

A G E N D A

UTAH BOARD OF WATER RESOURCES

Crystal Inn
Cherokee Room
1450 S. Hilton Drive
St. George, Utah

March 16, 2016

2:30 p.m.

1. CALL TO ORDER
2. APPROVAL OF MINUTES - February 11, 2016
3. CHAIR'S REPORT
4. FEASIBILITY REPORT County
E375 Whiterocks Irr. Co. Uintah
5. COMMITMENT OF FUNDS REPORT Utah
E308 Summit Creek Irr. Co. (Phase III)
6. SPECIAL ITEM REPORTS Summit
E297 North Summit Pressurized Irr. Co.
(Additional Funds)
E353 Green River Canal Co. (Additional Funds)
Emery/Grand E327 Holmes Creek Irr. Co. (Withdrawal)
Davis
7. DAM SAFETY REPORTS Uintah
C047 Ouray Park Irr. Co. (Cliff Lake Dam)
8. LAKE POWELL PIPELINE PROJECT REPORT
9. MWH AMERICAS, INC. CONTRACT AMENDMENT
10. WATER CONSERVATION UPDATE Washington County WCD
11. DIRECTOR'S REPORT
12. ADJOURNMENT

BRIEFING MEETING AGENDA

UTAH BOARD OF WATER RESOURCES

Crystal Inn
Garden Room
1450 S. Hilton Drive
St. George, Utah

March 16, 2016

1:15 p.m.

- I. WELCOME/CHAIR'S REPORT Chairman Lemmon

- II. DISCUSSION OF PROJECTS

- III. OTHER ITEMS

BOARD OF WATER RESOURCES

REVOLVING CONSTRUCTION FUND

**Funding Status
March 16, 2016**

Funds Available for Projects This FY \$ 12,159,000

Projects Contracted This FY

1 Kaysville Irrigation Co (additional funds)	C044	**Grant	\$ 301,500	
2 North Utah County WCD (Silver Lake Flat)	C048	**Grant	1,481,000	
3 Red Creek Irrigation Co (additional funds)	C045	**	170,000	
4 Red Creek Irrigation Co (additional funds)	C045	**Grant	1,530,000	
5 Red Creek Irrigation Co	E356		493,000	
6 New Escalante Irrigation Co (additional funds)	C035	**Grant	<u>88,000</u>	
Total Funds Contracted				\$ 4,064,000
Funds Balance				\$ 8,095,000

Projects with Funds Committed

1 Bear River Canal Co	E377		\$ 659,000	
2 Daniel Irrigation Co	E370		240,000	
3 Marion Waterworks Co	E322		247,000	
4 North Utah County WCD (Tibble Fork)	C052	**Grant	1,512,000	
5 Rockville Town Ditch Co	E313		145,000	
* 6 Ouray Park Irrigation Co (Cliff Lake)	C047	**Grant	968,000	
* 7 Ouray Park Irrigation Co (Cliff Lake)	C047	**	<u>107,000</u>	
Total Funds Committed				\$ 3,878,000
Funds Balance				\$ 4,217,000

Projects Authorized

1 Ephraim Irrigation Co	E361		\$ 497,000	
2 Salem Pond Co	E329		93,000	
3 Settlement Canyon Irrigation Co	E240R2		<u>552,500</u>	
Total Funds Authorized				\$ 1,143,000
Remaining Funds Available				# \$ 3,074,000

* To be presented at Board Meeting
** Dam Safety Projects

End of year balance if all listed projects were fully paid

BOARD OF WATER RESOURCES

CITIES WATER LOAN FUND

Funding Status
March 16, 2016

Funds Available for Projects This FY \$ 10,203,000

Bonds Closed This FY

1 Weber-Box Elder WCD	E326	\$ 1,700,000	
Total Bonds Closed			\$ 1,700,000
Funds Balance			\$ 8,503,000

Projects with Funds Committed

1 NONE			
Total Funds Committed			\$ -
Funds Balance			\$ 8,503,000

Projects Authorized

1 Duchesne County WCD	E334	\$ 3,000,000	
2 Herriman City	E344	4,930,000	
Total Funds Authorized			\$ 7,930,000
Remaining Funds Available		#	\$ 573,000

* To be presented at Board Meeting

End of year balance if all listed projects were fully paid

BOARD OF WATER RESOURCES

March 16, 2016

ADDITIONAL ACTIVE PROJECTS

Sponsor	No.	Fund	Est. Board Cost	Total Cost
1 Sanpete WCD (Narrows Dam)	D377	C&D	\$29,325,000	\$ 34,500,000
2 Kane County WCD	D828	C&D	1,500,000	2,000,000
3 Weber Basin WCD (Secondary, Ph 3-5)	E029R3+	C&D	21,639,000	25,816,000
4 Hooper Irr Co (Press Irr, Ph 3+)	E060R3+	C&D	11,033,000	12,980,000
5 East Juab County WCD	E071	C&D	425,000	500,000
6 Parowan City (Bond Ins Grant)	E121	C&D	34,000	2,034,000
7 Fremont Irr Co	E131	C&D	1,500,000	2,000,000
8 Fountain Green Irr Co (Flow Augment)	E186	RCF	75,000	100,000
9 Corinne City	E216	C&D	80,000	100,000
10 Weber Basin WCD	E312	C&D	85,000,000	100,000,000
11 South Willard Water Co	E317	C&D	1,700,000	2,000,000
12 Ferron Canal & Res Co	E320	C&D	2,720,000	3,200,000
13 Fountain Green Co-op Well	E328	RCF	255,000	300,000
14 Co-op Farm Irrigation Co	E340	RCF	159,000	187,000
15 La Sal Irrigation Co	E354	C&D	1,530,000	1,800,000
16 New Fayette Irrigation Co	E360	C&D	850,000	1,000,000
17 Moon Lake Water Users Association	E362	C&D	1,382,000	3,250,000
18 Wellsville-Mendon Conservation District	E364	C&D	680,000	800,000
19 Washington County Flood Control Authority	C049	RCF	970,000	3,077,000
20 Washington County Flood Control Authority	C050	RCF	582,000	1,847,000
21 Washington County Flood Control Authority	C051	RCF	473,000	1,500,000
22 Highline Canal Co	E372	C&D	3,087,000	13,942,000
23 Ashley Upper Irr Co	E373	C&D	5,255,000	13,942,000
24 Mosby Irr Co	E374	RCF	331,000	4,379,000
25 Benson Irr Co	E378	C&D	1,250,000	2,446,000
26 East Wanship Irr Co	E379	RCF	645,000	950,000
27 Blanding Irr Co	E380	RCF	374,000	440,000
* 28 Silver Creek Reservoir Co	E381	RCF	500,000	1,090,000
* 29 Spanish Fork South Irr Co	E382	RCF	885,000	1,185,000
* 30 O.T. Hicken Ditch Co	E383	RCF	430,000	990,000
* 31 Scipio Irr Co	E384	C&D	1,660,000	2,950,000
* 32 Woodruff Irr Co	E385	C&D	<u>5,000,000</u>	<u>6,885,000</u>
Subtotal			\$181,329,000	\$ 248,190,000
* New Application				

INACTIVE PROJECTS

Long Term Large Water Conservation Projects

1 Wayne County WCD	D494
2 Cedar City Valley Water Users	D584
3 Bear River WCD	D738
4 Central Utah WCD (Prepay FY98,99,00)	D960
5 Woodruff Irr Co (Woodruff Cr Dam Enlargement)	E059

BOARD OF WATER RESOURCES

Feasibility Report

Conservation and Development Fund

Appl. No.: **E-375**
Received: 7/30/15
Approved: 8/13/15

To be Presented at the March 16, 2016 Board Meeting

SPONSOR: **WHITEROCKS IRRIGATION COMPANY**

President: Tyson Murray

LOCATION: The proposed project is located north and east of Lapoint in Uintah County.

EXISTING CONDITIONS & PROBLEMS: The Whiterocks Irrigation Company supplies irrigation water to approximately 6,600 acres of farm ground and the Tridell-Lapoint Water Improvement District. The Tridell-Lapoint Water Improvement District provides culinary water to the towns of Tridell, Lapoint, and part of Fort Duchesne. The main source of the water is the Whiterocks River, with supplemental flow from five reservoirs in the high Uintas and Lapoint and M&S reservoirs. Water is delivered through the Whiterocks Canal, an unlined, 16 mile-long facility used to carry water to users and fill M&S and Lapoint reservoirs. Approximately 4,400 of the 6,600 acres of farm ground are served by water from these two reservoirs.

Mosby Irrigation Company diverts water from Dry Fork and Deep Creek drainages to irrigate approximately 5,000 acres. Over 900 acres receive water from Red Wash Reservoir via the unlined, 3.5 mile-long Mosby Canal. The two companies have adjacent service areas at the bottom of their systems.

It has been estimated that approximately 4,000 acre-feet are lost to seepage in the Whiterocks Canal in the 10-mile stretch from the canal diversion into M&S Reservoir through the southern end of Whiterocks' service area, and 880 acre-feet are lost in the Mosby

Canal from Red Wash Reservoir through the southern end of Mosby's service area.

In an effort to reduce the amount of irrigation water lost to seepage in the area, the sponsor successfully applied for a Colorado River Salinity Control Program grant on behalf of itself and the Mosby Irrigation Company to pipe the majority of their open canals.

PROPOSED PROJECT:

The sponsor is requesting financial assistance from the board to install nearly ten miles of 42-inch to 16-inch HDPE pipe. Over ten miles of the Whiterocks Canal (from the canal diversion into M&S Reservoir to the southernmost part of the service area) may be abandoned as it is anticipated the water to fill Lapoint Reservoir will flow through M&S Reservoir and its existing outlet pipeline, and then into the Lapoint Reservoir feeder canal. The upper 5.8 mile-long stretch of canal from its diversion on the Whiterocks River to the M&S Reservoir inlet will remain open. The 3.5 mile-long Mosby Canal will be replaced by the proposed project. The lower service area of the two companies will be served by a common pipeline.

It is anticipated that 1,200 acres may be converted from flood to sprinkle irrigation with the proposed project.

The sponsor has yet to hire a design engineer. Henrie Engineering has provided preliminary engineering to complete an application for a Colorado River Salinity Control Program grant.

COST ESTIMATE:

The following cost estimate is based on one developed for the Colorado River Salinity Control Program grant application:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
1.	Mobilization	LS	\$75,000	\$ 75,000
2.	Pipe			
	a. 42-in. HDPE	8,000 LF	104	832,000
	b. 36-in. HDPE	9,000 LF	80	720,000
	c. 34-in. PVC	3,500 LF	72	252,000
	d. 30-in. PVC	3,400 LF	58	197,200
	e. 20-in. HDPE	14,400 LF	31	446,400
	f. 16-in. HDPE	12,800 LF	23	294,400

3. Fittings & Valves	LS	165,000	165,000
4. Intake Structures	LS	200,000	200,000
5. Connections	LS	135,000	135,000
6. Road Crossings	LS	77,000	<u>77,000</u>
Construction Cost			\$3,394,000
Contingencies			331,000
Environmental & Cultural Compliance			275,000
Legal and Administrative			50,000
Design and Construction Engineering			<u>450,000</u>
TOTAL			\$4,500,000

COST SHARING
& REPAYMENT:

The recommended cost sharing and repayment are:

<u>Agency</u>	<u>Cost Sharing</u>	<u>% of Total</u>
Board of Water Resources	\$1,785,000	39.7%
Salinity Control Grant	2,400,000	53.3
Sponsor	<u>315,000</u>	<u>7.0</u>
TOTAL	\$4,500,000	100%

If the board authorizes the project, it is suggested it be purchased at 1% interest over 13 years with annual payments of approximately \$149,000.

The sponsor has obtained a grant through the Colorado River Salinity Control Program. It is anticipated that project construction will begin in the fall of this year.

ECONOMIC
FEASIBILITY:

A project is economically feasible if its benefits outweigh its costs. In this case the primary benefits are increased crop yield and the value of the decreased salt loading in the Colorado River system. When the value of these benefits over the 50-year life of the project are discounted to present value and compared to total project construction costs, the benefit to cost ratio is 1.36.

FINANCIAL
FEASIBILITY:

Benefits will include increased crop yields and reduction in operation and maintenance costs as follows:

Annual Net Increased Crop Income	\$415,000
Reduced Operation & Maintenance Costs	25,000
Annual On-farm Sprinkler and Pipe Costs	<u>-63,000</u>
NET ANNUAL BENEFIT	\$377,000

With the proposed board cost share of the project being 39.7%, it is suggested the sponsor's repayment ability be calculated as 39.7% of the net annual benefit calculated above, or approximately \$149,700. This equals \$28.25 per acre based on the 5,300 acres under the project. Recent assessments have been \$26 per share for the sponsor and \$30 per share for Mosby Irrigation Company annually, with one share allotted per acre.

The proposed annual payment would require the sponsor to double its assessment. Company officials doubt shareholders would go along with such a large increase.

BENEFITS:

Completing the proposed project will eliminate approximately 13.5 miles of open canal, conserving approximately 4,880 acre-feet every year. Operation and maintenance of the system will be enhanced and cost will be reduced. It is estimated that 1,635 tons of salt loading will be eliminated from the Colorado River system annually with the project.

**PROJECT
SPONSOR:**

The Whiterocks Irrigation Company was originally organized in 1932 and includes approximately 103 stockholders holding 6,646 shares. The sponsor is registered in good standing with the state Department of Commerce. Mosby Irrigation Company was incorporated in 1935 and is also in good standing with the Department of Commerce. Its 40 shareholders own 3,185 shares of stock.

The sponsor has received funding from the board on seven previous occasions, including dam safety studies and the construction of Lapoint (1985) and M&S (2011) dams. It also received funding in 2009 for construction of a structure and 600 feet of pipe at Merkley Drop.

Mosby Irrigation Company has received funding from the board to make improvements to canals and to construct Julius Park (1974) and Red Wash (2004) dams.

**WATER RIGHTS
& SUPPLY:**

The sponsor's water rights are based on Water Right numbers 43-503, 43-3042, and 43-3053, which allow it to divert up to 91.8 cfs from the Whiterocks Canal and store water in its reservoirs. These water rights are in the name of the board from previous projects.

Mosby Irrigation Company utilizes a number of water rights that allow it to divert from various sources in Dry Fork and Deep Creek drainages. Its two main water rights, 45-515 and 43-3743, are associated with this project and are for the diversion of up to 30 cfs and storage of 2,175 acre-feet in Red Wash Reservoir. These two rights, as well as others, are in the name of the board from previous projects.

EASEMENTS: The proposed project will primarily be constructed along the existing canals' alignment. Wherever it diverges, easements will need to be obtained.

ENVIRONMENTAL: No negative, long-term environmental impact is anticipated due to the project. Piping the canals and converting from flood to sprinkle irrigation will remove an estimated 1,635 tons of salt from the Colorado River system. As part of the Salinity Control funding, a Habitat Replacement Plan will be developed to mitigate damages to habitat due to the project.

WATER CONSERVATION: The project will conserve approximately 4,880 acre-feet annually, which will be used in the sponsor's and Mosby Irrigation Company's service areas. The sponsor will be required to update its Water Management and Conservation Plan and have it approved by the division.

SPONSOR'S RESPONSIBILITIES: If the board authorizes the proposed project, the sponsor must do the following before a funding agreement can be executed:

1. Obtain all easements, rights-of-way, and permits required to construct, operate, and maintain the project.
2. Execute a service agreement with Mosby Irrigation Company governing water rights, and the operation, maintenance and funding aspects of the project
3. Pass a resolution by the appropriate (as defined in the company's Articles of Incorporation and Bylaws) majority of company stock authorizing its officers to do the following:

- a. Assign properties, easements, and water rights required for the project to the Board of Water Resources.
 - b. Enter into a contract with the Board of Water Resources for construction of the project and subsequent purchase from the Board.
4. Have an attorney give the Board of Water Resources a written legal opinion that:
 - a. The company is legally incorporated for at least the term of the purchase contract and is in good standing with the state Department of Commerce.
 - b. The company has legally passed the above resolution in accordance with the requirements of state law and the company's Articles of Incorporation and Bylaws.
 - c. The company has obtained all permits required for the project.
 - d. The company owns all easements and rights-of-way for the project, as well as the land on which the project is located, and that title to these easements, rights-of-way, and the project itself can be legally transferred to the Board.
 - e. The company is in compliance with sections 73-10-33, 10-9a-211, and 17-27a-211 of the Utah Code.
5. Obtain approval of final plans and specifications from the Division of Water Resources.
6. Update its water management and conservation plan for its service area, and obtain approval of it from the Division of Water Resources.
7. Obtain letters from all outside financing agencies establishing their commitment of funds to the project.
8. Be in compliance with Section 73-10-33, Section 10-9a-211, and Section 17-27a-211 of the Utah Code.

PROJECT
CONTACT
PEOPLE:

Whiterocks President: Tyson Murray
P.O. Box 433
Lapoint, UT 84039
Phone: 435-790-2025

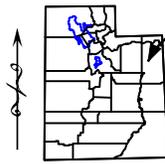
Secretary: Josie Nyberg
Phone: 435-790-8414

Mosby President: Chris Walker
P.O. Box 453
Lapoint, UT 84039
Phone: 435-823-6403

Engineer: Jay Henrie
1829 South 100 West
Orem, UT 84058
Phone: 801-885-7444

Whiterocks Irrigation Canal Piping Project

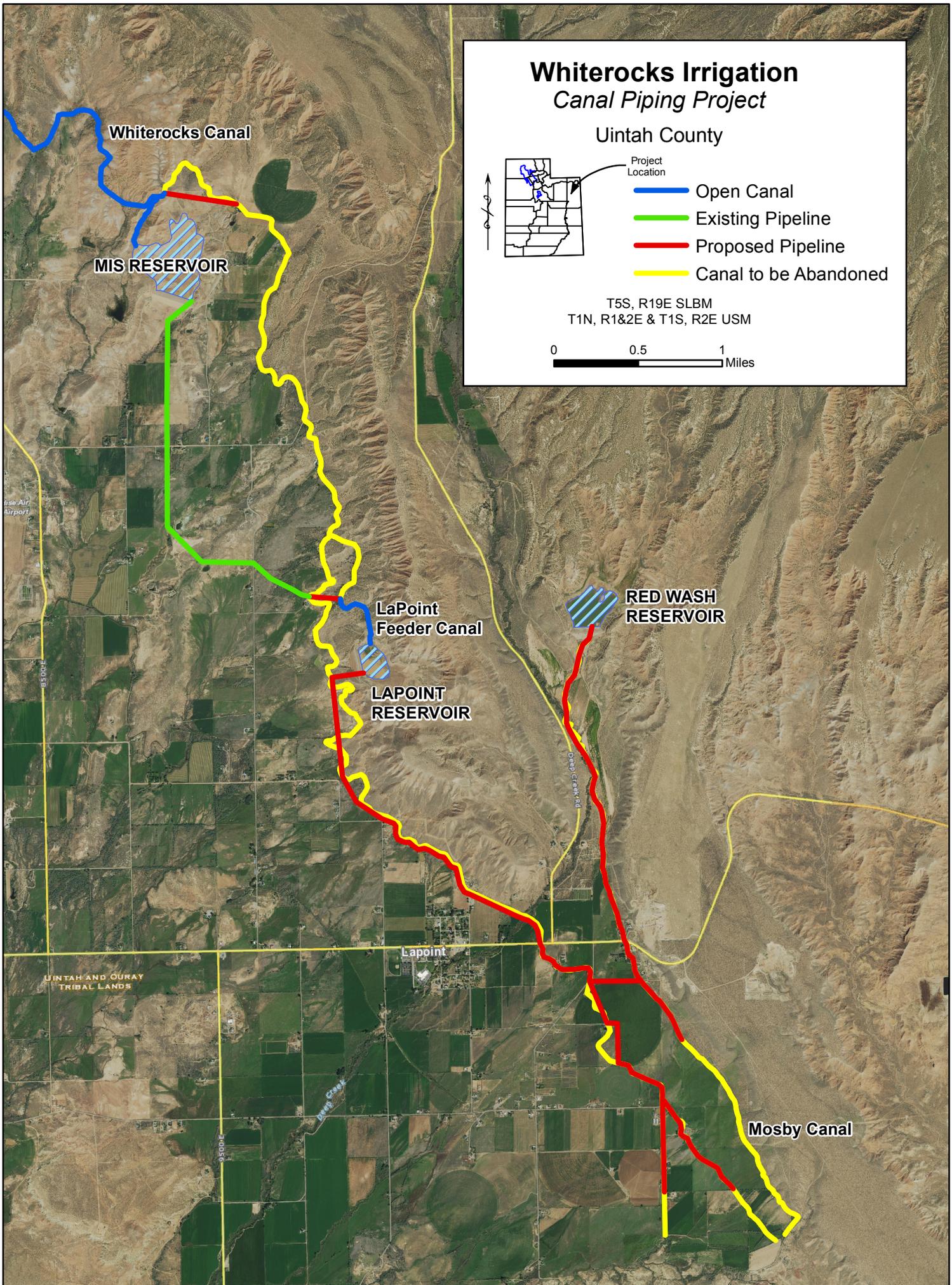
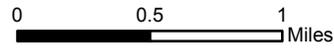
Uintah County



Project Location

- Open Canal
- Existing Pipeline
- Proposed Pipeline
- Canal to be Abandoned

T5S, R19E SLBM
T1N, R1&2E & T1S, R2E USM



BOARD OF WATER RESOURCES

Committal of Funds

Conservation and Development Fund

Appl. No.: **E-308**
Received: 2/8/12
Authorized: 3/14/12
Committed: 3/14/12 (Phase 1)
Committed: 3/20/13 (Phase 2)

To be Presented at the March 16, 2016 Board Meeting

SPONSOR: **SUMMIT CREEK IRRIGATION AND CANAL COMPANY**

President: Philip B. Rowley
165 West 200 North
P.O. Box 700
Santaquin, UT 84655
Phone: 801-754-5511 ext.
212

LOCATION: The proposed project is located in and around
Santaquin City in Utah County.

PROJECT SUMMARY: In March 2012 the board authorized an extensive water
management project for Summit Creek Irrigation
Company, to be completed in three phases. The total
cost of the project was estimated at \$3,400,000.

Work on Phases 1 and 2 has been completed, including
repair of the breach in Summit Creek Dam #1,
replacement of the outlet gate of Summit Creek Dam
#2, piping the remaining 3,220 feet of the sponsor's
main canal, installing control structures, modifying
about 20,000 feet of open canal, and laying
approximately 3,700 feet of pipe for flood control.
The approximate cost of Phases 1 and 2 was
\$1,900,000.

Originally, the 3rd phase of this project included
the installation of recharge basins and a recovery
well. These structures were intended to work in
conjunction to store excess flood water in the ground
before being recovered and used in the irrigation

system. After the locations of the recharge basins were designated, it was determined that an existing irrigation well was already in a favorable location downstream of the recharge basins and would be capable of recovering the recharged water. By designating an existing well as a recharge recovery well, however, the sponsor was left with a shortage in groundwater pump capacity.

Permits required for the construction of the recharge basins are still pending; therefore, the sponsor would like to redefine Phase 3 to include only the drilling of an additional irrigation well. A 4th phase, to be completed at a future point, will be added to the project and will include construction of the recharge basins and conjunctive use of the existing, newly designated recovery well.

Construction on the additional well in Phase 3 was started in February 2016 before funds were committed to the third phase of the project. To reduce construction costs, the sponsor chose to proceed with well drilling without first drilling a test well. Because the sponsor began work before committal of funds by the board, it has agreed to assume risk for the viability of the well. Assuming the well produces adequate amounts of suitable water, it will be furnished with a pump, well house, and all appurtenances necessary for the production of pressurized irrigation water.

COST ESTIMATE: The following cost estimate for Phase 3 is based on the engineer's preliminary design and has been reviewed by staff:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
1.	Well Development	LS	\$170,000	\$170,000
2.	Well Equipment	LS	163,000	163,000
3.	Piping & Appurtenances	LS	128,000	<u>128,000</u>
Construction Cost				\$461,000
Contingencies				53,000
Legal and Administrative				20,000
Design and Construction Engineering				<u>56,000</u>
TOTAL				\$590,000

COST SHARING: The recommended cost sharing for Phase 3 is as follows:

<u>Agency</u>	<u>Phase 3 Cost Sharing</u>	<u>% of Total</u>	<u>Ph. 1, 2, 3 Cost Sharing</u>	<u>% of Total</u>
BWRe	\$502,000	85%	\$1,692,000	85%
Sponsor	<u>88,000</u>	<u>15</u>	<u>298,000</u>	<u>15</u>
TOTAL	\$590,000	100%	\$1,990,000	100%

PURCHASE
AGREEMENT:

Phases 1 and 2 of the project are being repaid at 2.5% interest over 25 years with annual payments of \$65,000. If the board commits funds for 85% of the Phase 3 project cost, up to \$502,000, it is recommended the existing purchase agreement be amended to include 85% of all three phases of the project, up to \$1,990,000, to be purchased at 2.5% interest over a period of 25 years with annual payments of approximately \$95,000.

BOARD OF WATER RESOURCES

Special Item

Additional Funds

Conservation and Development Fund

Appl. No.: **E-297**
Received: 5/10/11
Approved: 6/9/11
Authorized: 8/11/11
Committed: 12/7/12
Amended: 5/18/15

To be Presented at the March 16, 2016 Board Meeting

SPONSOR: **NORTH SUMMIT PRESSURIZED IRRIGATION COMPANY**

President: Ross Pace
1480 South Hoytsville Road
Coalville, UT 84017
Phone: 435-901-3833

LOCATION: The proposed project is located between Wanship and Coalville in Summit County.

PROJECT SUMMARY: The board has committed \$4.255 million towards a project to install a pressurized irrigation system to serve the agricultural area between Wanship and Coalville. Project construction is substantially complete and the system was put into operation mid-summer last year, after contractor delays and repairs were made.

As construction was wrapping up and final bills were being tallied, the contractor submitted additional monetary claims. After months of negotiation the decision was made to go to mediation. Mediation recently resulted in the contractor being awarded \$365,000 to cover unpaid work and extra claims. Additional engineering and legal charges also resulted from the drawn out process. The sponsor is requesting additional funds from the board to cover the balance of the expenses.

COST ESTIMATE
& SHARING:

The committed and proposed cost estimate and sharing are as follows:

<u>Agency</u>	<u>Committed Cost Sharing</u>	<u>% of Total</u>	<u>Proposed Cost Sharing</u>	<u>% of Total</u>
BWRe	\$4,255,000	59.5%	\$4,485,000	60.4%
BoR Grant	1,000,000	14.0	1,000,000	13.5
Weber Basin	300,000	4.2	300,000	4.0
DWQ Grant	850,000	11.9	850,000	11.5
Sponsor	<u>750,000</u>	<u>10.4</u>	<u>790,000</u>	<u>10.6</u>
TOTAL	\$7,155,000	100%	\$7,425,000	100%

PURCHASE
AGREEMENT:

The current agreement with the board states the project will be purchased at 1% interest over 33 years with annual payments of approximately \$152,100. If the board commits the additional \$230,000 requested to the project, it is suggested the funding agreement be amended to state the board will provide 60.4% of the project cost up to \$4,485,000 and that the project will be purchased at 1% interest over 34 years with annual payments of approximately \$156,300.

BOARD OF WATER RESOURCES

Special Item

Additional Funds

Conservation and Development Fund

Appl. No.: **E-353**
Received: 4/28/14
Approved: 5/8/14
Authorized: 6/12/14
Committal: 8/13/15

To be Presented at the March 16, 2016 Board Meeting

SPONSOR: **GREEN RIVER CANAL COMPANY**

President: Randy Erwin
P.O. Box 638
Green River, UT 84525

LOCATION: The proposed project is located on the Green River, approximately six miles north of Green River City in Emery and Grand counties.

PROJECT SUMMARY: In August 2015 the board committed \$1.2 million towards a project to replace an existing diversion on the Green River near Tusher Wash. The new structure will divert water to canals on both sides of the river and is to include fish and boat passage.

In order to expedite the project, construction bids were solicited and a contractor hired prior to final plans being complete. Bids came in higher than expected and revisions of quantities have increased the project cost. Also, the sponsor had hoped the manufacture of large radial gates needed for the project could be done locally and used as part of its cost share; however, the gates will not be made locally and must be purchased.

The project is currently under construction and is anticipated to be completed before summer.

COST ESTIMATE
& SHARING:

The cost estimate and sharing for the committed project and that proposed are as follows:

<u>Agency</u>	<u>Committed Cost Sharing</u>	<u>% of Total</u>	<u>Proposed Cost Sharing</u>	<u>% of Total</u>
BWRe	\$1,200,000	15.2%	\$1,700,000	20.5%
NRCS Grant	6,066,000	76.8	6,066,000	73.1
US F&W	70,000	0.9	70,000	0.8
UT FF&SL	150,000	1.9	150,000	1.8
Sponsor	414,000	5.2	314,000	3.8
TOTAL	\$7,900,000	100%	\$8,300,000	100%

The sponsor has approached the state legislature requesting grant funding for the project. It has also approached the NRCS and other funding partners to see if additional funding may be available.

PURCHASE
AGREEMENT:

The existing purchase terms are 1% interest over 25 years with annual payments of approximately \$54,500. If the board commits the additional \$500,000 requested, it is suggested the board provide 20.5% of the project cost up to \$1,700,000 with the project to be purchased at 1% interest over 30 years with annual payments of approximately \$65,900.

BOARD OF WATER RESOURCES

Special Item

Withdrawal

Appl. No.: **E-327**
Received: 1/23/13
Approved: 2/7/13
Authorized: 8/14/14

To be Presented at the March 16, 2016 Board Meeting

SPONSOR: **HOLMES CREEK IRRIGATION COMPANY**

President: Alton Fisher
485 South Whitesides Street
Layton, UT 84041
Phone: 801-721-0216

LOCATION: The project is located in Layton City in Davis County.

SUMMARY: The sponsor applied for financial assistance from the board to replace about two miles of pipeline. Since that time, the sponsor has not been able to get financial support from Layton City to be able to afford the cost of the project and has therefore decided not to pursue it.

Staff therefore recommends the application be withdrawn from further consideration by the board.

BOARD OF WATER RESOURCES

Dam Safety

Additional Funds

Conservation and Development Fund

Appl. No.: **C-047**

Committed: 2/13/14

To be Presented at the March 16, 2016 Board Meeting

SPONSOR: **OURAY PARK IRRIGATION COMPANY**

President: David Yeaman
P.O. Box 395
Roosevelt, UT 84066
Phone: 801-707-5120

LOCATION: Cliff Lake Dam is located approximately 29 miles north of Roosevelt in Duchesne County.

SUMMARY: In February 2015 the board committed \$1,000,000 to a dam safety project at Cliff Lake Dam to address sinkhole and seepage issues. Work is essentially complete and included a cutoff trench under the upstream toe of the dam, a blanket extending approximately 50 feet from the trench into the reservoir basin for the entire length of the dam, and a toe drain for the entire length of the downstream toe.

The estimated cost of the proposed improvements at committal was \$1 million; however, final costs have exceeded that amount. It is anticipated an additional \$75,000 will be needed to pay final bills and provide a small contingency.

COST SHARING & REPAYMENT: At the time of committal of funds no dam safety funds were available so the board committed \$1 million from the Conservation and Development Fund as a loan to the sponsor to pay 100% of the project expenses in order to complete the project. The board also

authorized 90% of the project cost, up to \$900,000, to be paid from dam safety grant funds when they became available, in order to pay down the loan. Existing loan terms were 0.1% interest over 20 years with annual payments of \$5,500 the first 19 years and the balance to be paid the final year.

In order to have this dam safety project funded from the Revolving Construction Fund (RCF) as are all the others, it is proposed the board commit \$107,000 in loan funds from the RCF to be returned at 0% interest over 19 years with annual payments of approximately \$5,500 for the first 18 years and the balance being paid the final year. It is also proposed the board authorize a Dam Safety grant of 90% of the project cost up to \$968,000. The existing Conservation and Development Fund (C&D) loan of \$1,000,000 will be paid off with grant and RCF loan funds. The sponsor has recently made one annual payment of \$5,500 towards its C&D fund loan.



San Pitch River

Wales Reservoir

Pipeline Inlet

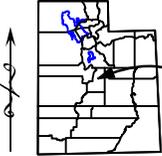
Wales

State St

117

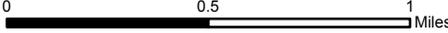
Terminal Structure

Silver Creek Reservoir Company
Canal Piping Project
Sanpete County



— Proposed Pipeline

T15&16S, R3E SLB&M



BOARD OF WATER RESOURCES

Application Summary

Appl. No. **E-382**
Received: 2/22/16

SPONSOR: **SPANISH FORK SOUTH IRRIGATION COMPANY**

President: Neil Anderson
6278 South 4000 West
Spanish Fork, UT 84660
Phone: 801-592-4648

LOCATION: The proposed project is located approximately two miles south of Spanish Fork City in Utah County.

PROPOSED PROJECT: The sponsor is requesting financial assistance from the board to pipe 6,180 feet of canal and provide flow measurement and data collection. The sponsor has also applied for a WaterSMART grant from the Bureau of Reclamation.

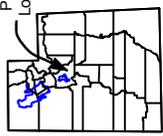
WATER RIGHTS: 51-8603 and 51-8485

COST ESTIMATE: \$1,185,000

Spanish Fork South Irrigation Company

Piping Project & SCADA Locations

Utah County



Project Location



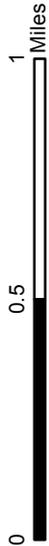
Proposed SCADA Sites



Proposed Pipe



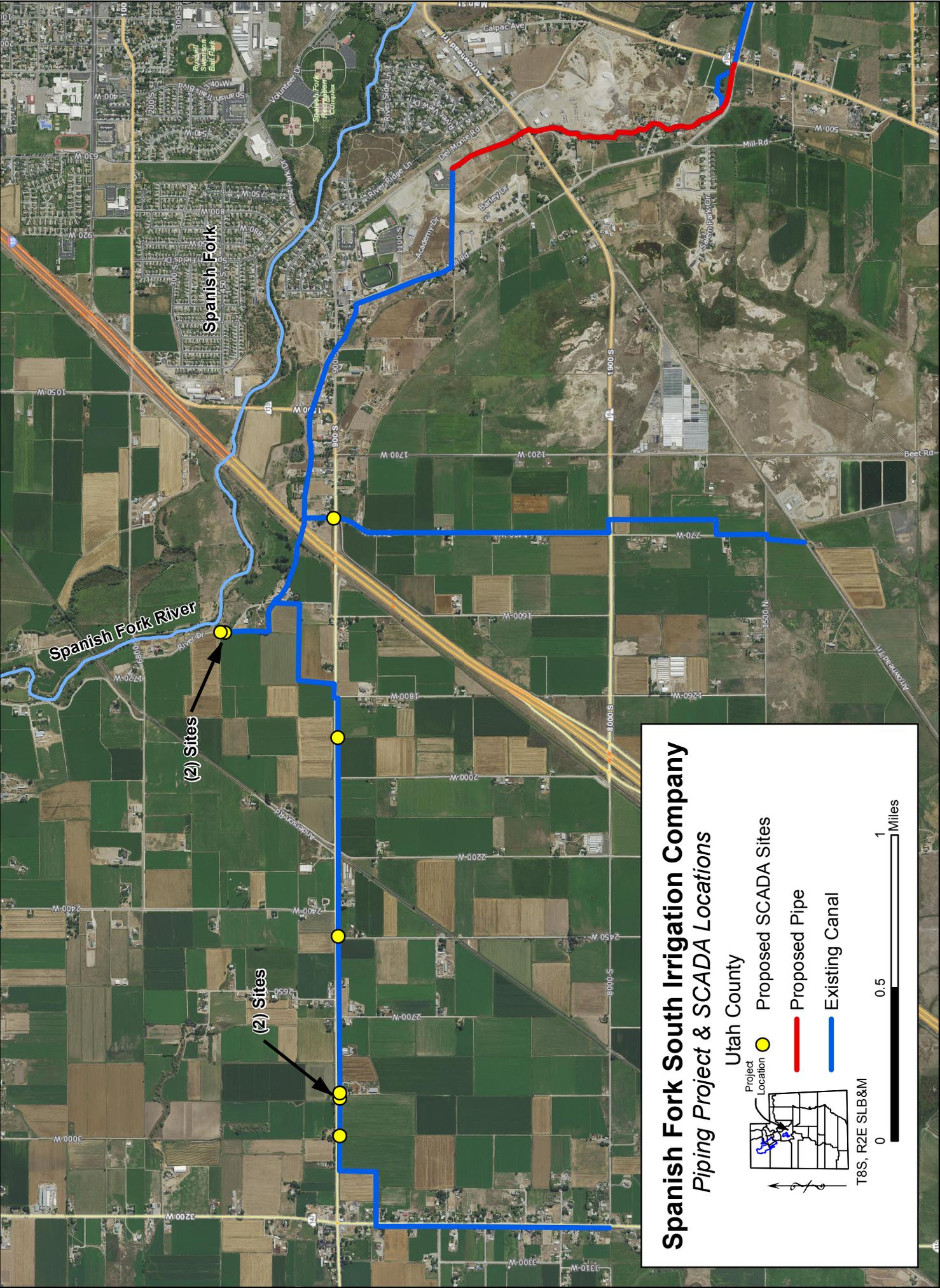
Existing Canal



0 0.5 1 Miles



T8S, R2E SLB&M



BOARD OF WATER RESOURCES

Application Summary

Appl. No. **E-383**
Received: 2/22/16

SPONSOR: **O.T. HICKEN DITCH COMPANY**

President: Craig Thomas
34882 West Hwy 35
Tabiona, UT 84072
Phone: 435-823-5428

LOCATION: The proposed project is located near Tabiona, approximately 20 miles northwest of Duchesne in Duchesne County.

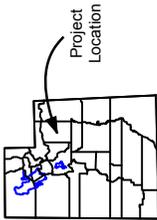
PROPOSED PROJECT: The sponsor is requesting financial assistance from the board to pipe the 4.38 mile long Hicken Ditch. The sponsor has also applied for a WaterSMART grant from the Bureau of Reclamation.

WATER RIGHTS: 43-168, 283, 362, 363, 364, 365, 366, 367, 368, 3802, and 10512

COST ESTIMATE: \$990,000

O.T. Hicken Ditch Company Canal Enclosure

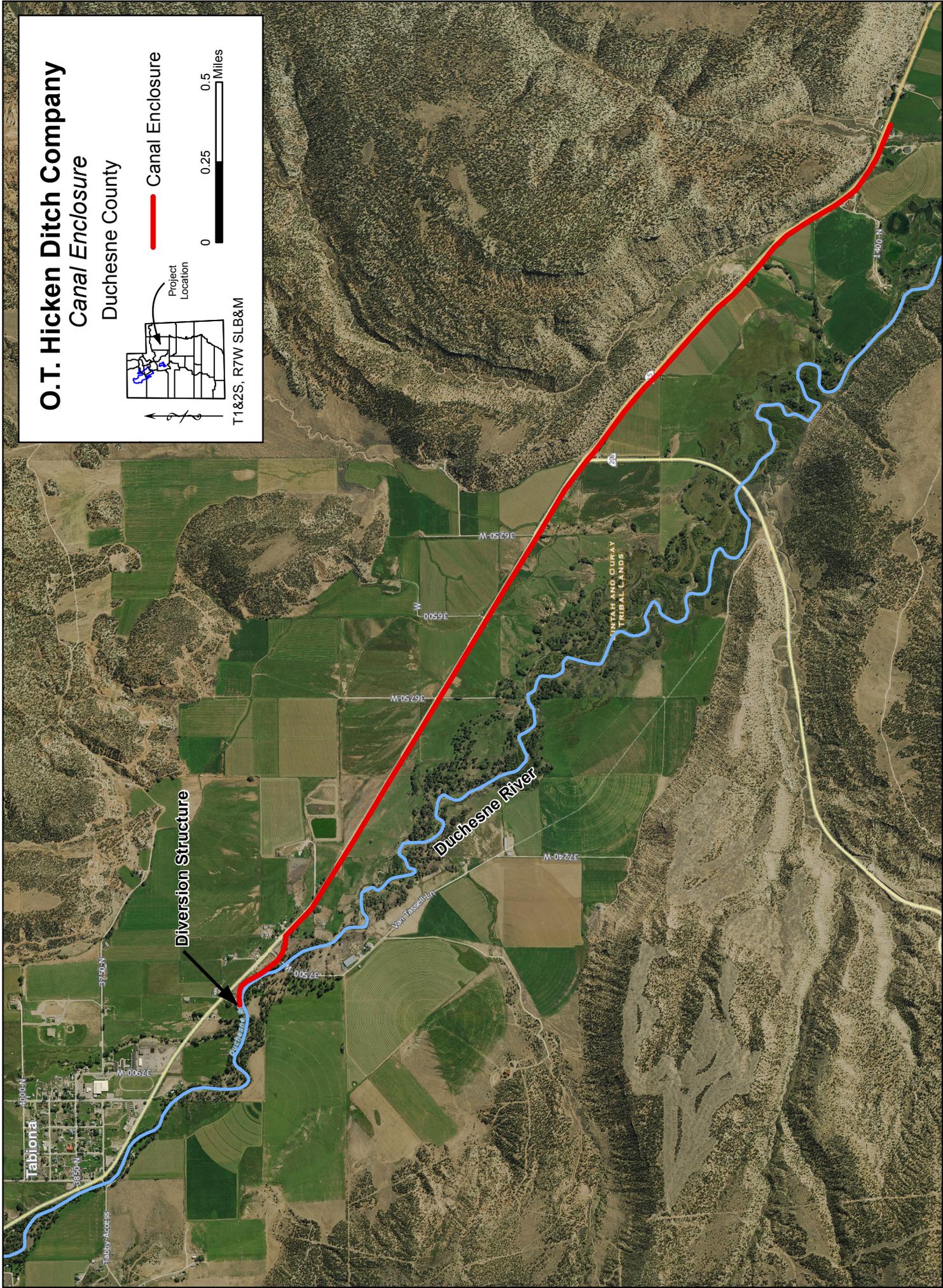
Duchesne County

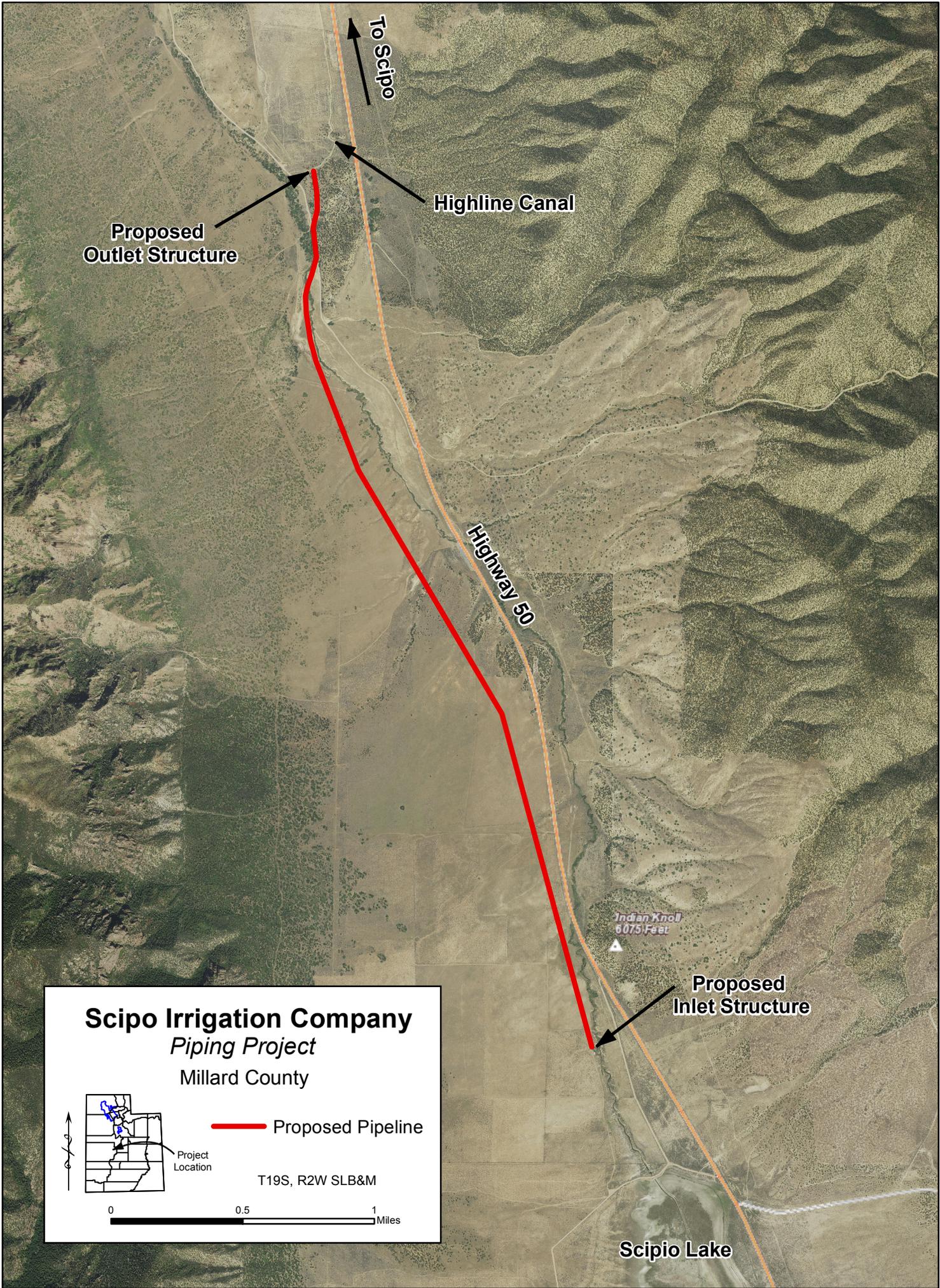


Canal Enclosure

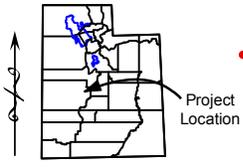


T1&2S, R7W SLB&M



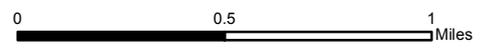


Scipo Irrigation Company
Piping Project
Millard County



 Proposed Pipeline

T19S, R2W SLB&M



BOARD OF WATER RESOURCES

Application Summary

Appl. No. **E-385**

Received: 3/7/16

SPONSOR: **WOODRUFF IRRIGATION COMPANY**

President: Wesley Tingey
P.O. Box 520
Woodruff, UT 84086
Phone: 801-556-5116

LOCATION: The proposed project is located approximately five and a half miles west of Woodruff in Rich County.

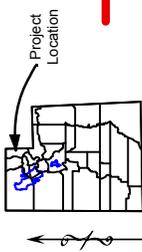
PROPOSED PROJECT: The sponsor is requesting financial assistance from the board to construct a pipeline from Woodruff Creek Reservoir to the confluence of Woodruff Creek and Birch Creek and construct a hydropower station.

WATER RIGHTS: Numerous water rights in Woodruff Creek.

COST ESTIMATE: \$6,890,000

Woodruff Irrigating Company Proposed Pipeline

Rich County



Proposed Pipeline



Woodruff Creek
Reservoir

