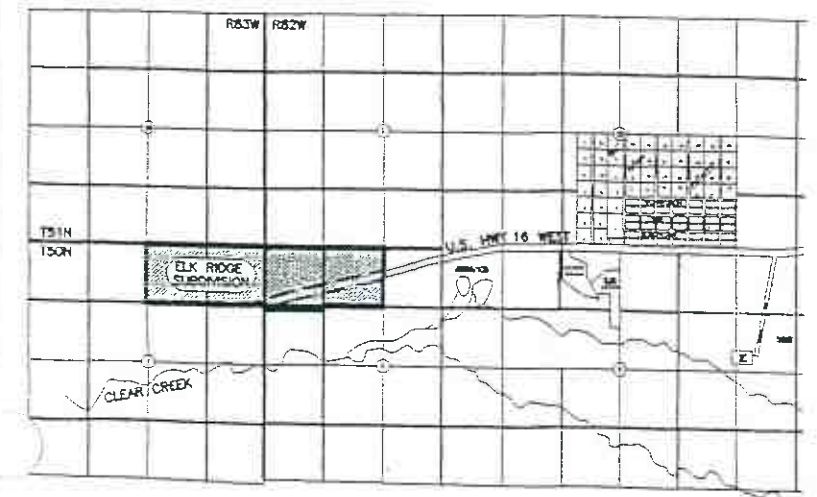
Approved by the Johnson County Board of County Commissioners this _____ day of _____, 2001.
 Attest: County Clerk _____ Chairman _____

See Protective Covenants for Building Restrictions on Lots 10-15 and Non-Building Area Restrictions on Lots 18-20.

EASEMENTS
 Easements are as designated on the plat.

NOTES

- 1). **Disclosure Statement:** A Disclosure Statement has been prepared as per Johnson County Subdivision Regulations and is attached to the Protective Covenants as Exhibit "B".
- 2). Potential buyers/lot owners are advised to hire a reputable well drilling contractor and construct/complete their well within the guidelines described in the Wyoming State Engineer's Office Rules and Regulations Part III, Water Well Minimum Construction Standards. An approved permit from the Wyoming State Engineer's Office is required prior to drilling of a water well.



Witness our hands and seals this _____ day of _____, 2001.

Michael D. Ahlers, President
 Rocky Mountain Land Development, Inc.

Scott D. Ahlers, Vice President
 Rocky Mountain Land Development, Inc.

STATE OF WYOMING)
) ss.
 COUNTY OF JOHNSON)

The foregoing instrument was acknowledged before me by Michael D. Ahlers, President of Rocky Mountain Land Development, Inc. and Scott D. Ahlers, Vice President of Rocky Mountain Land Development, Inc. this _____ day of _____, 2001.

Witness my hand and official seal.

Notary Public _____

My Commission Expires: _____

CERTIFICATE OF SURVEYOR

STATE OF WYOMING)
) ss.
 COUNTY OF JOHNSON)

I, Keith A. Neustel, a duly Registered Professional Land Surveyor in the State of Wyoming do hereby certify that this plat of Elk Ridge Subdivision was prepared from notes taken during an actual field survey conducted by Terry W. Johnson under my direct supervision and represents the conditions as found on the ground.



FINAL PLAT
Elk Ridge Subdivision

Prepared for:
 Rocky Mountain Land Development
 P.O. Box 1212
 Monument, CO 80132



P.O. BOX 1004
 BUFFALO, WYOMING 82834

DATE DRAWN: 12/21/2000 Scale: 1" = 200'
 DRAWN BY: GT Checked By: KAN
 PROJECT NO.: 00-13 File Name: SURVEY.DWG

RECEIVED

OCT 23 2018

October 22, 2018

HAND DELIVERED TO:

The Mayor and Members of Buffalo City Council
Buffalo City Hall
46 North Main
Buffalo, WY 82834

WY WATER DEVELOPMENT OFFICE

RE: Follow-up of Letter dated March 4, 2018 from Dan Buckley, President of Elk Ridge Home Owner's Association

Dear Mr. Mayor:

This letter is to offer comments made by the Elk Ridge Home Owners Association (ERHOA) to the City of Buffalo concerning the document titled "Final Report, Buffalo Groundwater Supply, Level II Study (dated 9/19/2018)." As you know, this report investigates a number of options for replacing or supplementing the water supply to the City of Buffalo, primarily during emergency situations. As you may recall, the ERHOA previously set out a list of concerns about the proposed project via letter, dated March 4, 2018, from Dan Buckley, President of ERHOA, to your office. Now that the Final Report is complete, the ERHOA wishes to restate and expand on those concerns.

By way of background, the Elk Ridge Home Owners Association (ERHOA) lies directly west of Buffalo's water treatment plant, the nearest lot boundary (lot 1) being immediately adjacent to City property where the well field is being proposed. The Elk Ridge Subdivision (a plat of which is attached hereto) consists of 24 lots, and has been in existence since about 1998. Those lot owners who have built homes all rely on individual water wells for domestic use to include drinking, washing, cooking, landscaping, and fire protection. Some also use their wells for watering livestock. To the best of our knowledge, most Elk Ridge Subdivision wells are located in the Wasatch sand formation which lies approximately 160 to 240 feet (more or less) below the Clear Creek Valley floor. There is one shallow well located on lot 3. This well is a legacy well which came with the property, and documentation to conform this well to state permitting requirements has been submitted.

With the above facts in mind, the Elk Ridge Homeowners Association submits the following comments and questions:

First, the ERHOA is unclear about the intended use of the proposed supplemental wells. Will the wells be used only episodically for emergency needs, (forest fires, chemical spills, etc.), or continuously as a buffer for alkaline water or makeup water for the City. Would the City please clarify the plan of usage for these wells?

Second, the Final Report, at page 25, last paragraph, states that:

"While the Wasatch Formation may have the theoretical potential to produce at rates of interest to this project, the depth and number of wells required to realize such production, the marginal water quality, and the likely interference with the many existing domestic users nearby give it a low priority for wellfield development as a replacement water supply."

The Final Report goes on to state that the Wasatch aquifer could be used as a source of hardness and alkalinity to enhance water treatment and buffer the corrosion potential of the City's treated water. Is this paragraph speaking directly to the deeper Wasatch wherein most of the ERHOA wells are situated? If so, and the City elects to take water from the deeper Wasatch for buffering purposes, then the report states that such withdrawal will "likely" interfere with the ERHOA's wells? If the City drills such wells, what plans does the City have to replace water supplies "likely" lost within the Subdivision due to such water production?

Third, in the event water from Clear Creek is compromised by silt and mud from run-off after a forest fire, or other such event, then extraction of water from the shallow alluvium could reasonably be expected to eliminate any particulate, suspended sediments or turbidity contamination. While this is true, the Final Report also states (at page 53), that:

"The first response to an upset in the surface water quality at the primary intake from Clear Creek should be to transfer the diversion to the secondary intake from the North Prong (of Clear Creek) immediately south of the upper pond. That diversion should be maintained such that it has sufficient capacity to temporarily replace the primary diversion (e.g., while debris is cleared from the canyon intake and pipeline or until a chemical spill has passed the primary diversion).

The above statement indicates that the first response to a forest fire or similar event would be to change the point of diversion to allow the debris to be cleared and the turbidity or chemicals to pass. Would the first response, set out above, adequately address the forest fire issue? If so, is there a pressing need to add the shallow wells, thereby incurring the cost of construction, operation and maintenance for those wells?

Fourth, the Final Report also considered the scenario of Clear Creek being exposed to an event involving dissolved contaminants, such as in a chemical spill. At page 53, the Final Report goes on to say:

"In the event an alluvial wellfield or infiltration trench in the area of potential development is used as a short-term supply, temporary suspension of diversions by irrigation ditches that serve to recharge the alluvial aquifer in this area may be considered to reduce the potential for contaminants moving into the aquifer during the extract period."

According to the Final Report, in the event of chemical spills and other similar events, irrigation ditches should be shut down because diversion from Clear Creek into the irrigation ditch may serve to introduce contaminants. Wouldn't the substantial and continuous pumping of the proposed shallow wells to provide a make-up water supply to the City introduce the same kind of contamination into the shallow aquifer? Hydrologically, the shallow wells are directly connected to Clear Creek. In the event of a chemical spill, and the shallow wells were pumped, contaminated water from the Creek would invade the shallow aquifer to replace the water withdrawn, mixing with the existing groundwater. Thereafter, depending on the toxicity and chemical properties of the contaminant, it is quite possible that the chemical bonding could occur between the contaminant and the existing elements and metals within the rocks and boulders of the shallow alluvium. In such case, the residence time of the chemical contaminant could last for years, rendering the aquifer unusable and unsafe. Has the City considered the scenario of chemical spills actually contaminating the shallow aquifer, thereby rendering the shallow wells unusable for their intended purpose? Has the City considered alternatives to using the shallow wells in the event of a chemical spill in Clear Creek?

Further, if a chemical spill occurred at night, it would more than likely be hours before the spill was discovered, reported and remedial action taken. During that time, it is quite possible that the chemicals would enter the fresh water supply for the City, contaminating the holding ponds and perhaps the water treatment plant itself. Does the City envision an “early warning” system which would monitor the creek water, and which would alert the appropriate City officials, or automatically close the fresh water intake, in the event a spill occurs?

Fifth, some homeowners have expressed concerns about significant noise, air and light pollution in the Clear Creek Valley from the proposed well field. The Final Report shows the proposed locations of some of the supplemental wells are immediately adjacent to the east boundary of lot 1. Although unclear, it seems that some maps also show wells located south of lots 1, 2, 3 and 4. In addition, much of the Subdivision overlooks the Clear Creek Valley. As you know, the Clear Creek Watershed Corridor is currently a pristine rural setting with no development. Our concern is that there will be significant noise, air and light pollution, not only during construction, but also during operation of this wellfield. How does the City intend to minimize this pollution both during and after construction?

Sixth, if the wells extend as far as the western tip of the Subdivision (lot 4), homeowners have expressed concerns that construction and maintenance roads will extend into critical watershed lands, disrupt wildlife migration and transportation routes, destroy irreplaceable bird and animal habitat, and serve as a source of light pollution for the entire Clear Creek Valley. How does the City intend to minimize and prevent these adverse affects?

Seventh, will the proposed construction require a relocation of the Clear Creek Trail system as the trail appears to run between and among the wells. This trail is highly used, so will usage of this trail be curtailed or prohibited during the construction, or thereafter? What will the City do to minimize the impact to lots 1, 2, 3 or 4? Also, if the wells are accessible by the public, how does the City intend to secure the wells so as to prevent vandalism, contamination, sabotage or other such acts?

Eighth, lots 1 through 4 contain septic leach fields that most likely have a connection with the shallow aquifer. It is stated in the Final Study that “...well drillers are unable or unwilling to complete a domestic well in the loose cobbles and boulders, and prefer to mud-up, drill through and seal off the alluvium with surface casing and complete the well in the underlying Wasatch Formation.” Also, the conventional wisdom is that “first water” should be avoided, presumably because of the potential for bacterial contamination and septic system influences from surface facilities. Will these existing leach fields impact the quality of water drawn from the shallow wells?

Ninth, some have expressed a concern that power poles servicing the wells will disrupt the pristine viewshed enjoyed by residents, hikers, and visitors. They also serve as artificial raptor perches. Raptors prey on small birds and other creatures which make the watershed area their home. Has the City considered the loss of smaller birds and other indigenous animals in their plan of development? Further, has the City surveyed the area for endangered species and species habitat?

Tenth, all of the homeowners are concerned that long and continuous pumping of the proposed well field will interfere with the quantity of water supplied by their domestic water wells. While records show that the Subdivision’s domestic wells are located in a lower aquifer than that proposed by the City, and it is presupposed that there is no communication between the aquifers, hydrologic studies show that the Clear Creek Valley has been subject to geological uplifts, glacial erosion and deposition, water erosion, faulting and other geological anomalies. It is unclear whether drawdown of the shallow surface wells will actually deplete water levels in the deeper Wasatch formations. As part of this project, will

the City develop a plan that will ensure a continuous supply of water to those in the Elk Ridge Subdivision in the event water supply is adversely impacted?

Eleventh, if water levels in the ERHOA are drawn down, homeowners are concerned that continuous use of the proposed supplemental wells will impact the quality of water from their wells. As water is extracted at high rates, it is quite likely that undesirable water can infiltrate the aquifer currently being used by the homeowners. Does the City plan on conducting benchmark studies of existing wells within a one mile area of the proposed wells for water levels, water quality, hardness, E.coli, and other pertinent quality parameters? Will the City commit to replacing wells lost due to depleted water levels and lost water quality, or will they compensate the homeowners for such losses.

Twelfth, has the City considered alternatives to accommodate the need for emergency water? For example, additional water tanks could be added like that on French Creek Road, at the airport and at Twin Lakes. The water in such tanks or in separate ponds could be isolated from Clear Creek and thus protected should a chemical spill occur in the creek.

Thirteenth, would the City please encourage the consultant engineers to label the Elk Ridge Subdivision lots show on Figure 34-10 so that those lot owners can better determine the proximity of the proposed wells to their lots?

In summary, the Elk Ridge Homeowners Association submits this letter as a statement of concerns about the proposed shallow well system planned just to the east and south of the Elk Ridge Subdivision. Briefly, those concerns range from the actual practical use of the wells during fires and chemical spills to concerns about interference with domestic wells, depletion of water quality and quantity, and noise and air pollution within the valley. In addition, concerns have been raised about the potential impacts on indigenous animals and wildlife habitat along Clear Creek. We are asking the City to address all the above concerns when reviewing and considering the proposed well field. Thank you for your time, and for your considered responses to these concerns.

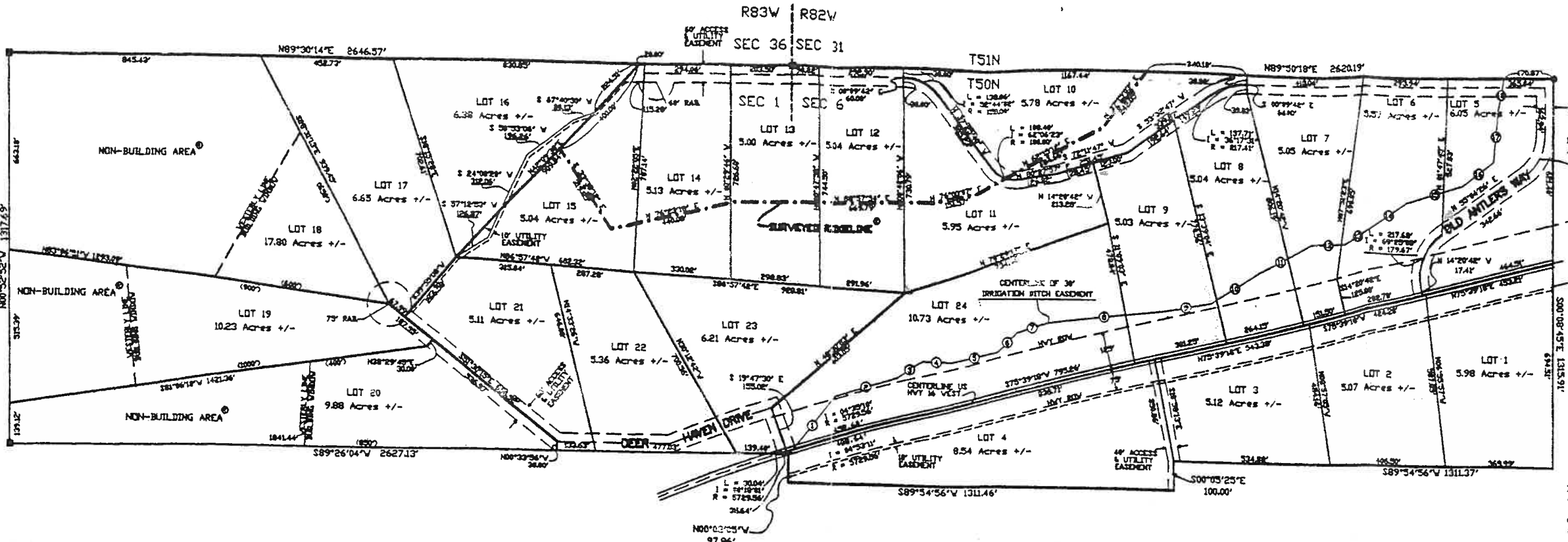
Sincerely,

Steven R. Laird, President
Elk Ridge Homeowners Association
P.O. Box 763
Buffalo, WY 82834
Phone 307-684-5951
Email: laird.steve@gmail.com

cc:
Wyoming State Engineer
ERHOA Members
Johnson County Commissioners



SCALE: 1" = 200'



CENTERLINE OF 30' IRRIGATION DITCH EASEMENT

LINE NO.	BEARINGS	DISTANCE
1	N 37° 52' 00" E	233.49'
2	N 17° 56' 30" E	224.90'
3	N 30° 06' 30" E	322.43'
4	S 89° 54' 56" W	37.17'
5	N 77° 44' 30" E	162.43'
6	N 44° 17' 18" E	93.47'
7	N 13° 35' 30" E	377.88'
8	S 89° 54' 56" W	370.44'
9	N 78° 28' 30" E	168.71'
10	N 87° 14' 30" E	184.28'
11	N 61° 38' 15" E	206.81'
12	N 87° 53' 30" E	186.49'
13	N 84° 23' 00" E	379.99'
14	N 54° 08' 30" E	328.81'
15	N 78° 47' 30" E	202.64'
16	N 58° 28' 30" E	126.17'
17	S 89° 54' 56" W	172.81'
18	N 18° 17' 30" E	114.51'

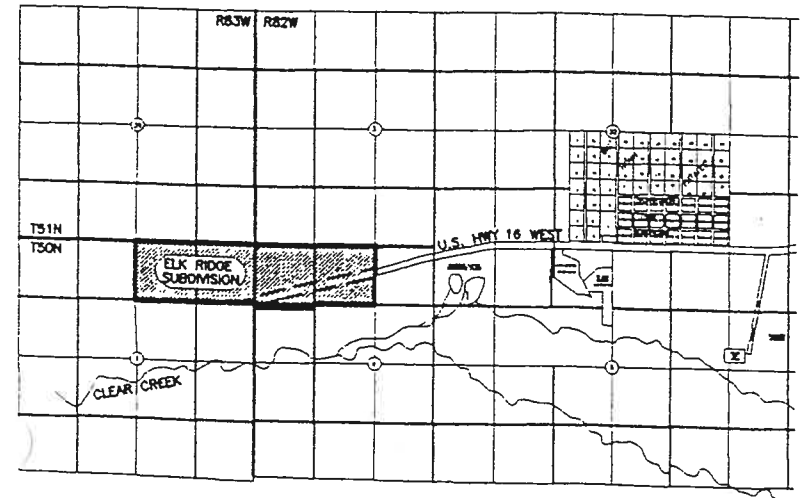
LEGEND
 ● EXISTING IRON PIPE
 ■ EXISTING GLO BRASS CAP

TOTAL AREA: 161.76 AC. ±
 AVG. LOT SIZE: 6.74 AC. ±
 TOTAL NO. LOTS: 24
 ZONING: RESIDENTIAL

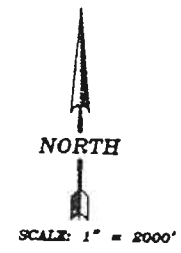
NO PROPOSED DOMESTIC WATER SOURCE
NO PROPOSED PUBLIC SEWAGE DISPOSAL SYSTEM
NO PUBLIC MAINTENANCE OF STREETS OR ROADS

EASEMENTS
 Easements are as designated on the plat

- NOTES**
- 1). Disclosure Statement: A Disclosure Statement has been prepared as per Johnson County Subdivision Regulations and is attached to the Protective Covenants as Exhibit "B".
 - 2). Potential buyers/lot owners are advised to hire a reputable well drilling contractor and construct/complete their well within the guidelines described in the Wyoming State Engineer's Office Rules and Regulations Part III, Water Well Minimum Construction Standards. An approved permit from the Wyoming State Engineer's Office is required prior to drilling of a water well.



LOCATION MAP



ELK RIDGE SUBDIVISION

A tract of land being the N4/4 of Section 1, T50N, R83W, and the N4/4 and the North 100 feet of the SW1/4 of Section 6, T50N, R82W, of the 6th P.M., Johnson County, Wyoming, said tract of land being more particularly described as follows:

Commencing at the corner common to said Section 1, T50N, R83W, Section 36, T51N, R83W, Section 31, T51N, R82W, and said Section 5, T50N, R82W, said corner being the true point of beginning;

thence N89°50'18"E along the North line of said Section 6, a distance of 2620.19 feet to the North 1/4 corner of said Section 6;

thence S00°08'45"E along the North-South Mid-Section line of said Section 6, a distance of 1315.91 feet to the North 1/16 corner C-C of said Section 6;

thence S89°54'56"W along the South line of said N4/4 of said Section 6, a distance of 1311.37 feet to the Northwest 1/16 corner of said Section 6;

thence S00°05'25"E along the East line of said SW1/4 of said Section 6, a distance of 100.00 feet to a point;

thence S89°54'56"W along a parallel line to the North line of said SW1/4 of said Section 6, a distance of 1311.46 feet to a point, said point being on the section line common to said Section 6 and said Section 1;

thence N00°02'05"W along said section line common to said Section 6 and said Section 1, a distance of 97.86 feet to the southeast corner of said N4/4 of said Section 1;

thence S89°26'04"W along the South line of said N4/4 of said Section 1, a distance of 2627.13 feet to the North 1/16 corner C-C of said Section 1;

thence N00°52'52"W along the North-South Mid-Section line of said Section 1, a distance of 1317.69 feet to the North 1/16 corner of said Section 1;

thence N89°30'14"E along the North line of said Section 1, a distance of 2646.57 feet to the true point of beginning as appears on this Plat, is with free consent, and in accordance with the desires of the undersigned owners and proprietors, containing 161.76 acres, more or less, have by these presents laid out and surveyed as ELK RIDGE SUBDIVISION, and do hereby reserve Deer Haven Drive and Old Antlers Way as laid out to be designated as private roads and/or streets, and do also reserve perpetual easements for the installation and maintenance of utilities and for irrigation and drainage facilities as are laid out and designated on this plat. The reserving of Deer Haven Drive and Old Antlers Way as private roads and/or streets on this plat in no way obligates the Johnson County Commissioners to maintain such roads or accept them as county roads nor does it relieve the subdivider of the obligation to construct such streets and/or roads according to the requirements of the Johnson County Subdivision Resolution or other regulations.

Witness our hands and seals this ____ day of _____, 2001.

Michael D. Ahlers, President
 Rocky Mountain Land Development, Inc.

Scott D. Ahlers, Vice President
 Rocky Mountain Land Development, Inc.

STATE OF WYOMING) ss. _____
 COUNTY OF JOHNSON)

The foregoing instrument was acknowledged before me by Michael D. Ahlers, President of Rocky Mountain Land Development, Inc. and Scott D. Ahlers, Vice President of Rocky Mountain Land Development, Inc. this ____ day of _____, 2001.

Witness my hand and official seal.

Notary Public

My Commission Expires: _____

APPROVALS

Approved by the Johnson County Planning Commission this ____ day of _____, 2001.

Attest: County Clerk _____ Chairman of the Commission _____

Approved by the Johnson County Board of County Commissioners this ____ day of _____, 2001.

Attest: County Clerk _____ Chairman _____

STATE OF WYOMING)
 COUNTY OF JOHNSON)

This instrument was filed for record on the ____ day of _____, 2001, at _____, and was duly recorded in Plat Book _____, page _____.

PROTECTIVE COVENANTS ARE RECORDED IN BOOK _____, PAGES _____.

CERTIFICATE OF SURVEYOR

STATE OF WYOMING)
 COUNTY OF JOHNSON)

I, Keith A. Heustel, a duly Registered Professional Land Surveyor in the State of Wyoming do hereby certify that this plat of Elk Ridge Subdivision was prepared from notes taken during an actual field survey conducted by Terry W. Janssen under my direct supervision and represents the conditions as found on the ground.



FINAL PLAT
Elk Ridge Subdivision

Prepared for:
 Rocky Mountain Land Development
 P.O. Box 1212
 Monument, CO 80132



Grizzly Engineering
 CONSULTING ENGINEERS and LAND SURVEYORS
 P.O. BOX 1004
 BUFFALO, WYOMING 82834
 307/684-7029

Date Drawn: 12/21/2000 Scale: 1" = 200'
 Drawn By: GT Checked By: KAH
 Project No. 00-13 File Name: SURVEY.DWG



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Cody Canal Laterals
LEVEL: II
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
PROJECT MGR: Chace Tavelli
WWDC MTG DATE: November 8, 2018

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level II	65	2017	II	\$180,000	2020

CURRENT CONTRACT:

Consultant
Sage Civil Engineering

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0296980	6-14-17	\$177,500	\$176,165	\$1,335	6-30-19

PROJECT DESCRIPTION:

The Cody Canal Irrigation District has faced many challenges as formerly irrigated lands are being converted to housing and other developments. There are several open ditch laterals running through and around the Town of Cody that provide Cody’s raw water supply to yards and parks, supply pastures and agricultural operations. With continued development it has become a challenge to maintain open ditches in urban areas and public safety is a concern as there are children playing in the laterals. Piping laterals also has a water conservation element important to the District. Additionally, the district needs to understand what designs for entire laterals are comprised of rather than having short sections designed and “piece-mealing” pipe throughout the district. The District’s request was to study the feasibility of piping the laterals throughout their system. The goal for the Level II Feasibility Study was to identify and prioritize converting open laterals to pipe to improve safety, conserve water, and decrease maintenance issues.

PROJECT FINDINGS/RECOMMENDATIONS:

Conclusions:

- The District’s normal operations would likely benefit greatly from converting the open laterals to pipelines in terms of safety, conservation, and maintenance efforts and costs.
- A plan was developed for converting 17 laterals from open ditch to pipe.
- Keep the conversion plan flexible in terms of the order in which the laterals are converted.

Lateral	Total Cost	Year to Construct
Buchanan	\$243,654	2019
Frost	\$392,318	2020
Schultz/McNeil	\$1,806,122	2021
Holm - Headgate to Moller	\$1,021,096	2024
Moller	\$458,595	2028
Highway	\$886,615	-
Indian Pass	\$1,935,500	-
Wasden	\$914,132	-
Holm Moller to Airport	\$1,126,746	-
Bell	\$825,667	-
Holm to End	\$659,121	-
Zinn	\$1,230,895	-
Adams (low pressure)	\$2,404,294	-
Lower Sage - Ross to Highway	\$2,676,020	-
Lower Sage - Highway to Wasden	\$730,138	-
Ross - Lower End	\$1,127,876	-
Town (low pressure)	\$4,405,293	-

- Five of those laterals are scheduled to be constructed from 2019 to 2028
 - First project is the conversion of the Buchanan and Frost Laterals

PUBLIC REPORT PRESENTATION HEARING: Y

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
9-13-18	Big Horn Federal Savings Bank, 1701 Stampede Ave	Cody

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report:

http://library.wrds.uwyo.edu/wwdcrept/Cody/Cody_Canal-Laterals_Level_II-Final_Report-2018.html

Executive Summary:

http://library.wrds.uwyo.edu/wwdcrept/Cody/Cody_Canal-Laterals_Level_II-Executive_Summary-2018.html

WWDO RECOMMENDATION:

The Cody Canal Irrigation District submitted a WWDC Level III application on August 29th, 2018, to receive a materials only grant for WWDC-eligible components to convert the Buchanan and Frost Laterals from open ditch to pipe, based on recommendations from the Cody Canal Laterals Level II Study. The materials only grant amount is estimated to be \$344,000, and the Sponsor's share is estimated to be \$302,649, for a total project cost of \$646,649. The WWDO has prepared a Level III recommendation for the project.

WWDC PROPOSED MOTION:

I move acceptance of the Cody Canal Laterals, Level II project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to Level III of project development upon the submittal of an appropriate funding application by the sponsor.

2. Based on the findings in the final report, the project is determined to be in the public interest.
3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: GR-RS-SC JPWB Wind River Zone Study
LEVEL: II
SPONSOR: GR-RS-SC Joint Powers Water Board
LOCATION: Sweetwater County
PROGRAM: New Development
PROJECT MGR: Keith Clarey
WWDC MTG DATE: November 8, 2018

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level II	65	2017	I	\$180,000	2020

CURRENT CONTRACT:

Consultant
Sunrise Engineering, Inc.

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0297008	6-30-17	\$164,630	\$154,557.89	\$10,072.11	6-30-19

PROJECT DESCRIPTION:

In 2016, the Green River-Rock Springs-Sweetwater County Joint Powers Water Board (GR-RS-SC JPWB) requested funding for a Level II Feasibility Study. The focus of the Level II study was to provide supplemental and redundant transmission/pumping capacity to the Wind River Zone in the City of Rock Springs. All water supply to the northern portions of the City pass through this zone. The need for these improvements was identified in Task 6 of the 2009 WWDC Master Plan (Phase II), Final Report, January 2009, by Nelson Engineering.

PROJECT FINDINGS/RECOMMENDATIONS:

The JPWB, in conjunction with the City of Rock Springs, participated in a WWDC Level II Study to evaluate the Wind River Zone in the City of Rock Springs. This Zone is a critical commercial service territory and link to other water systems located at points north of the City. The master plan, and this subsequent Level II study, identified deficiencies in the existing Wind River Pumping Station, and associated water systems, related to the lack of capacity and lack of redundancy. The Level II study prepared alternatives and cost estimates.

PUBLIC REPORT PRESENTATION HEARING: Y

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
10-22-18	City Hall, 212 D Street	Rock Springs

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report: http://library.wrds.uwyo.edu/wwdcrept/Wind_River/Wind_River_Zone-Study_Level_II-Final_Report-2018.html
 Executive Summary: http://library.wrds.uwyo.edu/wwdcrept/Wind_River/Wind_River_Zone-Study_Level_II-Executive_Summary-2018.html

WWDO RECOMMENDATION:

The critical nature of the Wind River Pump Station lead the JPWB and City to investigate options for a redundant water supply to this zone. The Level I master plans (Nelson, 2009) had identified potential pump location concepts. The study further investigated these locations and the required piping routes and project costs to come up with a preferred alternative.

The JPWB is seeking funding for the design and construction of Phase I of this preferred alternative that has become known as the “Crossroads Pump Station.” This Level III construction project would construct a new pump station and install the associated piping to connect the new station to the existing water system.

The WWDO is recommending 2019 WWDC Level III construction funding for this JPWB Phase I project with a total project budget of \$11,190,000 (67% grant \$7,497,300 appropriation).

WWDC PROPOSED MOTION:

I move acceptance of the GR-RS-SC JPWB Wind River Zone Study, Level II project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to Level III of project development upon the submittal of an appropriate funding application by the sponsor.
2. Based on the findings in the final report, the project is determined to be in the public interest.
3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: LaPrele Irrigation District Master Plan
LEVEL: I
SPONSOR: LaPrele Irrigation District
LOCATION: Converse County (West of Douglas)
PROGRAM: Rehabilitation
PROJECT MGR: Chace Tavelli
WWDC MTG DATE: November 8, 2018

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level I	65	2017	II	\$190,000	2020

CURRENT CONTRACT:

Consultant

Re/Spec Inc.

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0296979	6-20-17	\$181,700	\$181,700	\$0	6-30-19

PROJECT DESCRIPTION:

The LaPrele Irrigation District supply system is made up of 3 reservoirs, siphons, tunnels and open ditch canals. This project was a Level I study that looked at the District's entire system to identify issues with their infrastructure, and a cursory investigation of potential rock fall hazards near the LaPrele Reservoir Dam.

PROJECT FINDINGS/RECOMMENDATIONS:

The plan includes results from the investigation of potential improvements to the existing facilities and infrastructure for the District. Recommendations were gathered to develop a master plan for the District that prioritized a list of projects that will protect the longevity of the system and increase the District's water use efficiency. These projects include providing an inventory and assessment for rehabilitating and replacing existing structures, identifying damaged or high-risk natural features that threaten the integrity of the LaPrele Dam and Reservoir, improving the management and delivery of irrigated water through automation and management strategies, reducing operational and maintenance costs, and the development of a GIS. Conceptual designs and cost estimates were developed for implementation alternatives and an economic evaluation that is associated with funding for the improvements.

A total of 57 structures were evaluated including diversions, headgates, culverts, checks, tunnels, and waste ways. The evaluation consisted of determining a rehabilitation priority index based on structure type, overall condition, and the number of farm turnouts dependent on the structure. The rehabilitation priority

index then helped determine the high priority structures for repair or replacement. A cost estimate was developed for each of the structures.

HIGH PRIORITY RECOMMENDATIONS:

1. Rockfall monitoring at LaPrele Dam.
2. Main diversion and headgate facility replacement and other major structure replacements.
3. Structural analysis of the LaPrele Dam and rockfall analysis (Level II Study).

Cost estimates for High Priority Recommendations numbers 1 and 2

Project Type	Project Description (Structure ID)	Total Project Cost
Rockblock Monitoring	West Abutment, With Water-Level Sensor	\$28,176
Rockblock Monitoring	East Abutment	\$15,840
Structural Replacement	Main Diversion and Headgate (LID-HG-017 and LID-HG-018)	\$854,789
Structural Replacement	Culvert (LID-CU-006)	\$8,137
Structural Replacement	Culvert (LID-CU-056)	\$7,211
Structural Replacement	Check Structure (LID-CH-020)	\$10,778
Structural Replacement	Farm Turnout TM16 (LID-FTO-039)	\$10,794

ADDITIONAL RECOMMENDATIONS:

1. Structure replacement and rehabilitation for the structures not classified as “High Priority”. The cost estimates ranged from \$50 to \$4,000
2. Canal lining

Project Description	Total Project Cost
Table Mountain Lining (East Main Canal)	\$929,940
West Lateral Pipe Conversion	\$2,593,820

3. Delivery system automation for remotely monitoring and adjusting flows via cellular modem

Description	Total Project Cost
Headgate and Flume Combination (4 Locations)	\$56,500
Check Gate (5 Locations)	\$60,740
Flume Measurement (359 Flume)	\$9,500

4. On-farm irrigation improvements consisted of conversion from flood irrigation to center pivot or gated pipe. Cost estimates were general and based on a percentage of lands converted

Scenario	Description	Total Project Cost
1	30% Pivot, 70% Gated Pipe	\$2,353,000
2	27% Pivot, 63% Gated Pipe, 10% Flood	\$1,450,000
3	23% Pivot, 77% Gated Pipe	\$1,418,000

5. Update the Irrigation District Master Plan in 2035

PUBLIC REPORT PRESENTATION **HEARING: N**

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
9-10-18	Converse County Courthouse, 107 N 5th St # 231	Douglas

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report:

http://library.wrds.uwyo.edu/wwdcrept/LaPrele/LaPrele_Irrigation_District-Master_Plan_Level_I-Final_Report-2018.html

Executive Summary:

http://library.wrds.uwyo.edu/wwdcrept/LaPrele/LaPrele_Irrigation_District-Master_Plan_Level_I-Executive_Summary-2018.html

WWDO RECOMMENDATION:

The LaPrele Irrigation District submitted a WWDC Level II application on March 1, 2018, for a Study to investigate rock fall hazards to LaPrele Dam and appropriate mitigation of those hazards. The proposed appropriation for the study is \$290,000 based on the recently completed consultant selection under the new process. The WWDO has prepared a Level II recommendation for the study.

WWDC PROPOSED MOTION:

I move acceptance of the LaPrele Irrigation District Master Plan, Level I project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to the next Level of project development upon the submittal of an appropriate funding application by the sponsor.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Lusk Water Supply Study
LEVEL: II
SPONSOR: Town of Lusk
LOCATION: Niobrara County
PROGRAM: New Development
PROJECT MGR: Keith Clarey
WWDC MTG DATE: November 8, 2018

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level II	38	2016	I	\$175,000	2019

CURRENT CONTRACT:

Consultant
 AVI, p.c.

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0296634	6-10-16	\$174,000	\$127,956.70	\$46,043.30	6-30-19

PROJECT DESCRIPTION:

The Town of Lusk is located in east-central Wyoming in Niobrara County. The Town of Lusk public water system serves the Town and adjacent area, including the Wyoming Women’s Center. The system is supplied with groundwater from four wells completed into the Arikaree Formation. The Level II water supply/quality feasibility study was requested by the Town to address the September 2014 U.S. EPA Notice Of Violation (NOV) and Administrative Order (AO) for all four wells, which have all exceeded the MCL for adjusted gross alpha on occasion. The September 2014 EPA NOV/AO directed the Town to develop and submit a compliance plan to resolve the violations.

The Level II final report, executive summary, and project deliverables were received on July 18, 2018.

PROJECT FINDINGS/RECOMMENDATIONS:

The primary conclusion of the Lusk Level II study is that substantial underestimation of uranium radioactivity was the source of apparent exceedances of the EPA Maximum Contaminant Level (MCL) for adjusted gross alpha activity. The Town of Lusk EPA compliance issues have been resolved without operational changes or additional construction. The current system is more than capable of meeting the Town’s water supply needs and based on all available water-quality data, the water system is, and always has been, in full compliance with EPA water-quality standards.

The Level II study investigated several methods for the Town to comply with EPA water standards, including various well operations, water blending, well constructions, and potential water treatments. However, after the EPA was presented with the results of additional water-quality sampling of wells conducted in 2017 and more rigorous laboratory analyses and radioactivity interpretations; the EPA

informed the Town on January 28, 2018, that the Administrative Order has been closed and the requirements of the Order have been completed. In addition, the Level II study identified that existing Lusk Well #1 needed to be replaced with a new well and some storage tank deficiencies needed upgrading, re-piping, and modification.

PUBLIC REPORT PRESENTATION HEARING: Y

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
12-7-17	Niobrara County Fairgrounds, 4080 US HWY 20	Lusk

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report: http://library.wrds.uwyo.edu/wwdcrept/Lusk/Lusk-Water_Supply_Level_II_Study-Final_Report-2018.html

Executive Summary: http://library.wrds.uwyo.edu/wwdcrept/Lusk/Lusk-Water_Supply_Level_II_Study-Executive_Summary-2018.html

WWDO RECOMMENDATION:

The Lusk Water System Improvements project was designed to construct a replacement well for Well #1; connect new replacement well to the system; plug and abandon old Well #1, and demolish the old well pit and appurtenances; and construct improvements to the storage tanks. The 2018 Level III project was designed to address recommendations from a recent EPA Sanitary Survey of the system and recommendations for the 2014 Lusk Master Plan and April 2017 Lusk Water Supply, Level II Study (Interim Report).

In September 2017, the Town of Lusk requested Level III funding with an appropriation of \$546,050, for the WWDC project eligible components. The 2018 appropriation was a 67% grant of \$546,050. A separate 33% SRF loan of \$268,950 was also needed. The remainder of the project funding for the non-eligible components was funded by the Town of Lusk.

In November 2017, the WWDO recommended funding of the Level III construction project, Lusk Water System Improvements 2018, was approved by the WWDC and the Level III project appropriation was included in the 2018 Omnibus Water Bill – Construction.

WWDC PROPOSED MOTION:

I move acceptance of the Lusk Water Supply Study, Level II project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Terminating further consideration of the proposed project.



**PROJECT UPDATE MEMO
FOR LEVEL II PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
DAM AND RESERVOIR DIVISION**



The Planning Project listed below is substantially complete and could be scheduled for Level II, Phase III status. This memo serves to summarize the findings of the Phase II feasibility study to date.

PROJECT: New Fork Lake Dam Enlargement
LEVEL: II **PHASE:** II
SPONSOR: New Fork Lake Irrigation District
LOCATION: Near Cora, WY
PROGRAM: Dams and Reservoirs
PROJECT MGR: Andrew Linch

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level II	168	2015	III	\$300,000	2018
Level II	65	2017	III	\$450,000	2022

CURRENT CONTRACT:

Consultant
 RJH Consultants, Inc.

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0296336	6-16-15	\$296,000	\$296,000	\$0	6-30-18
05SC0296336	3-30-17	\$450,000	TBD	TBD	6-30-20

PROJECT DESCRIPTION:

The current New Fork Lake Dam was rebuilt in 1933 with a permitted capacity of 20,340 acre-feet and has a November 11, 1903 priority date. It is located on the main stem of the New Fork River in the Bridger-Teton National Forest, northwest of Pinedale, WY. The current dam was designed to hold back 17 feet of additional water, on top of the existing glacial New Fork Lakes, which now provides late season supplemental water to the New Fork Lake Irrigation District (District). The primary crop is natural grass hay to support cattle ranching operations.

In 2015, \$300,000 was appropriated to study the feasibility of enlarging New Fork Lakes primarily to address shortages in the District and the aging dam infrastructure. This Level II, Phase I project was completed in April 2017. An additional \$450,000 was appropriated in 2017 to continue studying the top expansion alternative at New Fork Lakes with a Level II, Phase II project. The top alternative being studied is a proposal to lower the existing outlet to utilize more of the existing ~150 foot deep natural lake. The project tasks in this Level II, Phase II study included: bathymetric and topographic survey, hydrologic model refinement, environmental refinement and field work, geotechnical field work, conceptual designs and cost estimates, an updated economic analysis, and federal agency consultation.

PROJECT FINDINGS/RECOMMENDATIONS:

The topographic and bathymetric surveys were completed in the summer of 2017 along with the geotechnical and environmental field investigations. Utilizing this information, the hydrologic modeling and conceptual designs were refined and updated. This resulted in a revised expansion concept of 8,000 ac-ft instead of the previous 9,400 ac-ft concept. This reduction was a result of optimizing the StateMOD

shortage calculation with the design concept, and finding middle ground between the size of the enlargement, firm yield of the reservoir, irrigation shortage reduction, dam design improvements, and construction costs. This optimization also reduced the Opinion of Probable Construction Cost (OPCC) by \$1.3 million from \$12.74 million to \$11.44 million. Meetings with the Wyoming Game and Fish Department (WGFD), USDA Forest Service (USFS), and US Army Corps of Engineers (USACE) also helped further refine the design towards a more NEPA informed concept.

Economics for the project were also updated and discussed with the District. A meeting was held with the District board members on September 25, 2018 to present the updated cost estimate, ability to pay analysis, and grant/loan percentages calculated for the project. A discussion of the cost implications to their district membership revealed a grant/loan percentage of 91.2/8.8 as the current ability and willingness to pay for the project. The \$11.44 million construction cost results in about \$1,430/ac-ft for the additional 8,000 ac-ft of the proposed enlargement. In a broader sense, with the dam safety improvements, the project also preserves the existing 20,340 ac-ft of storage; adding that to the enlargement reveals a \$404/ac-ft project cost. The estimated benefit-cost ratio for a 50 year project life is 2.5 for the 8,000 ac-ft enlargement.

Results from the environmental investigations and evaluations were shared and discussed with the USDA Forest Service (USFS), U.S. Army Corps of Engineers (USACE), and Wyoming Game and Fish Department. Based on the pre-application consultation with the agencies, there are no apparent fatal flaws with the project and it is believed permitting could likely be completed through an Environmental Assessment (EA).

PUBLIC REPORT PRESENTATION HEARING: N

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
TBD	TBD	TBD

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report: TBD
Executive Summary: TBD

WWDO RECOMMENDATION:

It is recommended the project continue with a Level II, Phase III study which would initiate the National Environmental Policy Act (NEPA) review process, and if a favorable decision is reached, complete final design. Rather than delaying the project by a year, and to facilitate a more timely process, funding is being requested prior to completion of the final report as it is expected in early 2019. The current analysis is substantially complete with the project's feasibility having been concluded. Furthermore, the USFS has indicated this project has been included in their 2019 budget and maintaining momentum with the federal agency is preferred. Drawing from past experience, the USFS should allow the WWDO to select the contractor to conduct the Environmental Assessment. This contractor will then be under the supervision of the USFS during the NEPA review. The WWDO proposes amending RJH Consultants' contract to complete the NEPA review services (via their subconsultant) and final design, thereby retaining project knowledge and continuity.

WWDC PROPOSED MOTION:

I move acceptance of the New Fork Lake Dam Enlargement project report as being substantially complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Continuing the project at the current Level of study and advancing to Phase III upon the submittal of an appropriate funding application by the sponsor.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Rolling Hills Groundwater Supply
LEVEL: II
SPONSOR: Town of Rolling Hills
LOCATION: Converse County
PROGRAM: New Development
PROJECT MGR: Keith Clarey
WWDC MTG DATE: November 8, 2018

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level II	65	2017	I	\$750,000	2020

CURRENT CONTRACT:

Consultant
Weston Engineering, Inc.

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0296994	6-26-17	\$745,000	\$521,164.43	\$223,835.57	12-31-19

PROJECT DESCRIPTION:

During 2016, a lightning strike knocked out one of the Town of Rolling Hills’s most productive wells, resulting in a major reduction in the Town’s water supply. This event reinforced the need for water system redundancy and additional supply. Later in 2016, the Town requested a Level II test well construction feasibility study for a test/production well.

During the 2017 Level II study, a deep test well, Rolling Hills Well No. 7, was sited, designed, and constructed to a total depth 2,095 feet into the upper Lance Formation in 2018. The test/production well is capable of yielding 80 gpm with acceptable water quality.

PROJECT FINDINGS/RECOMMENDATIONS:

The results of the Level II study was a successful test well and the recommendation to the Town of Rolling Hills is to connect the new well to the water system. Conceptual designs and cost estimates were prepared. In August 2018, the Town of Rolling Hills applied for Level III funding to purchase the new well and connect the well to the Town’s water system.

PUBLIC REPORT PRESENTATION HEARING: Y

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
10-25-18	Town Hall, 38 South Badger Road	Rolling Hills

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report: http://library.wrds.uwyo.edu/wwdcrept/Rolling_Hills/Rolling_Hills-Groundwater_Supply_Level_II_Study-Final_Report-2018.html

Executive Summary: http://library.wrds.uwyo.edu/wwdcrept/Rolling_Hills/Rolling_Hills-Groundwater_Supply_Level_II_Study-Executive_Summary-2018.html

WWDO RECOMMENDATION:

The WWDO is recommending 2019 WWDC Level III construction funding for the Rolling Hills Well No. 7 Connection project with a total project budget of \$408,000 (67% grant \$273,360 appropriation).

WWDC PROPOSED MOTION:

I move acceptance of the Rolling Hills Groundwater Supply, Level II Study project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to Level III of project development upon the submittal of an appropriate funding application by the sponsor.
2. Based on the findings in the final report, the project is determined to be in the public interest.
3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Wheatland Irrigation District Tunnel Dam Rehabilitation
LEVEL: II
SPONSOR: Wheatland Irrigation District
LOCATION: Albany County
PROGRAM: Rehabilitation
PROJECT MGR: Tony Rutherford
WWDC MTG DATE: November 8, 2018

AUTHORIZING LEGISLATION:

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Level II	65	2017	II	\$150,000	2020

CURRENT CONTRACT:

Consultant
Wenck Associates, Inc.

<u>Contract Number</u>	<u>Executed</u>	<u>Original Contract Amount</u>	<u>Final Contract Amount</u>	<u>Contract Savings Amount</u>	<u>Expiration Date</u>
05SC0296968	6-13-17	\$149,260	\$138,457.46	\$10,802.54	6-30-19

PROJECT DESCRIPTION:

In 2017, the Wheatland Irrigation District received funding from the Legislature to conduct a Level II study evaluating rehabilitation or replacement alternatives for the Tunnel Dam diversion structure. The dam was originally constructed in approximately 1901 and has been, more recently, resurfaced; however, those repairs are failing. The face and toe of the dam are dilapidated, and there is extensive scouring, spalling, and exposed rebar which is plainly visible. In addition, the outlet works that allow live stream flow to bypass the structure are no longer functioning. The diversion is utilized to deliver stored irrigation water from upstream reservoir facilities and is absolutely crucial to the delivery of water within the District.

The study included a physical assessment of the existing diversion structure, a rehabilitation plan, preliminary designs and cost estimates, economic analysis and project financing, and a report comprising the results and recommendations of the work.

PROJECT FINDINGS/RECOMMENDATIONS:

The Consultant has completed the scope of work and all associated deliverables have been submitted to the Office. Rehabilitation options for the structure were analyzed at its current location, as well as at two alternate locations. The on-site investigation included surveying, geotechnical investigation of the earthen embankment portion of the structure, and concrete-coring of the existing diversion dam and associated appurtenances. The report recommends to rehabilitate the existing diversion dam at its current location by installing a concrete overlay, new gate structure, sluiceway, and stilling basin. The concrete overlay design will incorporate an ogee crest and stepped spillway, allowing larger flood events to pass over the structure,

eliminating the need for the auxiliary spillway. Furthermore, the larger slide gates and sluiceway will promote longevity of the rehabilitated structure by bypassing flows whenever possible and providing better sediment management on the upstream side of the diversion. Results of the stated geotechnical investigation revealed saturation and weakness in the earthen embankment portion of the structure and the floodplain deposits. Additionally, the existing left abutment wall is failing and at the end of its useful life, therefore should be removed and replaced. For these reasons, it has been recommended to excavate all of the existing dam fill and floodplain deposits to bedrock to access the abutment wall and rebuild the embankment at a 3:1 slope with the appropriate compaction.

The total project cost equates to \$5,220,000, and it is recommended that the District pursue WWDC Level III funding in the form of a 67% grant/33% loan.

A Draft Results Presentation and Public Hearing was held in July in Wheatland, and no formal comment on the project or recommendation was received.

PUBLIC REPORT PRESENTATION HEARING: Y

<u>Date</u>	<u>Location</u>	<u>City/Town</u>
7-23-18	First State Bank, 1405 16 th Street	Wheatland

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

Final Report: http://library.wrds.uwyo.edu/wwdcrept/Wheatland/Wheatland_Irrigation_District-Tunnel_Dam_Rehabilitation_Level_II-Final_Report-2018.html

Executive Summary: http://library.wrds.uwyo.edu/wwdcrept/Wheatland/Wheatland_Irrigation_District-Tunnel_Dam_Rehabilitation_Level_II-Executive_Summary-2018.html

WWDO RECOMMENDATION:

Based on the findings in the final report referenced above, the Office recommends Level III funding of the Wheatland Irrigation District Tunnel Dam Rehabilitation project with a total project budget of \$5,220,000.

WWDC PROPOSED MOTION:

I move acceptance of the Wheatland Irrigation District Tunnel Dam Rehabilitation Level II project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to Level III of project development upon the submittal of an appropriate funding application by the sponsor.
2. Based on the findings in the final report, the project is determined to be in the public interest.
3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.



WYOMING WATER DEVELOPMENT COMMISSION
LEVEL III CONSTRUCTION REPORT
 November-2018



PROJECT: Glenrock Transmission Pipeline 2017 **SPONSOR:** Town of Glenrock

PROJECT DESCRIPTION: Construction of approximately 1,300 feet of 12-inch pipeline to extend the to the northern portion of Glenrock

WWDC MANAGER: Ken Mitchell

FUNDING

WWDC Appropriation:	\$	254,600.00	67.0%	WWDC Account:	I
WWDC Grant Amount:	\$	254,600.00	67.0%	Session Law:	2017
WWDC Loan Amount:	\$	-	0.0%	Reversion Date:	2022

Funding Source #2:	SLIB
Amount:	\$ 125,400.00 33.0%

<u>Total Project Budget:</u>	\$ 380,000.00 100.0%
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ENGINEERING

Engineer:	CEPI	Agreement Date:	Jun-17-2017
Design Fee:	\$ -		
Construction Fee:	\$ <u>131,274.00</u>		
Total Fee:	\$ 131,274.00		

CONSTRUCTION

Bid Opening Date:	Jul-07-2017	Number of Bids:	6
Low Bidder:	Grizzly Construction	Range of Bids:	\$943k - 1.3 Mil
Engineer's Estimate:	\$ 1,362,140.00	Agreement Date:	
Contractor Amount:	\$ 942,894.00	Construction Time:	90 Calendar Days

MISCELLANEOUS COSTS (Easements, Permits, Title Of Opinion, Title Search etc.)

Misc. Costs	\$ -
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PROJECT CLOSEOUT

Final Project Cost:	\$ 1,074,168.00	Date:	Sep-21-2018
WWDC Funding Share:	\$ 254,600.00		
Other Funding Sources:	\$ 125,400.00		
WWDC Reverted Funding:	\$ -		

PROJECT STATUS

The Glenrock Transmission Pipeline 2017 had multiple ineligible components including but not limited to sewer pipe, curb & gutter, paving etc. The appropriation was expended in full, and there is \$0.00 remaining to revert back into account I.



WYOMING WATER DEVELOPMENT COMMISSION
LEVEL III CONSTRUCTION REPORT
 November-2018



PROJECT: Leiter Ditch Rehabilitation 2016 **SPONSOR:** Lower Clear Creek ID

PROJECT DESCRIPTION: Rehabilitation of Leiter Ditch to obtain desired flow.

WWDC MANAGER: Ken Mitchell

FUNDING

WWDC Appropriation:	\$	1,310,000.00	100.0%	WWDC Account:	II
WWDC Grant Amount:	\$	877,700.00	67.0%	Session Law:	2016
WWDC Loan Amount:	\$	432,300.00	33.0%	Reversion Date:	2021

Funding Source #2:	N/A				
Amount:	\$	-	0.0%		

Total Project Budget:	\$	1,310,000.00	100.0%		
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ENGINEERING

Engineer:	AVI Engineering	Agreement Date:	Sep-01-2017
Design Fee:	\$ 100,202.00		
Construction Fee:	\$ 85,377.00		
Total Fee:	\$ 185,579.00		

CONSTRUCTION

Bid Opening Date:	Aug-23-2018	Number of Bids:	2
Low Bidder:	Barnum Inc.	Range of Bids:	\$1.3 - \$2.2 Mil
Engineer's Estimate:	\$ 1,200,000.00	Agreement Date:	Oct-08-2018
Contractor Amount:	\$ 1,259,206.35	Construction Time:	90 calendar days

MISCELLANEOUS COSTS (Easements, Permits, Title Of Opinion, Title Search etc.)

Misc. Costs	
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PROJECT CLOSEOUT

Final Project Cost:	Date:
WWDC Funding Share:	
Other Funding Sources:	
WWDC Reverted Funding:	

PROJECT STATUS

The Leiter Ditch project is currently under construction, and it is expected to be completed by early fall of 2019.



WYOMING WATER DEVELOPMENT COMMISSION
LEVEL III CONSTRUCTION REPORT
 November-2018



PROJECT: Riverton Valley Rehab 2013

SPONSOR: Riverton Valley Irrigation District

PROJECT DESCRIPTION: Lateral Rehabilitation

WWDC MANAGER: Verplancke

FUNDING

WWDC Appropriation:	\$ 137,000.00	WWDC Account:	II
WWDC Grant Amount:	\$ 137,000.00	Session Law:	2013
WWDC Loan Amount:	\$ -	Reversion Date:	2018

WWDC reimburses Sponsor for 100% of invoiced materials costs only

Funding Source #2:
 Amount:
 Sponsor is responsible for project Labor, Equipment and Engineering

Total Project Budget: \$ 137,000.00

ENGINEERING

Engineer:	Apex	Agreement Date:	
Design Fee:	NA		
Construction Fee:	NA		
Total Fee:	\$ -		

CONSTRUCTION

Bid Opening Date:	Oct-10-2013	Number of Bids:	1
Low Bidder:	Killebrew Irrigation	Range of Bids:	0
Engineer's Estimate:	\$ 52,895.00	Agreement Date:	Oct-25-2013
Contractor Amount:	\$ 41,546.09	Construction Time:	0
Bid Opening Date:	Oct-10-2013	Number of Bids:	1
Low Bidder:	Cretex	Range of Bids:	0
Engineer's Estimate:	\$ 14,765.00	Agreement Date:	Oct-25-2013
Contractor Amount:	\$ 4,795.90	Construction Time:	0

MISCELLANEOUS COSTS (Easements, Permits, Title Of Opinion, Title Search etc.)

Misc. Costs	\$ 18,055.79
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PROJECT CLOSEOUT

Final Project Cost:	\$ 75,746.79	Date:	Jul-03-2018
WWDC Funding Share:	\$ 75,746.79		
Other Funding Sources:			
WWDC Reverted Funding:	\$ 61,253.21		

PROJECT STATUS

This project is completed and closed out.



WYOMING WATER DEVELOPMENT COMMISSION
LEVEL III CONSTRUCTION REPORT
 November-2018



PROJECT: Sundance Tank 2018

SPONSOR: Town of Sundance

PROJECT DESCRIPTION: Design and construction of a replacement storage tank and demolition of existing tanks

WWDC MANAGER: Ken Mitchell

FUNDING

WWDC Appropriation:	\$	722,930.00	67.0%	WWDC Account:	I
WWDC Grant Amount:	\$	722,930.00	67.0%	Session Law:	2018
WWDC Loan Amount:			0.0%	Reversion Date:	2023

Funding Source #2:	Town of Sundance				
Amount:	\$	356,070.00	33.0%		

Total Project Budget:	\$	1,079,000.00	100.0%		
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ENGINEERING

Engineer:	Trihydro Engineering	Agreement Date:	Aug-16-2018
Design Fee:	\$	111,507.00	
Construction Fee:	\$	<u>32,868.00</u>	
Total Fee:	\$	144,375.00	

CONSTRUCTION

Bid Opening Date:	Number of Bids:
Low Bidder:	Range of Bids:
Engineer's Estimate:	Agreement Date:
Contractor Amount:	Construction Time:

MISCELLANEOUS COSTS (Easements, Permits, Title Of Opinion, Title Search etc.)

Misc. Costs

PROJECT CLOSEOUT

Final Project Cost:	Date:
WWDC Funding Share:	
Other Funding Sources:	
WWDC Reverted Funding:	

PROJECT STATUS

This project is in the design phase.



WYOMING WATER DEVELOPMENT OFFICE

6920 Yellowtail Road
Cheyenne, WY 82002

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wwdc.state.wy.us

Matthew H. Mead
Governor

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Director

MEMO

To: Harry LaBonde Jr., Director, WWDO
Bryan Clerkin, Deputy Director, Construction Division, WWDO

From: Keenan Hendon, Project Manager

Subject: Shoshone Irrigation District Rehabilitation 2017

Date: 11/1/18

The Shoshone Irrigation District Rehabilitation 2017 Project is a Level III project authorized in 2017 Wyoming Session Laws, Chapter 75. The Shoshone Irrigation District is the sponsor of the project. The purpose of the project is to rehabilitate Garland Drop Structure #24, Garland Drop Structure #26, Lateral 46F, Lateral 2W, and Lateral 23B. The current appropriation is a 100% materials only grant in the amount of \$234,000. The Sponsor is paying all expenses related to design, legal fees, land rights, construction labor and equipment, and construction engineering costs.

In 2017, the Sponsor bid, awarded and constructed the Garland Drop Structure #24 and Lateral 46F. During October of 2018, the Sponsor bid the Garland Drop #26, Lateral 2W and Lateral 23B. Bids were received on October 24, 2018. The bids received for the remaining project items were in excess of available funding.

It appears an additional **\$15,000** will be required to complete the project. This will allow the project to be awarded to the current low bidder and provide for a 5% contingency on invoiced items. The Sponsor is currently requesting additional funds in the amount of \$15,000 to help cover the project costs from the Water Development Account II – Sponsors Contingency Fund.

Current Appropriation:

WWDC Materials Only Grant	\$	234,000
Total Funding	\$	234,000

Project Commitments:

Garland Drop Structure #24	\$	57,502
Lateral 46F	\$	35,298
Total Committed	\$	92,800

Remaining Project Items:

Garland Drop Structure #26	\$	21,945
Lateral 2W	\$	64,840
Lateral 23-B	\$	40,202
Invoiced Materials (concrete, rebar, bedding, gates, etc.)	\$	27,338
Contingency (5% of Invoiced Items)	\$	1,367
Total	\$	155,692
Total Project Costs	\$	248,492

Appropriation with Additional Funding:

WWDC Materials Only Grant	\$	249,000
Total Funding	\$	249,000

The WWDO staff recommends to the Wyoming Water Development Commission to authorize the use of **\$15,000** from the Water Development Account II – Sponsor’s Contingency Fund for the Shoshone Irrigation District Rehabilitation 2017 Project, and approve an Amendment to the Project Agreement to allow for the additional funds to complete the project.

**DRAFT ONLY
NOT APPROVED FOR
INTRODUCTION**

HOUSE BILL NO. [BILL NUMBER]

Senate confirmation of water appointments.

Sponsored by: Select Water Committee

A BILL

for

1 AN ACT relating to water; providing for senate confirmation
2 of gubernatorial appointees of water district superintendents
3 and commissioners on interstate water compacts; and providing
4 for an effective date.

5

6 *Be It Enacted by the Legislature of the State of Wyoming:*

7

8 **Section 1.** W.S. 41-3-502 and 41-11-202 are amended to
9 read:

10

11 **41-3-502. Superintendents; appointment; removal;**
12 **number; qualifications; examination.**

13

1 There shall be one (1) superintendent for each division, who
2 shall be appointed by the governor ~~and who~~ with the advice
3 and consent of the senate in accordance with W.S. 28-12-101
4 through 28-12-103 and who may be removed by the governor as
5 provided in W.S. 9-1-202. Each superintendent shall be a
6 resident of the water division for which he is appointed. ~~The~~
7 ~~governor may remove any superintendent as provided in W.S.~~
8 ~~9-1-202.~~ The state engineer shall from time to time conduct
9 examinations for candidates for the position of division
10 superintendents, and a list of those who qualify shall be
11 filed with the governor and the governor, from that list,
12 shall appoint division superintendents as provided in this
13 section for the various divisions as vacancies occur. No
14 candidate is eligible for appointment as division
15 superintendent unless he is qualified by training and
16 experience. The examination shall consist of questions
17 relative to the irrigation laws and their administration, the
18 measurement of flowing water, evaporation, seepage, drainage
19 and the hydrographic features of the water division in which
20 the candidate seeks appointment.

21

1 **41-11-202. Designation of commissioners to represent**
2 **state on all interstate compacts; service of governor on**
3 **compact commission.**

4
5 As provided in this section, the governor of Wyoming shall
6 appoint and designate such commissioners as may be necessary
7 to represent the state of Wyoming on all negotiated interstate
8 compacts, unless the compacts by their terms otherwise
9 provide. Commissioners appointed by the governor under this
10 section shall be appointed with the advice and consent of the
11 senate in accordance with W.S. 28-12-101 through 28-12-103
12 and may be removed by the governor as provided in W.S.
13 9-1-202. The governor of Wyoming, at his option, may serve as
14 a commissioner for Wyoming on any compact commission, if
15 permitted under the terms of the compact. ~~The governor may~~
16 ~~remove any commissioner he appoints as provided in W.S.~~
17 ~~9-1-202.~~

18
19 **Section 2.** This act is effective immediately upon
20 completion of all acts necessary for a bill to become law as
21 provided by Article 4, Section 8 of the Wyoming Constitution.

22
23

(END)

2019 WWDC/SWC MEETING SCHEDULE
(Sept. 2018)

DECEMBER

December 12-13, 2018	Wed-Thurs	WWDC Workshop/Meeting – Final Funding Recommendations (Cheyenne)
December 14, 2018	Friday	SWC – Review Draft Funding Bills (Cheyenne)

MARCH

March 14, 2019	Thursday	WWDC Workshop (Cheyenne)
March 15, 2019	Friday	WWDC Meeting (Contract Approval)
TBD		SWC Meeting (Contract Approval)

MAY

May 16, 2019	Thursday	WWDC/SWC Workshop (Cheyenne)
May 17, 2019	Friday	WWDC/SWC Joint Meeting (New Level I & II Apps Review/approval)

AUGUST

August 14-16, 2019	Wed-Fri	WWDC/SWC Workshop/Summer Tour/ Meeting (TBD)
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OCTOBER

October 1-3, 2019	Tues-Thurs	Consultant Selection Interviews (Cheyenne)
October 4, 2019	Friday	WWDC Meeting, Selection Approval

NOVEMBER

November 6, 2019	Wednesday	WWDC/SWC Workshop (Casper)
November 7-8, 2019	Thurs-Fri	WWDC/SWC Joint Meeting (Preliminary Funding Recs prior to WyoLeg)