

FEASIBILITY OF THE TRACY LATERAL PIPELINE AT THE WEDERQUIST "Y"

Sponsored by the
BOULDER AND LEFT HAND IRRIGATION COMPANY
in conjunction with the
COLORADO WATER CONSERVATION BOARD

Prepared by:
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Boulder, Colorado 80303

June 2013

FEASIBILITY STUDY APPROVAL

Pursuant to Colorado Revised Statutes 37-60-121 & 122, and in accordance with policies adopted by the Board, the CWCB staff has determined this Feasibility Study meets all applicable requirements for approval.

Signed



7/3/2013
Date

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Dan Grant

Secretary-Treasurer

Duane Myers

Board Member

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Board Member
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Bob Juhl
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Boulder and Left Hand Irrigation Company

Mark Severin, P.E.
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Colorado Water Conservation Board

Feasibility of the Tracy Lateral Pipeline at the Wederquist “Y”

Project Purpose

The purpose of the proposed project is to improve the Tracy Lateral of the Boulder and Left Hand Ditch, at the Wederquist “Y” diversion structure, by re-aligning the ditch flow-line and placing that portion of the existing open channel ditch into a 30-36 in. diameter pipe (25 cfs design flow). This will involve building a new diversion structure upstream of the existing Wederquist “Y” and eliminating approximately 1,500 feet of severe steep switch back angles currently existing in the ditch alignment. The purpose of the project is to improve the hydraulic efficiency of the ditch, enhance access to the ditch diversions, reduce maintenance costs and eliminate ditch water losses from large trees and other phreatophytes.

Project Sponsor/Owner

The Boulder and Left Hand Irrigation Company (the Irrigation Company) is a Colorado Mutual Ditch Company and a Non-Profit Corporation. The Articles of Incorporation and Bylaws are included in Appendix D.

The Irrigation Company acquired the Boulder and Left Hand Ditch Company in March 1921. The Boulder and Left Hand Ditch Company had been operating the ditch system since approximately 1873.

The Irrigation Company shares a common diversion dam and head-gate with the Boulder and White Rock Ditch Company and North Boulder Farmers Ditch Company to divert water from Boulder Creek. The diversion dam, head-gate, and augmentation structure are located on the north bank of Boulder Creek near 12th and Broadway in Boulder, Colorado. The three companies share a common ditch for approximately two-thirds of a mile before the Boulder and White Rock Ditch separates from the Boulder and Left Hand and North Boulder Farmers Ditch at approximately 21st and Canyon in Boulder. The Boulder and Left Hand and North Boulder Farmers share a ditch for approximately 1.5 miles before they separate near the Foothills Parkway east of Boulder. The Boulder and Left Hand Ditch then generally flows in a northeasterly direction for approximately 14 miles before emptying into Dry Creek near U.S. 287 south of Longmont, Colorado. The Irrigation Company also owns and operates Twin Lakes (a.k.a. Davis Reservoir Nos. 1 and 2) in the Gunbarrel area north of Boulder and Hayden Reservoir in northeast Boulder. The Irrigation Company received a CWCB loan in 2000 for the outlet works and spillway improvements to Davis Reservoir No. 1.

Project Service Area

The service area of the Irrigation Company includes approximately 2,000 acres of farm land in east central Boulder County as estimated in 2009. Irrigated crops consist of corn, alfalfa, small grains, pinto beans, beets, and pasture grasses. The service area extends from the Boulder city limits northeasterly approximately 14 miles to Dry Creek near U.S. Highway 287, south of Longmont.

Water Rights

The Irrigation Ditch Company owns direct flow and storage water rights from Boulder Creek. They also have a 26.88 percent ownership in the North Boulder Farmers Ditch Company which also has direct flow rights from Boulder Creek. The overall water rights are summarized below. Table 1 shows the Company's direct flow rights, Table 2 shows the Company's storage rights, and Table 3 shows direct flow rights for North Boulder Farmers Ditch Company, including the Irrigation Company's pro-rata ownership share in those water rights. Complete water rights tabulations obtained from the Colorado Division of Water Resources are included in Appendix E for Boulder and Left Hand Ditch, Twin Lakes Reservoirs No. 1 & 2 (aka Davis Res. 1 & 2), Hayden Lake Reservoir, and North Boulder Farmers Ditch Company.

Table 1			
Boulder and Left Hand Irrigation Company Water Rights			
Direct Flow Rights			
Appropriation Date	Adjudication Date	Amount (CFS)	Administration Number
June 1, 1862	June 2, 1882	1.7	4535.00000
December 1, 1873	June 2, 1882	82.8	8736.00000
Total		84.5	

Table 2				
Boulder and Left Hand Irrigation Company Water Rights				
Storage Rights				
Water Right	Appropriation Date	Adjudication Date	Amount (acre-feet)	Administration Number
Twin Lakes Nos. 1 & 2	April 18, 1910	June 21, 1926	137.0	22022.00000
Twin Lakes Nos. 1 & 2 Enl.	October 30, 1947	September 28, 1953	81.0	35731.00000
Hayden Reservoir	July 21, 1905	September 28, 1953	190.1	27930.20290
Hayden Reservoir Enl.	June 21, 1930	September 28, 1953	311.7	29391.00000
Hayden Reservoir Refill	September 1, 1938	September 28, 1953	501.8	32385.00000
Total			1,221.6	

Table 3 North Boulder Farmers Ditch Company Water Rights Direct Flow Rights				
Appropriation Date	Adjudication Date	Amount (cfs)	Boulder and Left Hand Pro-Rata Amount (cfs)	Administration Number
June 1, 1862	June 2, 1882	10.375	2.886	4535.00000
June 1, 1863	June 2, 1882	37.065	9.963	4900.00000
Total		47.8	12.849	

Annual water diversions for all of the Irrigation Company's water rights are included in Appendix E.

The average annual direct flow diversions between 1950 - 2011 through the Boulder and Left Hand Ditch have been 1,203 acre-feet. The Division of Water Resources has limited data for diversions to storage for Twin Lakes Reservoirs 1 & 2 and Hayden Lake Reservoir between the years 1976 – 2011 (see Appendix E). There are only seven years of record of storage diversions for each reservoir during that period of time. A seven-year average for Twin Lakes Reservoirs 1 & 2 is 152 acre-feet, and Hayden Reservoir is 214 acre feet. If these storage averages are added to the Company's direct flow diversions, the average annual diversion (direct flow plus storage) is 1,569 acre-feet.

The average annual direct flow diversions through the North Boulder Farmers Ditch between 1950 and 2011 have been 4,837 acre-feet, and therefore the Irrigation Company's annual share of those diversions (26.88 percent) are 1,300 acre-feet.

Thus the average annual total water diverted for the Company shareholders is approximately 2,869 acre-feet, or approximately 21 acre-feet per share. (2,869 acre-feet/136.05 shares). In addition, the Irrigation Company also delivers approximately 175 acre-feet of Colorado Big Thompson (CBT) water owned by its shareholders, who pay a carrying charge.

Analysis of Alternatives

Need for the Project

The Boulder and Left Hand Ditch is typical of main supply ditches used for irrigation in Colorado. The ditch is checked at particular locations to raise the level of the water in the ditch to allow discharge through head-gates into lateral ditches or directly onto fields. Other control structures consist of dams and diversion structures that control the ditch and direct the flow to storage.

The ditch meanders several times on the east side of 79th Street, near Niwot, before it bifurcates at a check/drop structure (the Wederquist "Y" diversion) with the main ditch continuing east and the Tracy Lateral continuing to meander back to the north and west

towards the 79th Street crossing. The sides and flow-line of the Tracy Lateral are heavily lined by very large mature cottonwood trees and other deciduous trees and shrubs. The trees and shrubs make access to the ditch very difficult and create a debris problem in the ditch resulting in flow constraints and blockages in the ditch and at the 79th Street crossing. The trees and other phreatophytes along the ditch are also a source of severe water losses, especially during the last several years of drought. (see Photographs in Appendix A)

The trees along the ditch create an appealing backdrop for the adjacent neighborhood of homes to the north and the homeowners do not want the trees removed for environmental and aesthetic reasons.

The Wederquist “Y” diversion structure is located several hundred yards from the ditch access drive at 79th Street and is in poor condition, making the diversions to the Tracy Lateral difficult. The structure is operated using stop-logs for checks. By stopping diversions at this structure, and allowing the ditch to flow freely to the east, several long cleanout and maintenance/diversion trips to the structure by the ditch superintendent would be eliminated.

Alternatives Evaluated

Four alternatives have been considered for the ditch improvements described above. They include: 1.) Do nothing; 2.) Replace the “Y” diversion with a new diversion structure upstream and replace the Tracy lateral ditch with a concrete pipe commencing at the new diversion and flowing in a more direct alignment to the 79th Street crossing; 3.) Same as alternative #2, but with HDPE plastic pipe rather than concrete; or 4.) Replace the “Y” diversion with a new structure and re-construct the Tracy Lateral and remove all the vegetation along the sides of the ditch.

Alternative #1

One course of action considered was the Do Nothing alternative. This option is not viable for the Tracy Lateral to continue to efficiently operate and is only valid if the irrigated land is to be taken out of production and the water stock liquidated along the Tracy Lateral. The reach of the system that has been overtaken by vegetation, and the level of deterioration of the “Y” structure, has made it very difficult to manage the flow of water. Replacement or repair of the “Y” structure and management of the ditch phreatophytes must be pursued if the Irrigation Company is to continue making water deliveries to the Tracy Lateral.

Alternative #2

The second alternative explored was to replace the “Y” diversion structure with a new upstream structure and replace the meandering Tracy Lateral with a concrete pipe commencing at the new diversion structure and flowing in a more direct alignment to the 79th Street crossing. This alternative allows for the construction of a new more efficient

diversion to the ditch, at a more convenient location for flow management and structure maintenance, and eliminates the maintenance issues and water losses associated with the phreatophytes along the existing Tracy Lateral. With the continued diversion of small, spot flows, during the summer from the existing “Y” diversion, the large cottonwoods and deciduous trees can be kept alive for neighborhood aesthetics and the environment.

This alternative meets all the goals of the project. The estimated project cost of this alternative is \$247,750 as shown in Table 4. The expected project life of this alternative far exceeds the duration of the CWCB loan 30 year repayment period.

Table 4
Opinion of Cost
Boulder and Left Hand Irrigation Company
Alternative #2 – New Diversion and Concrete Pipe

<u>Construction Item</u>	<u>Quantity Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1. Mobilization/Demobilization	L.S.	\$ 4,000	\$ 4,000
2. Reinforced Concrete Turnout Structure (includes grating, stop logs, and guides)	L.S.	\$ 15,000	\$ 15,000
3. 30 in. Manual Slide gate	1 EA	\$ 2,500	\$ 2,500
4. Manhole	4 EA	\$ 5,000	\$ 20,000
5. 30 in. RCP	430 L.F.	\$ 150	\$ 64,500
6. 36 in. RCP	250 L.F.	\$ 200	\$ 50,000
7. Manhole and Pipeline Bedding	L.S.	\$ 1,500	\$ 1,500
8. D/S Reinforced Concrete Structure	L.S.	\$ 5,000	\$ 5,000
9. Riprap Type “M” 2’ Deep	18 C.Y.	\$ 100	\$ 1,800
10. Riprap Bedding 1’ Deep	9 C.Y.	\$ 50	\$ 450
Subtotal			\$ 164,750
Misc. and Unlisted Items			\$ 5,000
Subtotal Construction			\$ 169,750
Contingency @ 25%			\$ 43,000
Direct Construction Cost			\$ 212,750
Right-of-Way			\$ 5,000
Project Planning			\$ 5,000
Design Engineering			\$ 25,000
Total Cost			<u>\$ 247,750</u>

Alternative #3

The third alternative explored was to replace the “Y” diversion structure with a new upstream structure and replace the meandering Tracy Lateral with a high density

polyethylene (HDPE) plastic pipe commencing at the new diversion structure and flowing in a more direct alignment to the 79th Street crossing. Similar to alternative #2, this alternative allows for the construction of a new more efficient diversion to the ditch, at a more convenient location for flow management and structure maintenance, and eliminates the maintenance issues and water losses associated with the phreatophytes along the existing Tracy Lateral. With the continued diversion of small, spot flows, during the summer from the existing “Y” diversion, the large cottonwoods and deciduous trees can be kept alive for neighborhood aesthetics and the environment.

This alternative meets all the goals of the project. The estimated project cost of this alternative is \$175,000 as shown in Table 5. The expected project life of this alternative far exceeds the duration of the CWCB loan 30 year repayment period.

Table 5
Opinion of Cost
Boulder and Left Hand Irrigation Company
Alternative #3 – New Diversion and HDPE Pipe

Construction Item	Quantity Unit	Unit Cost	Total Cost
1. Mobilization/Demobilization	L.S.	\$ 4,000	\$ 4,000
2. Reinforced Concrete Turnout Structure (includes grating, stop logs, and guides)	L.S.	\$ 15,000	\$ 15,000
3. 30 in. Manual Slide gate	1 EA	\$ 2,500	\$ 2,500
4. Manhole	4 EA	\$ 5,000	\$ 20,000
5. 30 in. HDPE Pipe	430 L.F.	\$ 80	\$ 34,400
6. 36 in. HDPE Pipe	250 L.F.	\$ 90	\$ 22,500
7. Manhole and Pipeline Bedding	L.S.	\$ 1,500	\$ 1,500
8. D/S Reinforced Concrete Structure	L.S.	\$ 5,000	\$ 5,000
9. Riprap Type “M” 2’ Deep	18 C.Y.	\$ 100	\$ 1,800
10. Riprap Bedding 1’ Deep	9 C.Y.	\$ 50	\$ 450
Subtotal			\$ 107,150
Misc. and Unlisted Items			\$ 5,000
Subtotal Construction			\$ 112,150
Contingency @ 25%			\$ 27,850
Direct Construction Cost			\$ 140,000
Right-of-Way			\$ 5,000
Project Planning			\$ 5,000
Design Engineering			\$ 25,000
Total Cost			<u>\$ 175,000</u>

Alternative #4

The fourth alternative considered was to replace the “Y” diversion with a new structure and re-construct the Tracy Lateral, including two deteriorated drop structures. This alternative would also remove all the large growth vegetation along the sides of the ditch; a distance of approximately 1,500 feet. For that reason, this alternative was only given a cursory review and consideration. The Irrigation Company wants to maintain a good working relationship with all adjacent homeowners who, in this case, are adamant about maintaining the tree lined backdrop to their neighborhood. The removal of all of the vegetation along the Tracy Lateral is estimated to be over \$100,000 alone. That, together with the reconstruction of the ditch, drop structures, and the “Y” diversion would not only make this alternative the most expensive, but would also not meet the needs of the Irrigation Company. This alternative was eliminated from further consideration.

Selected Alternative

The Irrigation Company has chosen Alternative #3 as the desired alternative. The Irrigation Company does not feel that the other alternatives meet the goals of the project or add a level of efficiency, value, or aesthetics, as compared to Alternative #3. Alternative # 3 meets the project goals by providing improved hydraulic efficiency in a closed conduit rather than in an open ditch, enhances access to the ditch diversions by relocating the diversions closer to the Irrigation Company’s right-of-way gate, reduces average annual maintenance costs by approximately \$5,000, and completely eliminates ditch losses due to phreatophytes. This alternative provides the same project benefits as Alternative #2, however at a lower cost. See Appendix C for a preliminary project layout and design.

Project Cost

The selected alternative is estimated to cost a total of \$175,000 including planning, design engineering and construction. The project cost estimate, including contingencies was provided by the Irrigation Company’s design engineer and is shown in Table 5 above.

Implementation Schedule

The following schedule is proposed for implementation of the project:

<u>Task</u>	<u>Target Date</u>
1. Feasibility Study Submittal	June 1, 2013
2. CWCB Loan Approval	July 17, 2013
3. Final Design	September 1, 2013
4. CWCB Contract Approval	October 15, 2013
5. Construction Commencement	October 16, 2013
6. Construction Substantial Completion	December 16, 2013
7. First CWCB Loan Payment Due	December 16, 2014

Social, Economic and Physical Impacts

The project will have no significant social impacts other than it will please the adjacent homeowners by maintaining the neighborhood aesthetics and presence of the trees.

The project will have a positive economic impact on the Irrigation Company by providing a more efficient and economic operation of their ditch. The estimated average annual maintenance cost savings to the Irrigation Company provided by the project is \$5,000.

The project will have no significant physical impacts once construction is complete. The existing row of trees along the existing ditch will remain and will be spot watered during the growing season by the Irrigation Company in order to maintain the environmental assets and aesthetics in the Niwot neighborhood area.

Permitting

The connection of the new Wederquist Y pipeline to the existing culvert crossing 79th Street will be within the Boulder County 79th Street right-of-way. A Boulder County Utility Permit and a review of the final design plans will be required by Boulder County prior to commencement of construction. The cost of the Utility Permit is a nominal fee of \$150 typically acquired by the construction contractor.

Institutional Considerations

The Irrigation Company obtained a vote of approval from the shareholders, at their February 16, 2013 annual meeting, to contract for the CWCB loan and increase the annual assessments to service the loan payments.

A permanent right-of-way through the Wederquist property will be required in order to construct and maintain the proposed pipeline project. The Irrigation Company is currently negotiating with the Wederquists for the necessary rights-of-way. The right-of-way will be acquired by the Irrigation Company prior to contracting with the CWCB.

Financial Plan

New Loan - The Irrigation Company plans to construct the Tracy Lateral Pipeline at the Wederquist "Y" project at a total cost of \$175,000. The Irrigation Company is applying to the CWCB for a 90% loan in the amount of \$159,075 (\$157,500 plus \$1,575 service fee). The term of the loan will be 30 years and the blended interest rate will be 2.35%. (The Irrigation Company has 38 shareholders with a total of 136.0533 shares, of which 70.92 shares are agricultural at a rate of 1.75% and 65.133 shares are High Income Municipal at a rate of 3.00%.) The Irrigation Company will raise its 10% local share

(\$17,500) for the project with a special assessment of \$128 per share in 2013. The Irrigation Company will levy a special assessment for the new loan payment of approximately \$61 per share beginning in 2014 (\$7,449 plus \$745 reserve for first 10 years.)

Existing CWCB Loan - The Irrigation Company has an existing loan with the CWCB (Loan Contract No. C15009), approved on May 8, 2000, for the Boulder & Left Hand Irrigation Company Twin Lakes Outlet Repair. The loan amount was \$100,000 at 3.75% interest for a term of 20 years. The annual payment amount is \$7,196.21. The Irrigation Company used Hayden Lake as collateral for this loan. The Irrigation Company made its first payment on September 1, 2002, and its last payment will be due on September 1, 2021. The Irrigation Company is in good standing on this loan. The loan is paid for by a Special Debt Service Stock Assessment of approximately \$53 per share.

Existing Financial Condition - The Company is in good financial condition. The Irrigation Company has no obligations except current operating expenses and the existing CWCB loan. Financial Statements for 2010-2012 are included in Appendix F, as well as the 2013 adopted budget and 2013 expenses to-date. A summary of past and future annual stock assessments is shown in Table 6 below:

Table 6
Boulder and Left Hand Irrigation Company
Past and Future Annual Stock Assessments

<u>Year</u>	<u>Oper. Assess't</u>	<u>Capital Assess't</u>	<u>Debt Service Exist Loan</u>	<u>SpecialAssess't New Loan 10%.</u>	<u>FutureAssess't New Loan.</u>
2010	\$342	\$ 98	\$ 53	-	-
2011	\$342	\$100	\$ 53	-	-
2012	\$342	\$ 96	\$ 55	-	-
2013	\$350	\$ 72	\$ 53	\$128	-
2014+					\$61

The average of total assessments for 2010 -2012 was \$493 per share. Based on the Irrigation Company's historical average diversions of 2,869 acre-feet (21 acre-feet per share), the cost to the shareholders equates to about \$23 per acre-foot per year.

The Irrigation Company is in good position to pay off the existing loan and to service the new loan. An overview of the detailed Financial Statements in Appendix F shows the following income and expense summaries, as well as a calculation of applicable CWCB financial ratios. These figures are based on a 3-year average for years 2010, 2011 and 2012.

	<u>2010-12 (Aver.)</u>	
Operating/Capital/Misc. Income	\$79,180	
Debt Service Income	<u>\$7,299</u>	
Total Income	\$86,479	
Operating Expenses		
Salaries	\$10,800	
Repairs & Maintenance	\$26,137	
Other Admin/Operating	<u>\$33,646</u>	
Total Operating Expenses	\$70,583	
Existing CWCB Loan	<u>\$7,196</u>	
Total Expenses	\$77,779	
Ending Cash	\$33,506	
<u>Financial Ratios:</u>		
Operating Ratio	112%	(\$79,180/\$70,583)
Debt Service Coverage Ratio	220%	<u>(\$86,479 – \$70,583)</u>
		\$7,196
Cash Reserves to Current Expense	43%	(\$33,670/\$77,779)
Annual Operating Cost/ac.ft.	\$27	(\$77,779/2,869 ac.ft.)

A cash flow analysis (Schedule of Revenue and Expenditures) for a loan of \$159,075 at 2.35% for the 30 year period of the loan is included in Appendix F. This includes paying off the existing CWCB loan in 2021. It also assumes a continuation of the ongoing annual capital assessment effort of approximately \$100 per share. Annual miscellaneous income averaged \$19,270 over the period 2010-2012 but is projected to only be \$5,330 in 2013. For the purpose of the cash flow analysis, a conservative figure of \$10,000 was assumed in the first year of the loan repayment.

Collateral

In accordance with CWCB Policy #5, the Company, as a private incorporated entity, will offer the following collateral to secure the CWCB loan: 1.) a pledge of assessment revenues backed by an assessment covenant; and 2.) the project itself.

Opinion of Feasibility

The selected alternative is technically and financially feasible. There are no significant road blocks which would keep the Boulder and Left Hand Irrigation Company from successfully completing this project.

Appendix A

Photographs



**Location of New Diversion Structure
Looking upstream along the Boulder and Left Hand Ditch**



Looking NW along the new pipeline alignment



The Wederquist "Y"



The Wederquist "Y" looking towards the existing Tracy Lateral



Trees in the Tracy Lateral



Trees in the Tracy Lateral



Trees in the Tracy Lateral



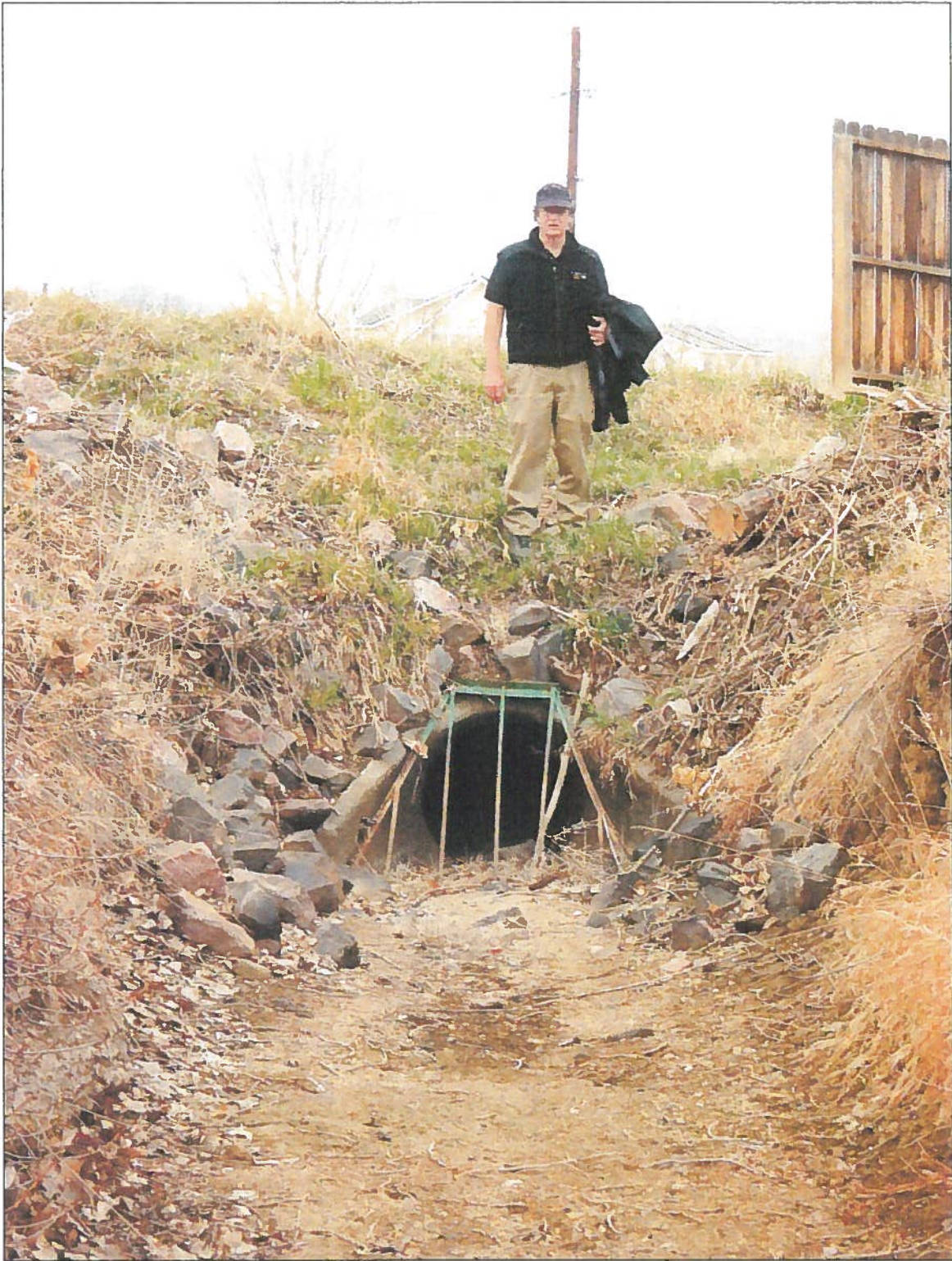
One of Three Existing Drop Structures in the Tracy Lateral



Trees in the Tracy Lateral



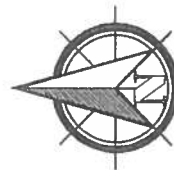
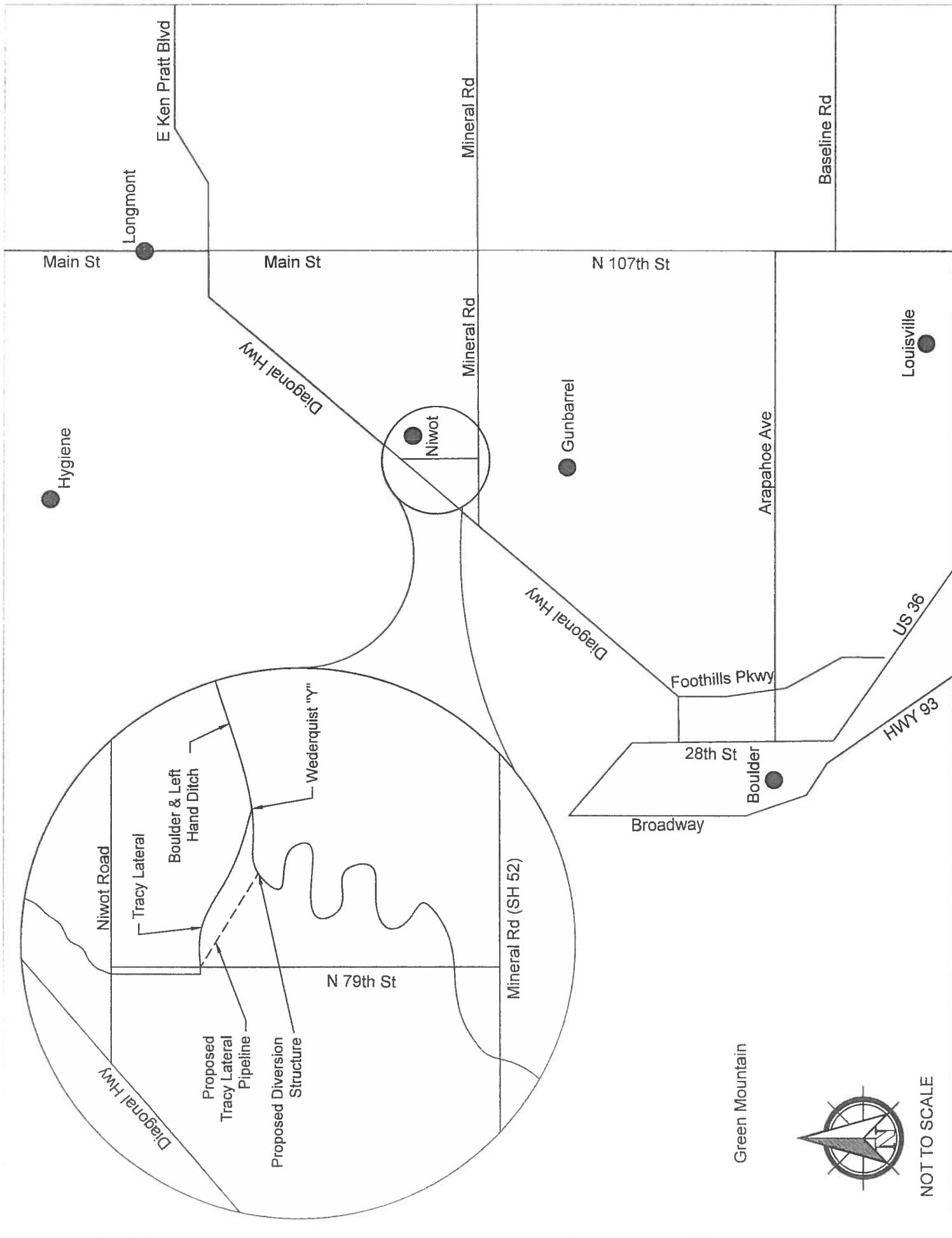
Trees in the Tracy Lateral



End of Proposed Tracy Lateral Pipeline at the 79th Street Crossing

Appendix B

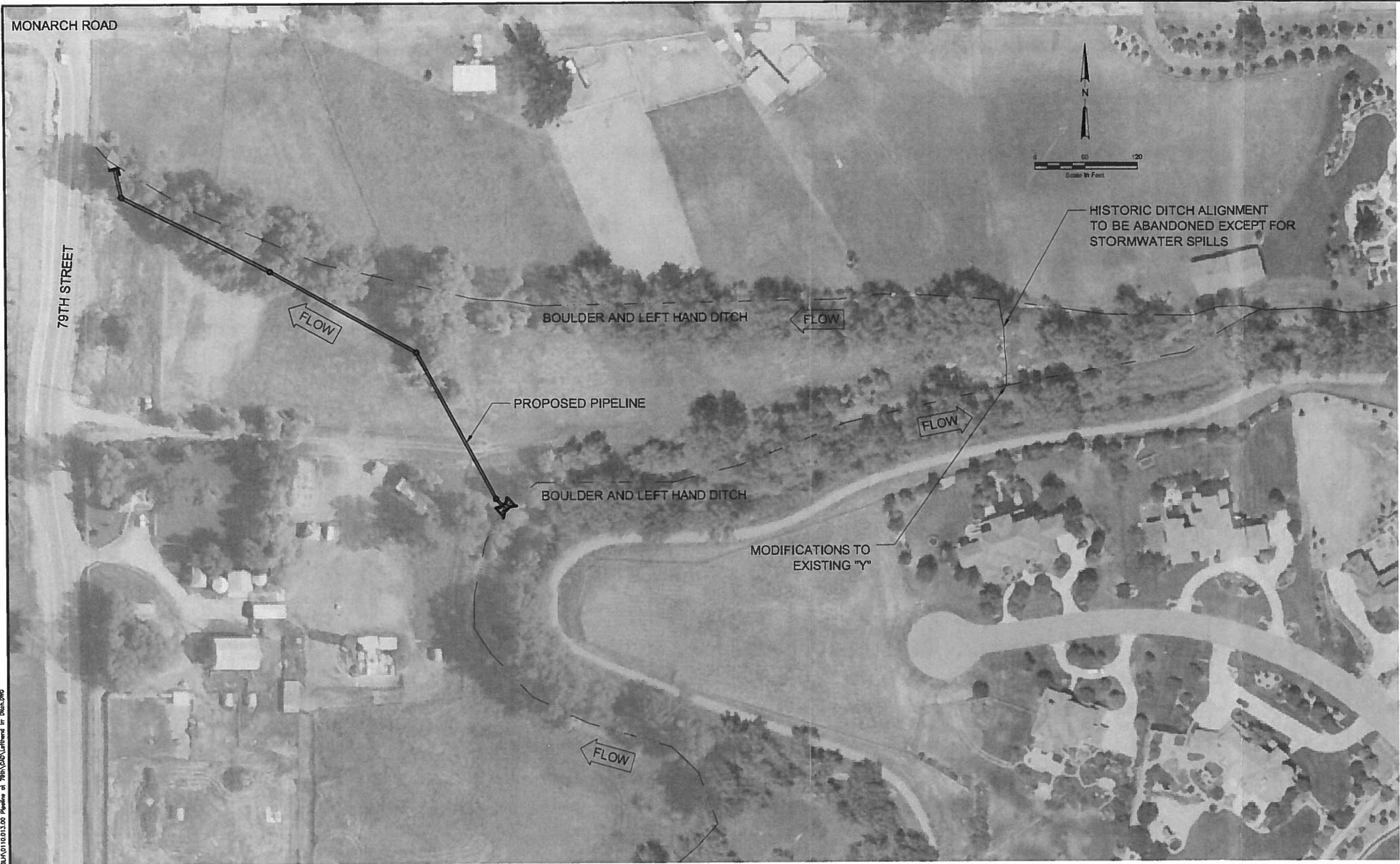
Site Location Map



NOT TO SCALE

Appendix C

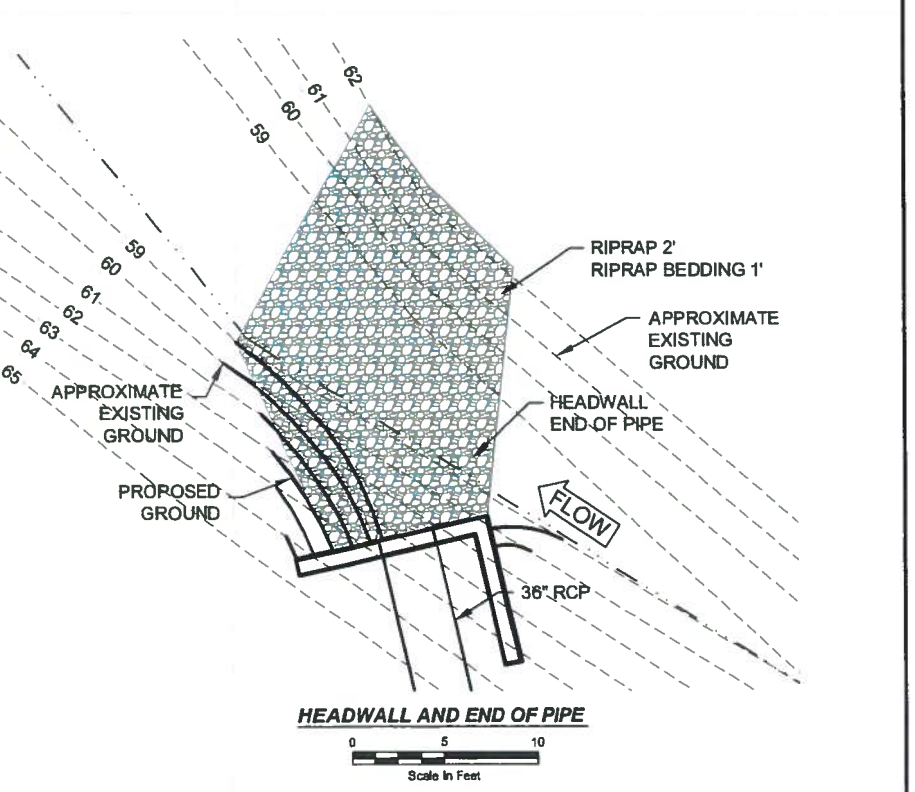
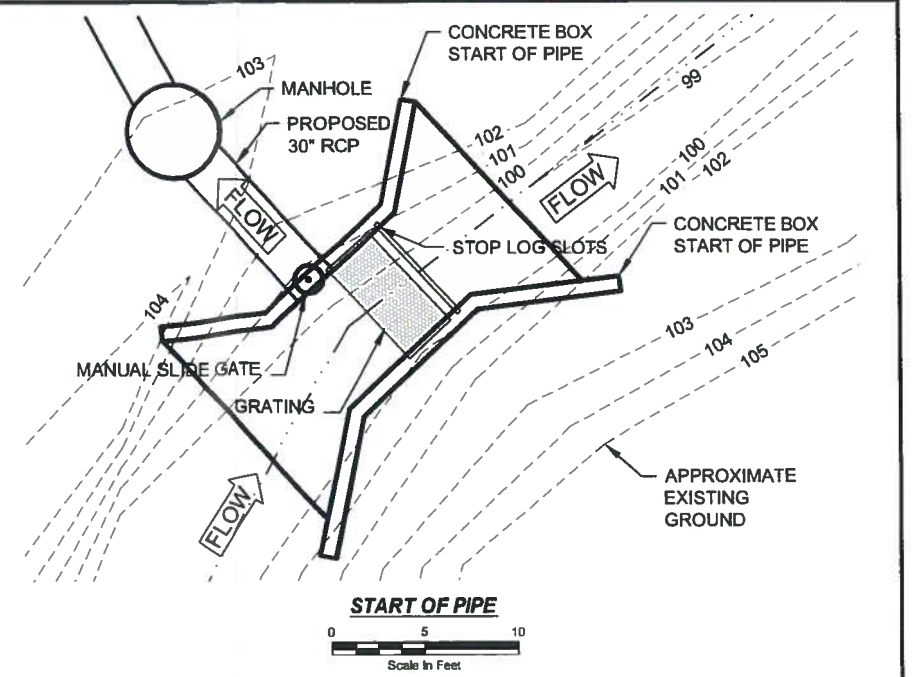
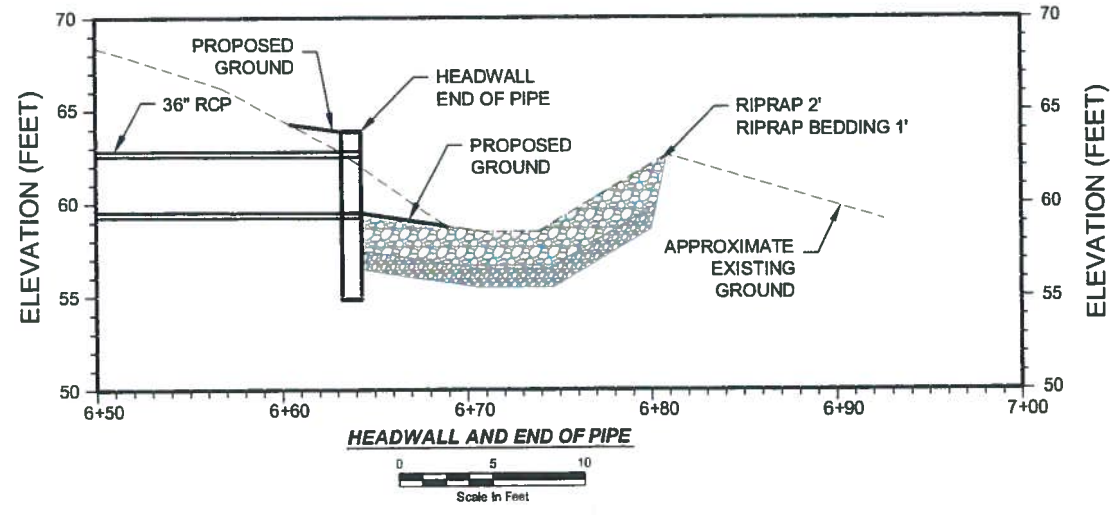
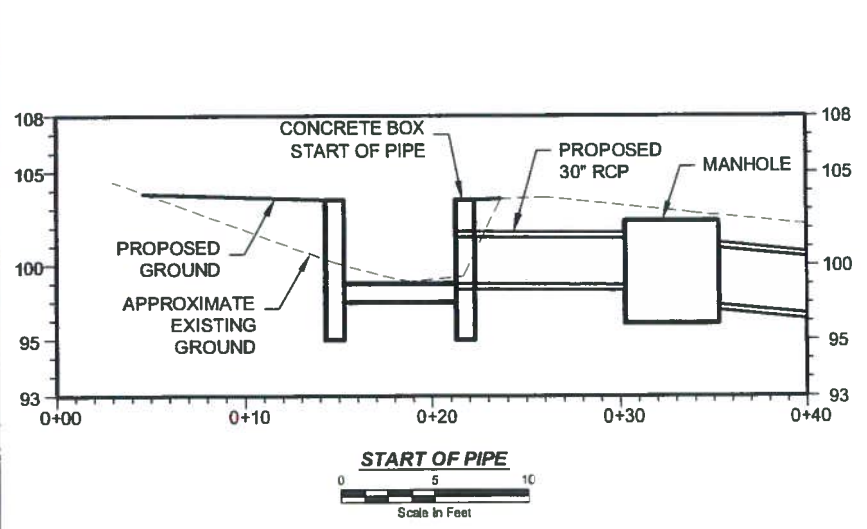
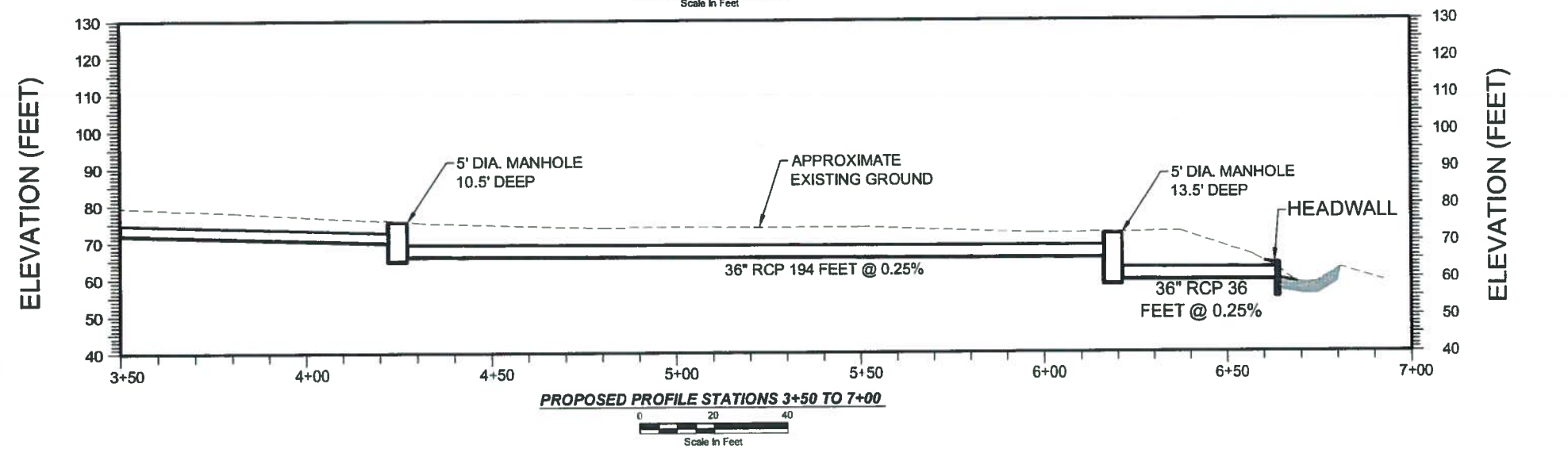
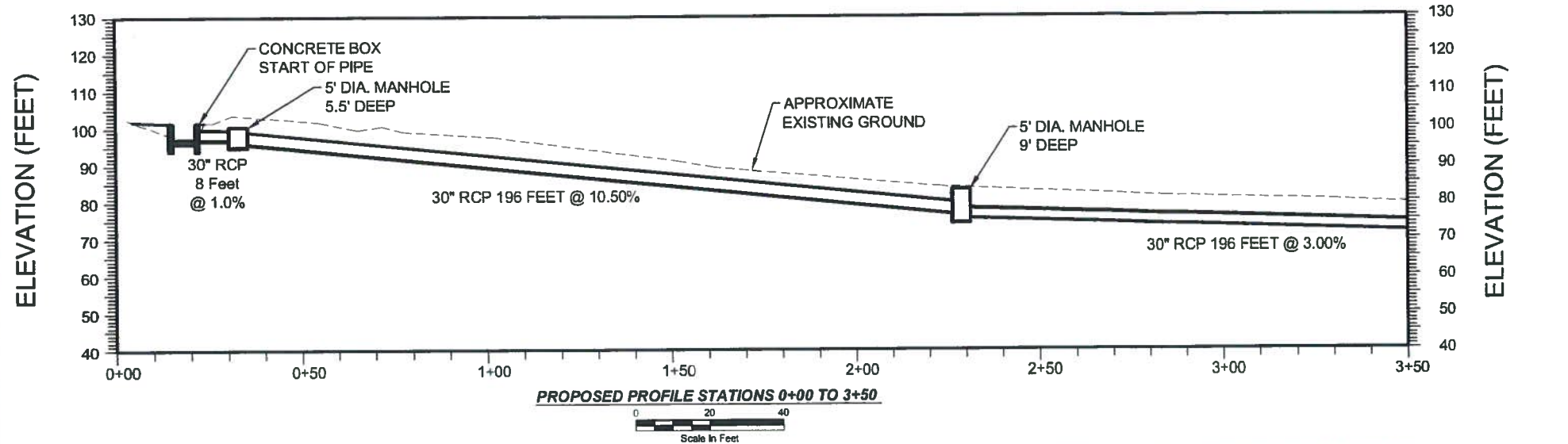
Preliminary Plan Drawings



DRAFT

SEO FILE NO				BOULDER & LEFT HAND IRRIGATION DITCH			
NO.	REVISIONS DESCRIPTION	DATE	BY	SITE PLAN			
				DEERE & AULT CONSULTANTS, INC.			
				800 S. AIRPORT RD., BLDG. A, SUITE 205 LONGMONT, CO 80503 TEL. 303.651.1468 FAX 303.651.1469			
				DESIGNED BY: <u>NLM</u>	APPROVED BY: <u>WAS</u>	JOB NO.	SHEET:
				DRAWN BY: <u>JR/SR</u>	DATE: <u>11-12-08</u>	0110.013.00	1 of 2
				CHECKED BY: <u>MB</u>	SCALE: <u>AS NOTED</u>		

Wednesday, November 12, 2008 2:27:17 PM DRAWING: P:\0110 BLM\0110.013.00 Pipeline at 705\CA0\Unlabeled in Dwg.dwg



DRAFT

SE0 FILE NO				BOULDER & LEFT HAND IRRIGATION DITCH			
REVISIONS				PIPELINE PROFILE AND DETAILS			
NO.	DESCRIPTION	DATE	BY				
				DEERE & AULT CONSULTING, INC.			
				DESIGNED BY: NLM APPROVED BY: WAS			
				DRAWN BY: JR/SR DATE: 11-12-08			
				CHECKED BY: MB SCALE: AS NOTED			
				JOB NO.	0110.013.00	SHEET:	2 of 2

Appendix D

Articles of Incorporation, Bylaws and Certificate of Good Standing

ARTICLES OF INCORPORATION

OF

THE BOULDER & LEFT HAND IRRIGATION COMPANY

KNOW ALL MEN BY THESE PRESENTS, That, we, EARL T. LUDLOW, JOHN H. NICHOLAS and W. M. HENRY, residents of the State of Colorado, have associated ourselves together as a corporation under the name and style of THE BOULDER & LEFT HAND IRRIGATION COMPANY for the purpose of becoming a body corporate and politic, under and by virtue of the laws of the State of Colorado, and in accordance with the laws of said state, we do hereby make, execute and acknowledge, in duplicate, this certificate in writing of our intention so to become a body corporate, under and by virtue of said laws.

FIRST:

The corporate name of our said company shall be THE BOULDER & LEFT HAND IRRIGATION COMPANY.

SECOND:

The objects for which the company is created are as follows:

(a). To acquire and become the owner by purchase, or other lawful means, of all of the decrees, rights, appropriations, franchises, ditches, laterals and ditch and water rights, and all other corporate property, both real and personal of every nature and description of The Boulder & Left Hand Ditch Company, a corporation organized and heretofore existing and doing business under and by virtue of the laws of the State of Colorado, and to assume, carry out and perform

all contracts and other obligations entered into in the name of the said last mentioned company, and to have, exercise and enjoy all its rights, privileges and immunities.

(b). To acquire and become the owner by purchase, condemnation or other lawful means of lands, reservoirs and reservoir sites in Boulder County, Colorado, together with sufficient contiguous territory to construct, operate and maintain said property and all necessary headgates, weirs, checks, dams, embankments, inlet and outlet ditches, and a margin along said ditch for right of way to construct, enlarge and maintain the same.

(c). To construct, operate and maintain the whole of said property and to superintend and control the diversion and storage of said water.

(d). To acquire other ditches, reservoirs and reservoir sites for the purpose of supplying water for irrigation purposes to the stockholders of this company.

(e). To acquire other water or other appropriations of water heretofore made by others, if deemed expedient by the board of directors hereinafter constituted, for the purpose of increasing the water supply of its stockholders, and for this purpose it may acquire, hold, own and vote the stock and become a stockholder in other irrigation, reservoir and ditch corporations.

(f). To borrow money on its bond, note or otherwise, for corporate purposes whenever deemed necessary by its board of directors, and to provide for the payment of the same by assessment of its full capital stock or by deed of trust or mortgage on its corporate property or franchises.

(g). To take, own and convey real estate the same as

a natural person, and to purchase, acquire, hold or sell, convey, mortgage and dispose of the same as the board of directors in their judgment may think either necessary or convenient for the purposes for which the company was organized, and to promote its business.

(h). To take stock in telephone companies and to construct telephone lines of its own or assist others therein, for the purpose of facilitating its own business and maintaining and operating its own property.

(i). To take over, operate, carry on and continue the affairs and business of said The Boulder & Left Hand Ditch Company giving and granting to the stockholders of said last named company the same rights and privileges in this corporation, pro rata, as they would be entitled to in said The Boulder & Left Hand Ditch Company had the corporate existence thereof not terminated.

(j). To do any and all business necessary, convenient or incident for the purpose of carrying on the business for which this corporation is organized and to operate its business and affairs as a mutual irrigation company.

THIRD:

The stream and source from which water is taken and diverted is Boulder Creek in said Boulder County, Colorado. Water is diverted at a point or place on the northeast bank of Boulder Creek at or near where said creek crosses the east side of Twelfth Street, in the City of Boulder, Boulder County, Colorado, from which said point water is carried through a ditch or channel sometimes called the "Union Ditch", and by means of which water is diverted to this company and other

irrigation corporations taking water from said Boulder Creek, and which ditch extends in a general easterly direction through the said City of Boulder to a point or place in the northeast quarter (N.E. $\frac{1}{4}$) of section twenty-nine (29), in township one (1) north, of range seventy (70) west of the 6th P.M., which point is under or near the bridge of the railroad track on the Louisville branch of the railroad of The Colorado & Southern Railroad Company, and which point is commonly taken and considered as the headgate of said Boulder and Left Hand Ditch. From said headgate water is carried through said Boulder and Left Hand Ditch, the line of which ditch as near as may be is described as follows: Beginning at said headgate and running thence in a general northeasterly direction over and across sections twenty-nine (29), twenty-eight (28), twenty-one (21), twenty-two (22), fifteen (15), fourteen (14), ten (10), eleven (11), two (2) and one (1), in said township one (1) north, of range seventy (70) west of the 6th P.M., across the southeast quarter (S.E. $\frac{1}{4}$) of section thirty-six (36), in township two (2) north, of range seventy (70) west of the 6th P.M. and across the west half (W. $\frac{1}{2}$) of section thirty-one (31), in township two (2) north, of range sixty-nine (69) west of the 6th P.M., to a point south of and near the north line of the southwest quarter (S.W. $\frac{1}{4}$) of said section thirty-one (31), at which point said ditch divides into a north and south branch, and the line of the north branch, as near as may be, is as follows: Running from said point in a general northeasterly direction across sections thirty-one (31), thirty (30), twenty-nine (29), twenty (20) and twenty-one (21), in township two (2) north, of range sixty-nine (69) west of the 6th P.M. to Dry Creek, and the line, as near as may be, of the south branch

of said ditch is as follows: Running in a general easterly and northeasterly direction from said point in said section thirty-one (31), over and across said sections thirty-one (31), thirty (30), twenty-nine (29), thirty-two (32), twenty-eight (28) and twenty-one (21), in township two (2) north, of range sixty-nine (69) west of the 6th P.M. to said Dry Creek.

FOURTH:

The use to which water is intended to be applied is for irrigation and domestic purposes.

FIFTH:

This corporation shall have a first lien on all the shares of stock of the registered holder thereof for any and all indebtedness of such stockholder to the corporation, whether due and payable or not due and payable at the time when the corporation shall seek to enforce such lien, and whether such indebtedness to the corporation occurred before or after such stockholder became a stockholder of the company, and such lien shall continue until such indebtedness shall have been paid in full, and such stock shall not be transferred on the books of the corporation until such indebtedness shall be paid.

SIXTH:

The amount of the capital stock of said company is six thousand eight hundred (\$6,800.00) dollars, to be divided into one hundred thirty-six (136) shares, of a par value of fifty (\$50.00) dollars each.

SEVENTH:

The number of directors of said company shall be five (5), and the names of those who shall manage the affairs of said company for the first year of its existence are EARL T.

LUDLOW, JOHN H. NICHOLAS, W. M. HENRY, A. B. SANDEY and G. F. RICHART.

EIGHTH:

The term of the existence of said corporation shall be twenty (20) years from the date of these articles.

NINTH:

The principal office of the company shall be kept in Nivot, in the County of Boulder, State of Colorado, and the principal business of the company shall be carried on in the said County of Boulder.

TENTH:

The board of directors shall have power to make such prudential by-laws as they may deem proper for the management of the affairs of the company, not inconsistent with the laws of this state, for the purpose of carrying on all kinds of business within the purposes of such company.

ELEVENTH:

At all meetings of the stockholders of the said company cumulative voting shall be allowed.

IN TESTIMONY WHEREOF, we have hereunto set our hands and seals and caused this instrument to be executed, in duplicate, this first day of March, A.D. 1921.

Earl J. Ludlow (SEAL)

J. H. Nicholas (SEAL)

Wm Henry (SEAL)

State of Colorado,)
County of Boulder,) ss.

I, Gay Dean, a

Notary Public in and for the said Boulder County, in the state aforesaid, do hereby certify that EARL T. LUDLOW, JOHN H. NICHOLAS and N. M. HENRY, who are personall known to me to be the persons whose names are subscribed to the foregoing articles of incorporation, appeared before me this day in person, and acknowledged that they signed, sealed and delivered the said instrument of writing as their free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and notarial seal this first day of March, A.D. 1921.

My commission expires November 21, 1921.

Gay Dean
Notary Public.

As revised 1980

BYLAWS

OF

THE BOULDER & LEFT HAND IRRIGATION COMPANY.

ARTICLE I.

Officers.

1.1 The officers of this company shall be a president, vice-president, secretary, treasurer and superintendent. The president and vice-president shall be elected by the board of directors at the first meeting after the annual meeting, and shall hold office for one year, or until their successors are chosen. The other officers may be appointed by the board of directors at any regular meeting, and shall hold office at the will of the board. (Adopted 1921)

1.2 President. The president shall preside at all meetings of the company and at all directors' meetings. He shall be the chief executive officer and shall have a general oversight over the affairs of the company. He shall approve all orders upon the treasurer, and sign all certificates of stock. In the absence or inability to act of the president, the vice-president shall perform his duties. (1921)

1.3 Secretary. The secretary shall keep a correct record of all meetings of the company and of the directors. He shall collect all moneys due the company and shall pay the same over to the treasurer. He shall be the custodian of the books and papers of the company, and shall countersign all orders and certificates of stock. (1921)

1.4 Treasurer. The treasurer shall receive all moneys of the company, and shall keep a correct account of

the same and pay them out only on the order of the president, countersigned by the secretary. (1921).

1.5 Superintendent. The superintendent shall have charge of the ditch and the repairs thereof; he shall keep the time of the laborers and report the same to the Board of Directors at each regular meeting, or whenever called upon by the president. He shall have control of all headgates and measuring boxes, and of the flow of water into the ditch, and its distribution therefrom. In all his duties he shall be under the supervision of the Board of Directors. (1921)

1.6 Salaries - Transfer Fees. Any salaries of the officers, transfer and review fees shall be set by the Board of Directors at any regular meeting. (1980)

ARTICLE II.

Meetings of Stockholders.

2.1 The annual meeting of the stockholders shall be held at some suitable place in Boulder County, Colorado, on the third Wednesday in February for the election of directors, set assessments and for the transaction of such other business proper to come before the meeting. (1980)

2.2 Whenever a vacancy shall occur in the Board of Directors, the remaining directors shall fill such vacancy by appointment for the remainder of the year. Special meetings of the stockholders may be called at any time, upon notice given in the manner provided by law for calling annual meetings, the object of such meetings to be specified in the call. (1921)

ARTICLE III.

Meetings of Directors.

3.1 The annual meeting of the Board of Directors

shall immediately follow the annual stockholders meeting.

3.2 Special meetings shall be held at any time or place by giving twelve hours notice of the time and place, by the president or secretary, to each member of the Board of Directors. At all meetings of the directors three (3) shall constitute a quorum. Presence of a director or written waiver of notice thereof at a meeting shall be considered the same as if proper notice had been given. (1921)

ARTICLE IV.

Transfer of Shares - Assessments - Change in Use.

4.1 Certificates. Certificates representing shares of the company shall be in such form as may be determined by the Board of Directors. Such certificates shall be signed by the president and secretary. All certificates for shares shall be consecutively numbered. All certificates surrendered to the company for transfer shall be cancelled and no new certificates shall be issued until the former certificate for a like number of shares shall have been surrendered and cancelled, except in each case of a lost, destroyed or mutilated certificate a new one may be issued therefor upon such terms and indemnity to the company as the board of directors may prescribe. (1980)

4.2 Transfer of Shares. Transfer of shares of the company shall be made on its stock transfer books by the record holder thereof or by its legal representative upon surrender for cancellation of the certificate for such shares and a duly executed assignment thereof. The person in whose name shares stand on the books of the company shall be deemed by the company to be the owner thereof for all purposes. (1980)

4.3 Minimum Restriction - Number of Shares. No transferee shall be entitled to have transferred or water delivered to him for a total of less than 0.5 (1/2) of one share, including all other shares owned by him in the aggregate. (1980)

4.4 Assessments.

(a) All assessments shall be paid in cash within thirty (30) days after due notice thereof, and in case of failure to pay said assessment the stock shall be sold, or such an amount thereof as may be necessary to pay said tax or indebtedness, together with any reasonable costs of sale, including attorney's fees.

(b) Stock shall be sold to highest bidder after having been duly advertised for thirty (30) days. Any money remaining shall be paid over to the party whose stock was sold.

(c) Unpaid assessments shall draw interest at the rate of fifteen (15) per cent per annum from date due until paid.

(d) No transfer of stock shall be made upon the order of any stockholder from whom assessments are due or who is in any way indebted to the company.

(e) No stockholder shall be entitled to water from the company's system until all past due assessments are paid.

(f) The company shall have a first lien on the rights and shares of the registered holder. Each stock certificate shall be endorsed as follows to show this lien, to-wit:

"The company has a first lien on all shares for payment of any indebtedness due the company by the shareholder and this stock and all rights thereunder shall not be transferred or allowed until such indebtedness shall be paid." (1980)

4.5 Change in Use - Right of First Refusal.

(a) Change in Use. The shares held in this company are for the purpose of delivering water to shareholders as a mutual irrigating ditch and reservoir company to bring water from Boulder Creek and its tributaries to farms along the ditch, primarily for irrigation and domestic purposes. No water shall be deliverable to any shareholder except through existing headgates or additional headgates specifically authorized in writing by the Board of Directors as to engineering feasibility, location and purpose of use. This bylaw shall not be construed to prohibit plans of augmentation, changes in the nature of the use, time of use, return flow patterns, purpose of use, point of diversion or other extended uses or changes in water rights, provided the same are allowable under Colorado law and provided there is no damage to any vested rights of any other shareholder by virtue of any such plan. The Board of Directors shall have discretionary authority to approve or disapprove such changes in the event there might be damage to a shareholder's vested interest. No such change shall be valid unless the same has been previously submitted to the Board of Directors. In the event such change has not been approved or disapproved within ninety days after the same has been submitted to the Board, no approval of the Board of Directors shall be required. (1980).

(b) Right of First Refusal. In the event of a bona fide offer to purchase shares the historic use of which will be changed as provided in paragraph 4.5(a), the shareholder shall submit the acceptable offer to purchase to the Board along with the plan for changes and the company shall have the right to purchase the shares for a ninety day period after such submittal. Any rights of first refusal shall terminate on March 22nd, 2000, unless renewed at a shareholder's meeting in 1999 for twenty-one additional years.

(c) Each certificate of stock hereinafter transferred shall contain the following endorsement thereon:

"Plans of augmentation, changes in nature of use, time of use, return flow patterns, purpose of use or changes in point of diversion or other extended uses or changes in the water rights appertaining to these shares are subject to the reasonable approval of the Board of Directors, as provided in the bylaws of the company. In addition, the Company has a right of first refusal on any purchase wherein such change is contemplated. No shareholder is entitled to own less than one-half (1/2) of one share in the aggregate."
(1980)

ARTICLE V.

Contracts.

It shall be the duty of the directors, by a majority vote, and they are hereby authorized to make all contracts that may be deemed necessary for the carrying on of all kinds of business, within the objects and purposes of the company. They shall make a memorandum of such contracts upon the minutes of the meeting and all such contracts when so made and entered of record shall be signed by the president on behalf of the company, and when so signed shall be binding upon the company. (1921)

ARTICLE VI.

Amendments.

These bylaws may be altered, amended or repealed at any meeting of the Board of Directors by a majority vote of a quorum of directors. (1980)

ARTICLE VII:

Seal.

The company adopts as its corporate seal a circular disc with its name around the outer edge and the word "Seal" in the center. Use of this seal is not mandatory. (1980)

ARTICLE VIII.

The Boulder & Left Hand Ditch.

To those who appear as shareholders in the former corporation, known as The Boulder & Left Hand Ditch Company, as said stockholders are now shown to be the owners of its stock by the books of said company, and according to the number of shares therein to which each would now be entitled had the existence of said last named corporation not terminated, and upon presentation and surrender of the certificates of stock issued by the said The Boulder & Left Hand Ditch Company or by its officers heretofore purporting to act for it, a certificate for stock in this company equivalent in amount to that represented by the certificate surrendered shall be issued by this company of its stock in lieu thereof. Until the stock shall be otherwise transferred or assigned, and transfers and assignments entered upon the books of this company, the rights of ownership of stock in this company and the rights of pledgees thereof shall be taken, considered and regarded by this company in all respects as if such rights were in The Boulder & Left Hand Ditch Company and the

AMENDMENT TO BYLAWS

The attached amendments to the Bylaws were adopted
at regular meetings of the shareholders and board of directors
of The Boulder & Left Hand Irrigation Company held on the 20th
day of February, 1980.

Richard L. Trick

Secretary.

OFFICE OF THE SECRETARY OF STATE
OF THE STATE OF COLORADO

CERTIFICATE

I, Scott Gessler, as the Secretary of State of the State of Colorado, hereby certify that, according to the records of this office,

BOULDER & LEFT HAND IRRIGATION COMPANY

is a **Nonprofit Corporation** formed or registered on 03/21/1921 under the law of Colorado, has complied with all applicable requirements of this office, and is in good standing with this office. This entity has been assigned entity identification number 19871073587.

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 03/19/2013 that have been posted, and by documents delivered to this office electronically through 03/20/2013 @ 13:11:07.

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, authenticated, issued, delivered and communicated this official certificate at Denver, Colorado on 03/20/2013 @ 13:11:07 pursuant to and in accordance with applicable law. This certificate is assigned Confirmation Number 8492710.



A handwritten signature in black ink, appearing to read "Scott Gessler", is written over a horizontal line.

Secretary of State of the State of Colorado

*****End of Certificate*****

Notice: A certificate issued electronically from the Colorado Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Certificate Confirmation Page of the Secretary of State's Web site, <http://www.sos.state.co.us/biz/CertificateSearchCriteria.do> entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our Web site, <http://www.sos.state.co.us/> click Business Center and select "Frequently Asked Questions."

Appendix E

Water Rights Summary and Diversion Records

Water Rights Report by Structure Name

HydroBase

WD ID	Water Right Name	Struct Type	Stream Information		Cty	Legal Location		Use Type	Decred Amt	U	Adj. Type	Adj. Date	Padj Date	Appt Date	Admin No	O #	Priority No.	Court Case Seq #	PIA Alter ID	Comment
			Type	Name		Q10 Q40 Q160 sec 15 mg pm	Q10 Q40 Q160 sec 15 mg pm													
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	3.5900	C	O,TT	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		CA6459		TB-7 TFR FM WELLMAN NICHOLS HAHND 03/07/1913
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	8.5000	C	O,AB	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		CA6459		ABAN 03/07/1913
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	10.0000	C	O,TT	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		CA6459		TB-7 03/07/1913
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	1.5900	C	O,AB	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		W9461		ABAN 08/08/1978
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	1.8000	C	O,TF	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		W9461		TFR TO WITTEMYER PUMP + PIPELINE
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	82.8000	C	O	1882-06-02	1882-06-02	1873-12-01	8736.00000	0		CA1267		99, 101
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	81.0000	C	O,AB	1882-06-02	1882-06-02	1876-04-01	9588.00000	0		84CW0204		ABAN 02/03/1988
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	1	1234568Q	81.0000	C	O	1882-06-02	1882-06-02	1876-04-01	9588.00000	0		CA1267		99
6 513	BOULDER LEFT HAND DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30 1 S 70 W S	0	1234568Q	50.0000	C	S	1953-09-28	1926-06-21	1947-10-30	35731.00000	0		CA12111		STORAGE IN DAVIS RES 1 & 2
6 946	BOULDER WELD C D BIXLER	1	58	BIXLER GULCH	BOU	SE NE 15 1 N 69 W S	1	1234568Q	10.0000	C	S	1991-12-31	1990-12-31	1871-05-01	51499.07791	0		91CW0099		91CW0099
6 947	BOULDER WELD C D JOHNSON	1	59	JOHNSON GULCH	BOU	SW SE NE 6 1 N 68 W S	1	1234568Q	5.0000	C	S	1991-12-31	1990-12-31	1871-05-01	51499.07791	0		91CW0099		91CW0099
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1859-10-01	3561.00000	0		80CW0468		ALT PT TO L BOULDER D
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	12Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1860-04-01	3744.00000	0		W9346		90CW108
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	12Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1862-05-25	4528.00000	0		W9347		ALT PT TO LAFAYETTE PL
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1	1234568Q	2.5000	C	O,TT	1882-06-02	1882-06-02	1863-04-01	4839.00000	0		CA6882		ALT PT TO S BOULDER BEAR CR D
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1863-05-01	4869.00000	0		80CW0468		TB-33 FM HAUCK NO 1 08/18/1913
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1234568Q	1234568Q	2.2160	C	O,AP	1882-06-02	1882-06-02	1864-04-01	5205.00000	0		80CW0468		ALT PT TO L BOULDER D
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	12Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1864-05-01	5235.00000	0		W9346		ALT PT TO COTTONWOOD D
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1234568Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1865-02-01	5511.00000	0		80CW0468		90CW108
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1234568Q	1234568Q	1.1510	C	O,AP	1882-06-02	1882-06-02	1866-04-01	5935.00000	0		80CW0468		ALT PT TO DRY CR #2 D W-8348
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1234568Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1866-05-15	5979.00000	0		80CW0468		90CW108
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1234568Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1866-06-01	5996.00000	0		80CW0468		ALT PT TO L BOULDER D
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1234568Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1870-06-01	7457.00000	0		80CW0468		ALT PT TO L BOULDER D
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1234568Q	1234568Q	1.5620	C	O,AP	1882-06-02	1882-06-02	1870-10-01	7579.00000	0		80CW0468		90CW108
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	1	1234568Q	59.4000	C	O	1882-06-02	1882-06-02	1871-05-01	7791.00000	0		CA1270		ALT PT TO COTTONWOOD NO 1 D 90CW108
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	12Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1872-04-15	8141.00000	0		W9348		74
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	12Q	1234568Q	0	C	O,AP	1882-06-02	1882-06-02	1873-06-01	8553.00000	0		W9348		ALT PT TO DAVIDSON D W-8347
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	0	1234568Q	0	C	S,C,AB	1984-12-31	1983-12-31	1980-04-15	48942.47587	0		84CW0294		ALT PT TO GOODHUE D
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	0	1234568Q	0	C	S,C	1984-12-31	1983-12-31	1980-04-15	48942.47587	0		84CW0294		ABAN 11/29/2010; STORAGE IN WILLIAMS RES NO 1
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	0	1234568Q	0	C	S,C	1984-12-31	1983-12-31	1980-04-15	48942.47587	0		84CW0294		ABAN 11/29/2010; STORAGE IN WILLIAMS RES NO 1
6 515	BOULDER WELD CTY DITCH	1	8	BOULDER CREEK	BOU	SW NE NW 15 1 N 69 W S	0	1234568Q	60.0000	C	S,C	1990-12-31	1989-12-31	1990-03-06	51199.00000	0		90CW0084		STORAGE IN IDAHO CR RES 97CW26098CW429

Water Rights Report by Structure Name

State of Colorado															HydroBase					
WD ID	Water Right Name	Struct Type	Stream Information		Legal Location		Use Type	Decreed Amt	U	Adj. Type	Adj. Date	Pudl Date	Apr Date	Admin No	O #	Priority No.	Court Case	Seq #	PIA Alter ID	Comment
			#	Name	Cty	Q10 Q40 Q160 sec to rng pm														
6 4175	DAVIS RES 1&2	3	8	BOULDER CREEK	BOU	11 1 N 70 W S	1	137.0000	A	S	1926-06-21	1907-03-13	1910-04-18	22022.00000	0			CA12111		629, 856 TWIN LAKE RES
6 4175	DAVIS RES 1&2	3	8	BOULDER CREEK	BOU	11 1 N 70 W S	1	81.0000	A	S	1953-09-28	1926-06-21	1947-10-30	35731.00000	0			CA12111		856 TWIN LAKE RES
6 4176	DAVIS SEEP RES	3	8	BOULDER CREEK	BOU	14 1 N 70 W S	1	26.0000	A	S	1926-06-21	1907-03-13	1910-12-17	22265.00000	0			CA6672		638

Explanation of Codes:

Struct Type: 0 - other, 1 - ditch, 2 - well, 3 - reservoir, 4 - spring, 5 - seep, 6 - mine, 7 - pipeline, 8 - pump, 9 - power plant

Use Codes: 0 - storage, 1 - irrigation, 2 - municipal, 3 - commercial, 4 - industrial, 5 - recreation, 6 - fishery, 7 - fire, 8 - domestic, 9 - stock, A - augmentation, B - export from basin, C - cumulative depletion from river, E - evaporation, F - federal reserve, G - geothermal, H - household use only, K - snow making, M - minimum streamflow, N - net effect of river, P - power generation, Q - other, R - recharge, S - export from state, T - transmountain export, W - wildlife, X - all beneficial use

Adj Type: AB - abandoned, AP - alternate point, C - conditional, CA - conditional made absolute, EX - exchange, O - original, S - supplemental, TF - transfer from, TT - transfer to

Admin Number is a number developed by DWR to provide a simple and efficient method of ranking decrees in order of seniority.

Water Rights Report by Structure Name

State of Colorado																			HydroBase			
WD ID	Water Right Name	Struct Type	Stream Information		Legal Location			Use Type	Decreed Amt	U	Adj. Type	Adj. Date	Padj Date	Appt Date	Admin No	O #	Priority No.	Court Case	Seq #	P/A	Altair ID	Comment
			#	Name	Cty	Q10	Q40															
6 4177	HAYDEN LAKE RES	3	8	BOULDER CREEK	BOU	SW 21 1 N 70 W S	1	190.1000	A	S	1953-09-28	1926-06-21	1905-07-21	27930.20290	0			CA12111			839	
6 4177	HAYDEN LAKE RES	3	8	BOULDER CREEK	BOU	SW 21 1 N 70 W S	1	311.7000	A	S	1953-09-28	1926-06-21	1930-06-21	28391.00000	0			CA12111			839	
6 4177	HAYDEN LAKE RES	3	8	BOULDER CREEK	BOU	SW 21 1 N 70 W S	1	501.8000	A	S	1953-09-28	1926-06-21	1938-09-01	32385.00000	0			CA12111			839	

Explanation of Codes:

Struct Type: 0 - other, 1 - ditch, 2 - well, 3 - reservoir, 4 - spring, 5 - seep, 6 - mine, 7 - pipeline, 8 - pump, 9 - power plant

Use Codes: 0 - storage, 1 - irrigation, 2 - municipal, 3 - commercial, 4 - industrial, 5 - recreation, 6 - fishery, 7 - fire, 8 - domestic, 9 - stock, A - augmentation, B - export from basin, C - cumulative accretion to river, D - cumulative depletion from river, E - evaporation, F - federal reserve, G - geothermal, H - household use only, K - snow making, M - minimum streamflow, N - net effect of river, P - power generation, Q - other, R - recharge, S - export from state, T - transmountain export, W - wildlife, X - all beneficial use

Adj Type: AB - abandoned, AP - alternate point, C - conditional, CA - conditional made absolute, EX - exchange, O - original, S - supplemental, TF - transfer from, TT - transfer to

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Water Rights Report by Structure Name

State of Colorado														HydroBase									
WD ID	Water Right Name	Struct Type	Stream Information		Legal Location			Use Type	Decreed Amt	U	Adj. Type	Adj. Date	Pudl Date	Aprr Date	Admin No	O #	Priority No.	Court Case	Seq #	PIA	Alter ID	Comment	
			#	Name	Cty	Q10 Q40 Q160	secs																ring
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	10.7800	C	O	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		CA1354				98, 320 W-750602CW387 CHNG PT USE	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	1.2300	C	O,TF	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		94CW0285	A0602208			BOULDER CHNG USE 12/22/1997	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	2X	1.2300	C	O,TT	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		94CW0285	A0602208			BOULDER CHNG USE 12/22/1997 02CW072 CHNG PLACE OF USE	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	0.2057	C	O,TF	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		91CW0038	R0602667			CHNG USE WALDEN POND AUG 08/31/1993	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	0.0450	C	O,TF	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		W7413				TFR TO NEDERLAND CITY W W ASP 98,320 NEW PT DWR W-8485	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	A	0.2057	C	O,TT	1882-06-02	1882-06-02	1862-06-01	4535.00000	0		91CW0038	R0602667			CHNG USE WALDEN POND AUG 08/31/1993	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	28.0300	C	O,AB	1882-06-02	1882-06-02	1863-06-01	4900.00000	0		CA6582				98, 320, 373	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	0.7103	C	O,TF	1882-06-02	1882-06-02	1863-06-01	4900.00000	0		91CW0038	R0602667			CHNG USE WALDEN POND AUG 08/31/1993	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	4.2600	C	O,TF	1882-06-02	1882-06-02	1863-06-01	4900.00000	0		94CW0285	A0602208			BOULDER CHNG USE 12/22/1997	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	A	0.7103	C	O,TT	1882-06-02	1882-06-02	1863-06-01	4900.00000	0		91CW0038	R0602667			CHNG USE WALDEN POND AUG 08/31/1993	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	65.2500	C	O	1882-06-02	1882-06-02	1863-06-01	4900.00000	0		CA1354				327 W-750602CW387 CHNG PT USE	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	X2	4.2600	C	O,TT	1882-06-02	1882-06-02	1863-06-01	4900.00000	0		94CW0285	A0602208			BOULDER CHNG USE 12/22/1997 02CW072 CHNG PLACE OF USE	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	0.1550	C	O,TF	1882-06-02	1882-06-02	1863-06-01	4900.00000	0		W7413				TFR TO NEDERLAND CITY W W ASP 98,320 NEW PT DWR W-8485	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	115.1200	C	O,C	1882-06-02	1882-06-02	1864-06-01	5266.00000	0		CA1354				327	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 N 70 W S	1	115.1200	C	O,C,AB	1882-06-02	1882-06-02	1864-06-01	5266.00000	0		CA6582				AB	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 S 70 W S	0	6.6000	C	S	1926-06-21	1907-03-13	1910-04-18	22022.00000	0		CA6672				562 STORAGE IN DAVIS RES 1 & 2	
6	543 N BOULD FARMER DITCH	1	8	BOULDER CREEK	BOU	SE SW SW 30	1 S 70 W S	0	7.9000	C	S	1926-06-21	1907-03-13	1910-12-17	22265.00000	0		CA6672				STORAGE IN DAVIS SEEPAGE RES	

Explanation of Codes:

Struct Type: 0 - other, 1 - ditch, 2 - well, 3 - reservoir, 4 - spring, 5 - seep, 6 - mine, 7 - pipeline, 8 - pump, 9 - power plant

Use Codes: 0 - storage, 1 - irrigation, 2 - municipal, 3 - commercial, 4 - industrial, 5 - recreation, 6 - fishery, 7 - fire, 8 - domestic, 9 - stock, A - augmentation, B - export from basin, C - cumulative accretion to river, D - cumulative depletion from river, E - evaporation, F - federal reserve, G - geothermal, H - household use only, K - snow making, M - minimum streamflow, N - net effect of river, P - power generation, Q - other, R - recharge, S - export from state, T - transmountain export, W - wildlife, X - all beneficial use

Adj Type: AB - abandoned, AP - alternate point, C - conditional, CA - conditional made absolute, EX - exchange, O - original, S - supplemental, TF - transfer from, TT - transfer to

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State of Colorado

BOULDER LEFT HAND DITCH

Division: 1 Water District: 6

Annual Water Diversion Report

HydroBase

Structure Name: Q10 Q40 Q160 Section Township Range PM
Location: SE SW SW 30 1S 70W S

Structure Id: 513

Distance From Section Lines: From N/S Line: From E/W Line:

UTM Coordinates (NAD 83): Northing (UTM y): 4419915 Easting (UTM x): 476633.9

Latitude/Longitude (decimal degrees): 39.929015 -105.273452

Spotted from PLSS distances from section lines

YR	Identifier	FDU	LDU	DWC	Max Q/Date	NOBS	NUS	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual Total	Unit
1950	Total	1950-05	08-1950	85	30.00 06-18	24	0	0.00	0.00	0.00	0.00	0.00	205.29	799.35	92.23	11.90	0.00	0.00	1108.78	AF
1951	Total	1951-05	09-1951	120	40.00 06-08	24	0	0.00	0.00	0.00	0.00	0.00	535.55	844.97	769.60	99.18	68.43	0.00	2317.72	AF
1952	Total	1952-05	09-1952	114	48.00 06-07	21	0	0.00	0.00	0.00	0.00	0.00	59.51	1063.16	324.30	92.23	71.41	0.00	1610.60	AF
1953	Total	1953-05	08-1953	101	25.00 05-29	15	0	0.00	0.00	0.00	0.00	0.00	241.99	927.29	101.16	68.43	0.00	0.00	1338.86	AF
1954	Total	1954-05	08-1954	77	4.00 05-29	10	0	0.00	0.00	0.00	0.00	0.00	62.48	229.09	111.08	5.95	0.00	0.00	408.60	AF
1955	Total	1955-06	09-1955	84	30.00 06-16	11	0	0.00	0.00	0.00	0.00	0.00	0.00	381.82	92.23	80.33	14.88	0.00	589.26	AF
1956	Total	1956-05	08-1956	93	34.00 05-29	15	0	0.00	0.00	0.00	0.00	0.00	529.60	1068.12	92.23	38.68	0.00	0.00	1728.62	AF
1957	Total	1957-06	09-1957	107	20.00 07-02	17	0	0.00	0.00	0.00	0.00	0.00	0.00	446.29	755.71	200.33	77.36	0.00	1479.69	AF
1958	Total	1958-06	09-1958	111	24.00 06-12	12	0	0.00	0.00	0.00	0.00	0.00	0.00	546.45	92.23	92.23	65.46	0.00	796.38	AF
1959	Total	1959-05	09-1959	134	11.00 05-21	10	0	0.00	0.00	0.00	0.00	0.00	257.86	515.71	107.11	92.23	83.31	0.00	1056.21	AF
1960	Total	1960-04	10-1960	160	14.00 06-06	18	0	0.00	0.00	0.00	0.00	47.60	68.43	372.90	92.23	92.23	89.26	11.90	774.56	AF
1961	Total	1961-06	09-1961	87	8.00 06-15	12	0	0.00	0.00	0.00	0.00	0.00	0.00	186.45	92.23	92.23	20.83	0.00	391.74	AF
1962	Total	1962-05	08-1962	120	12.00 06-26	14	0	0.00	0.00	0.00	0.00	0.00	108.10	149.75	310.42	86.28	0.00	0.00	654.56	AF
1963	Total	1963-05	10-1963	148	12.00 06-17	11	0	0.00	0.00	0.00	0.00	0.00	74.38	196.37	86.28	55.54	86.28	20.83	519.68	AF
1964	Total	1964-05	08-1964	90	15.00 06-18	9	0	0.00	0.00	0.00	0.00	0.00	47.60	383.81	92.23	38.68	0.00	0.00	562.32	AF
1965	Total	1965-04	07-1965	44	24.00 07-01	12	0	0.00	0.00	0.00	0.00	9.92	19.84	285.62	351.08	0.00	0.00	0.00	666.46	AF
1967	Total	1967-05	10-1967	132	24.00 05-28	25	0	0.00	0.00	0.00	0.00	0.00	213.23	180.50	330.25	111.08	850.92	860.84	2546.81	AF
1968	Total	1968-05	09-1968	120	17.00 06-07	21	0	0.00	0.00	0.00	0.00	0.00	122.98	445.30	92.23	61.49	9.92	0.00	731.91	AF
1969	Total	1969-05	09-1969	113	25.00 07-08	27	0	0.00	0.00	0.00	0.00	0.00	166.61	414.55	360.01	92.23	71.41	0.00	1104.81	AF
1970	Total	1970-05	08-1970	97	17.00 05-19	101	0	0.00	0.00	0.00	0.00	0.00	499.84	489.93	275.71	56.53	0.00	0.00	1322.00	AF
1971	Total	1971-05	08-1971	68	30.00 06-23	87	0	0.00	0.00	0.00	0.00	0.00	55.54	967.95	54.55	25.79	0.00	0.00	1103.82	AF
1972	Total	1972-06	07-1972	45	24.00 06-12	53	0	0.00	0.00	0.00	0.00	0.00	0.00	390.75	58.51	0.00	0.00	0.00	449.26	AF
1973	Total	1973-06	09-1973	82	29.00 06-22	83	0	0.00	0.00	0.00	0.00	0.00	0.00	507.78	199.34	61.49	13.89	0.00	782.49	AF
1974	Total	1974-05	09-1974	103	17.00 06-27	109	0	0.00	0.00	0.00	0.00	0.00	75.37	501.83	92.23	76.37	25.79	0.00	771.58	AF
1975	Total	1975-06	08-1975	72	37.00 06-21	83	0	0.00	0.00	0.00	0.00	0.00	0.00	519.68	257.86	43.64	0.00	0.00	821.17	AF
1976	Total	1976-05	07-1976	35	2.00 06-09	50	0	0.00	0.00	0.00	0.00	0.00	29.75	43.64	3.97	0.00	0.00	0.00	77.36	AF
1977	Total	1977-05	07-1977	57	2.00 05-07	60	0	0.00	0.00	0.00	0.00	0.00	53.56	59.51	1.98	0.00	0.00	0.00	115.04	AF
1978	Total	1978-06	09-1978	89	44.00 06-27	93	0	0.00	0.00	0.00	0.00	0.00	0.00	440.34	285.79	63.47	27.77	0.00	797.37	AF
1979	Total	1979-06	08-1979	63	18.00 07-05	65	0	0.00	0.00	0.00	0.00	0.00	0.00	128.93	203.31	49.59	0.00	0.00	381.82	AF
1980	Total	1980-06	09-1980	92	41.00 06-24	96	0	0.00	0.00	0.00	0.00	0.00	0.00	1029.44	454.22	61.49	9.92	0.00	1555.06	AF
1981	Total	1981-05	07-1981	86	11.00 06-01	93	0	0.00	0.00	0.00	0.00	0.00	108.10	351.08	74.38	0.00	0.00	0.00	533.56	AF

YR	Identifier	FDU	LDU	DWC	Max Q/Date	NOBS	NUS	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual Total	Unit
1982	Total	1982-06	08-1982	79	21.00 07-09	90	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	392.98	404.63	61.49	0.00	0.00	829.10	AF
1983	Total	1983-07	09-1983	86	28.00 07-07	89	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.23	86.28	0.00	563.31	AF
1984	Total	1984-05	10-1984	130	7.00 06-02	131	0	0.00	0.00	0.00	0.00	0.00	0.00	35.70	194.38	148.76	71.41	96.20	2.98	549.43	AF
1985	Total	1985-04	08-1985	121	11.00 04-16	125	0	0.00	0.00	0.00	0.00	0.00	95.21	214.22	331.25	138.85	97.19	0.00	0.00	876.71	AF
1986	Total	1986-05	09-1986	124	12.00 06-28	125	0	0.00	0.00	0.00	0.00	0.00	0.00	19.84	333.23	92.23	92.23	89.26	0.00	626.79	AF
1987	Total	1987-05	10-1987	144	14.00 08-25	148	0	0.00	0.00	0.00	0.00	0.00	0.00	306.95	411.06	320.51	329.52	230.13	0.83	1599.00	AF
1988	Total	1988-05	08-1988	116	26.30 06-19	119	0	0.00	0.00	0.00	0.00	0.00	0.00	360.76	904.79	129.52	64.44	0.00	0.00	1459.52	AF
1989	Total	1989-04	08-1989	97	8.31 04-26	100	0	0.00	0.00	0.00	0.00	0.00	104.77	36.64	54.45	110.28	67.02	0.00	0.00	373.16	AF
1990	Total	1990-05	08-1990	93	18.60 06-27	94	0	0.00	0.00	0.00	0.00	0.00	0.00	142.32	341.62	161.99	32.71	0.00	0.00	678.64	AF
1991	Total	1991-04	10-1991	170	15.30 05-24	174	0	0.00	0.00	0.00	0.00	0.00	32.57	418.82	266.42	190.32	212.63	96.34	57.32	1274.42	AF
1992	Total	1992-04	10-1992	177	18.60 05-30	178	0	0.00	0.00	0.00	0.00	0.00	115.20	529.46	682.76	119.65	198.61	101.16	20.23	1767.06	AF
1993	Total	1993-04	09-1993	166	16.30 06-17	168	0	0.00	0.00	0.00	0.00	0.00	344.10	551.35	612.51	276.86	104.53	249.33	0.00	2138.67	AF
1994	Total	1994-04	10-1994	144	12.90 06-19	146	0	0.00	0.00	0.00	0.00	0.00	133.47	314.90	266.46	104.53	103.76	101.16	16.86	1041.14	AF
1995	Total	1995-07	10-1995	89	20.30 08-04	90	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	579.34	880.08	164.19	9.38	1633.00	AF
1996	Total	1996-05	09-1996	140	25.90 05-15	141	0	0.00	0.00	0.00	0.00	0.00	0.00	658.11	744.21	446.88	104.53	60.70	0.00	2014.42	AF
1997	Total	1997-04	09-1997	151	32.18 07-31	154	0	0.00	0.00	0.00	0.00	0.00	134.46	499.15	472.61	882.90	650.75	173.99	0.00	2813.85	AF
1998	Total	1998-05	10-1998	155	21.05 05-21	157	0	0.00	0.00	0.00	0.00	0.00	0.00	668.58	621.91	845.39	691.59	101.16	16.86	2945.48	AF
1999	Total	1999-03	10-1999	155	29.74 09-28	159	0	0.00	0.00	0.00	0.00	61.93	159.79	426.95	939.03	388.83	271.64	319.62	10.02	2577.80	AF
2000	Total	2000-05	09-2000	151	30.88 05-08	152	0	0.00	0.00	0.00	0.00	0.00	0.00	943.57	387.75	104.53	104.53	95.88	0.00	1636.27	AF
2001	Total	2001-05	10-2001	141	20.73 07-15	142	0	0.00	0.00	0.00	0.00	0.00	0.00	305.62	498.61	211.48	104.53	121.23	15.17	1256.65	AF
2002	Total	2002-04	09-2002	118	1.70 04-27	121	0	0.00	0.00	0.00	0.00	0.00	13.49	104.53	101.16	104.53	16.86	57.26	0.00	397.83	AF
2003	Total	2003-03	10-2003	186	18.10 06-02	188	0	0.00	0.00	0.00	0.00	24.60	139.44	450.85	754.13	342.55	104.53	101.16	50.58	1967.83	AF
2004	Total	2004-04	10-2004	164	17.40 06-08	165	0	0.00	0.00	0.00	0.00	0.00	86.70	300.30	392.93	242.98	123.97	156.90	5.95	1309.73	AF
2005	Total	2005-05	10-2005	162	16.00 07-03	163	0	0.00	0.00	0.00	0.00	0.00	0.00	470.29	724.77	215.41	104.53	101.16	30.35	1646.50	AF
2006	Total	2006-04	09-2006	152	22.50 06-13	153	0	0.00	0.00	0.00	0.00	0.00	13.49	395.91	580.77	384.40	104.53	82.02	0.00	1561.11	AF
2007	Total	2007-05	09-2007	145	20.00 06-22	146	0	0.00	0.00	0.00	0.00	0.00	0.00	393.92	668.64	104.53	104.53	97.79	0.00	1369.41	AF
2008	Total	2008-05	10-2008	152	25.50 07-04	153	0	0.00	0.00	0.00	0.00	0.00	0.00	185.46	1004.05	441.73	199.14	101.16	10.12	1941.65	AF
2009	Total	2009-04	10-2009	163	15.50 07-13	164	0	0.00	0.00	0.00	0.00	0.00	133.57	425.16	470.29	389.76	104.53	101.16	6.74	1631.21	AF
2010	Total	2010-05	10-2010	152	15.30 06-11	154	0	0.00	0.00	0.00	0.00	0.00	0.00	122.98	584.54	352.87	104.53	101.16	31.48	1297.55	AF
2011	Total	2011-04	10-2011	176	20.00 07-07	177	0	0.00	0.00	0.00	0.00	0.00	85.29	285.78	817.80	950.30	271.94	101.16	42.84	2555.11	AF

Legend for identifier string coding:

Source (S): 1 - Natural Streamflow, 2 - Reservoir Storage, 3 - Ground water (wells), 4 - Transbasin, 5 - Non-stream (springs, run-off), 6 - Combined, 7 - Transdistrict, 8 - Re-used, 9 - Multiple, R - Remeasured and rediverted
From (F): From structure WDIID
Use (U): 0 - Storage, 1 - Irrigation, 2 - Municipal, 3 - Commercial, 4 - Industrial, 5 - Recreation, 6 - Fishery, 7 - Fire, 8 - Domestic, 9 - Stock, A - Augmentation, B - Export from basin, C - Cumulative accretion to river,
D - Cumulative depletion from river, E - Evaporation, F - Federal reserve, G - Geothermal, H - Household use only, K - Snow making, M - Minimum streamflow, N - Net effect of river, P - Power generation, Q - Other, R - Recharge,
S - Export from state, T - Transmountain export, W - Wildlife, X - All beneficial use
Diversion Type (T): 0 - Administrative record only, 1 - Exchange, 2 - Trade, 3 - Carrier, 4 - Alternate point of diversion, 5 - Re-used, 6 - Replacement to river, 7 - Released by river, 8 - Released to stream, A - Augmented, G - Geothermal,
S - Reservoir substitution
Group (G): Group structure WDIID

Annual Water Diversion Report

State of Colorado
 Structure Name: DAVIS RES 1&2
 Location: Q10 Q40 Q160 Section Township Range PM
 11 1N 70W S
 Division: 1 Water District: 6 Structure Id: 4175 HydroBase 4175

Distance From Section Lines: From N/S Line: From E/W Line:
 UTM Coordinates (NAD 83): Northing (UTM y): 4435042 Easting (UTM x): 483154.2
 Latitude/Longitude (decimal degrees): 40.065466 -105.197538
 Spoited from PLSS distances from section lines

I/YR	Identifier	FDU	LDU	DWC	Max Q/Date	NOBS	NUS	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual Total	Unit
1976	Total	1976-05	05-1976	8	12.00	05-04	10	0	0.00	0.00	0.00	0.00	0.00	162.65	0.00	0.00	0.00	0.00	0.00	162.65	AF
1977	Total	1977-02	02-1977	8	12.00	02-21	10	0	0.00	0.00	162.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162.65	AF
1978	Total	1978-05	05-1978	3	20.00	05-11	6	0	0.00	0.00	0.00	0.00	0.00	119.01	0.00	0.00	0.00	0.00	0.00	119.01	AF
1979	Total	1979-04	05-1979	5	20.00	04-27	8	0	0.00	0.00	0.00	0.00	158.68	39.67	0.00	0.00	0.00	0.00	0.00	198.35	AF
2009	Total	2009-04	04-2009	8	15.40	04-27	9	0	0.00	0.00	0.00	0.00	133.57	0.00	0.00	0.00	0.00	0.00	0.00	133.57	AF
2010	Total	2010-05	05-2010	17	7.43		18	0	0.00	0.00	0.00	0.00	0.00	116.37	0.00	0.00	0.00	0.00	0.00	116.37	AF
2011	Total	2011-04	05-2011	20	5.20	04-30	21	0	0.00	0.00	0.00	0.00	85.29	84.50	0.00	0.00	0.00	0.00	0.00	169.79	AF

Legend for identifier string coding:

Source (S): 1 - Natural Streamflow, 2 - Reservoir Storage, 3 - Ground water (wells), 4 - Transbasin, 5 - Non-stream (springs, run-off), 6 - Combined, 7 - Transdistrict, 8 - Re-used, 9 - Multiple, R - Remeasured and rediverted
 From (F): From structure WDID
 Use (U): 0 - Storage, 1 - Irrigation, 2 - Municipal, 3 - Commercial, 4 - Industrial, 5 - Recreation, 6 - Fishery, 7 - Fire, 8 - Domestic, 9 - Stock, A - Augmentation, B - Export from basin, C - Cumulative accretion to river, D - Cumulative depletion from river, E - Evaporation, F - Federal reserve, G - Geothermal, H - Household use only, K - Snow making, M - Minimum streamflow, N - Net effect of river, P - Power generation, Q - Other, R - Recharge, S - Export from state, T - Transmountain export, W - Wildlife, X - All beneficial use
 Diversion Type (T): 0 - Administrative record only, 1 - Exchange, 2 - Trade, 3 - Carrier, 4 - Alternate point of diversion, 5 - Re-used, 6 - Replacement to river, 7 - Released by river, 8 - Released to stream, A - Augmented, G - Geothermal, S - Reservoir substitution
 Group (G): Group structure WDID

Annual Water Diversion Report

State of Colorado
 Structure Name: HAYDEN LAKE RES
 Location: Q10 Q40 Q160 Section Township Range PM
 SW 21 1N 70W S
 Division: 1 Water District: 6 Structure Id: 4177
 HydroBase

Distance From Section Lines: From N/S Line: From E/W Line:
 UTM Coordinates (NAD 83): Northing (UTM y): 4431422 Easting (UTM x): 479559.6
 Latitude/Longitude (decimal degrees): 40.032767 -105.239575
 Spotted from PLSS distances from section lines

YR	Identifier	FDU	LDU	DWC	Max Q/Date	NOBS	NUS	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual Total	Unit
1976	Total	1976-05	10-1976	23	10.00	05-01	39	0	0.00	0.00	0.00	0.00	0.00	119.01	0.00	0.00	0.00	0.00	0.00	275.71	394.72 AF
1978	Total	1977-12	12-1977	7	11.00	12-17	8	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.99 AF
1979	Total	1978-11	11-1978	8	20.00	11-01	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	317.36 AF
1981	Total	1980-11	11-1980	4	10.00	11-02	20	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.49 AF
2009	Total	2009-04	05-2009	15	5.00	04-17	17	0	0.00	0.00	0.00	0.00	119.01	23.80	0.00	0.00	0.00	0.00	0.00	0.00	142.81 AF
2010	Total	2010-04	05-2010	39	4.00	05-17	40	0	0.00	0.00	0.00	0.00	53.56	206.28	0.00	0.00	0.00	0.00	0.00	0.00	259.84 AF
2011	Total	2011-05	05-2011	10	10.00	05-19	11	0	0.00	0.00	0.00	0.00	0.00	198.35	0.00	0.00	0.00	0.00	0.00	0.00	198.35 AF

Legend for identifier string coding:

Source (S): 1 - Natural Streamflow, 2 - Reservoir Storage, 3 - Ground water (wells), 4 - Transbasin, 5 - Non-stream (springs, run-off), 6 - Combined, 7 - Transdistrict, 8 - Re-used, 9 - Multiple, R - Remeasured and rediverted
 From (F): From structure WDID
 Use (U): 0 - Storage, 1 - Irrigation, 2 - Municipal, 3 - Commercial, 4 - Industrial, 5 - Recreation, 6 - Fishery, 7 - Fire, 8 - Domestic, 9 - Stock, A - Augmentation, B - Export from basin, C - Cumulative accretion to river, D - Cumulative depletion from river, E - Evaporation, F - Federal reserve, G - Geothermal, H - Household use only, K - Snow making, M - Minimum streamflow, N - Net effect of river, P - Power generation, Q - Other, R - Recharge, S - Export from state, T - Transmountain export, W - Wildlife, X - All beneficial use
 Diversion Type (T): 0 - Administrative record only, 1 - Exchange, 2 - Trade, 3 - Carrier, 4 - Alternate point of diversion, 5 - Re-used, 6 - Replacement to river, 7 - Released by river, 8 - Released to stream, A - Augmented, G - Geothermal, S - Reservoir substitution
 Group (G): Group structure WDID

Location: Q10 Q40 Q160 Section Township Range PM

SE SW SW 30 1S 70W S

Distance From Section Lines: From N/S Line: From E/W Line:

UTM Coordinates (NAD 83): Northing (UTM y): 4419915 Easting (UTM x): 476633.9

Latitude/Longitude (decimal degrees): 39.929015 -105.273452

Spotted from PLSS distances from section lines

IYR	Identifier	FDU	LDU	DWC	Max Q/Date	NOBS	NUS	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual Total	Unit
1950	Total	1950-05	10-1950	107	44.00 06-29	45	0	0.00	0.00	0.00	0.00	0.00	0.00	541.50	1344.81	1301.18	71.41	241.99	95.21	3596.09	AF
1951	Total	1951-05	10-1951	120	35.00 07-07	25	0	0.00	0.00	0.00	0.00	0.00	0.00	182.48	963.98	1412.25	476.04	852.91	47.60	3935.26	AF
1952	Total	1952-06	10-1952	123	40.00 06-25	25	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1432.09	1816.89	1118.69	414.55	28.75	4811.97	AF
1953	Total	1953-05	09-1953	111	40.00 05-28	34	0	0.00	0.00	0.00	0.00	0.00	0.00	833.07	1900.19	1781.18	620.84	27.77	0.00	5163.05	AF
1954	Total	1954-04	08-1954	88	40.00 05-20	30	0	0.00	0.00	0.00	0.00	0.00	15.87	1176.22	872.74	583.15	15.87	0.00	0.00	2663.84	AF
1955	Total	1955-05	09-1955	120	44.00 07-05	36	0	0.00	0.00	0.00	0.00	0.00	0.00	854.89	1699.86	1277.37	837.04	105.13	0.00	4774.28	AF
1956	Total	1956-05	08-1956	102	40.00 07-02	23	0	0.00	0.00	0.00	0.00	0.00	0.00	938.20	1773.25	1138.53	283.64	0.00	0.00	4133.61	AF
1957	Total	1957-06	09-1957	113	34.00 07-05	30	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	803.32	1646.31	1207.95	739.85	0.00	4397.42	AF
1958	Total	1958-06	09-1958	112	39.00 07-06	44	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1360.68	1598.70	680.34	323.31	0.00	3963.03	AF
1959	Total	1959-05	09-1959	134	36.00 07-06	37	0	0.00	0.00	0.00	0.00	0.00	0.00	436.37	1533.25	1882.34	946.13	610.92	0.00	5409.01	AF
1960	Total	1960-04	10-1960	167	44.00 06-25	37	0	0.00	0.00	0.00	0.00	0.00	279.67	684.31	1925.98	1943.83	944.15	599.02	87.27	6464.23	AF
1961	Total	1961-05	09-1961	149	43.00 07-06	48	0	0.00	0.00	0.00	0.00	0.00	0.00	364.96	1049.27	1922.01	908.44	597.03	0.00	4841.72	AF
1962	Total	1962-04	10-1962	145	48.00 06-29	49	0	0.00	0.00	0.00	0.00	0.00	158.68	1743.50	1041.34	1745.48	642.65	113.06	19.84	5464.54	AF
1963	Total	1963-04	10-1963	166	42.00 05-25	65	0	0.00	0.00	0.00	0.00	0.00	41.65	1174.23	1277.37	648.61	654.56	434.39	216.20	4447.01	AF
1964	Total	1964-05	08-1964	93	48.00 05-26	35	0	0.00	0.00	0.00	0.00	0.00	0.00	1104.81	1420.19	1957.72	376.87	0.00	0.00	4859.58	AF
1965	Total	1965-04	10-1965	182	42.00 07-20	75	0	0.00	0.00	0.00	0.00	0.00	222.15	1285.31	860.84	1751.43	1283.32	448.27	97.19	5948.52	AF
1966	Total	1966-05	08-1966	95	35.00 06-09	36	0	0.00	0.00	0.00	0.00	0.00	0.00	803.32	1584.82	698.19	178.52	0.00	0.00	3264.84	AF
1967	Total	1967-05	10-1967	120	42.00 06-08	48	0	0.00	0.00	0.00	0.00	0.00	0.00	509.76	535.55	593.07	515.71	261.82	341.16	2757.07	AF
1968	Total	1968-05	09-1968	129	43.00 06-25	54	0	0.00	0.00	0.00	0.00	0.00	0.00	1009.60	1368.62	1795.07	904.48	234.05	0.00	5311.81	AF
1969	Total	1969-05	10-1969	130	48.00 07-13	64	0	0.00	0.00	0.00	0.00	0.00	0.00	511.74	553.40	2052.92	910.43	398.68	89.26	4516.43	AF
1970	Total	1970-05	09-1970	133	45.00 07-08	138	0	0.00	0.00	0.00	0.00	0.00	0.00	1003.65	733.90	1884.33	751.75	341.16	0.00	4714.78	AF
1971	Total	1971-05	09-1971	117	34.00 07-15	120	0	0.00	0.00	0.00	0.00	0.00	0.00	170.58	1188.12	1473.74	779.52	327.28	0.00	3939.23	AF
1972	Total	1972-05	09-1972	144	45.00 07-07	147	0	0.00	0.00	0.00	0.00	0.00	0.00	952.08	1154.40	1291.26	743.81	347.11	0.00	4488.66	AF
1973	Total	1973-06	09-1973	116	48.00 07-09	117	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	658.52	2227.47	1069.11	172.57	0.00	4127.66	AF
1974	Total	1974-05	09-1974	135	49.00 06-01	136	0	0.00	0.00	0.00	0.00	0.00	0.00	1231.75	1499.53	2142.18	916.38	339.18	0.00	6129.02	AF
1975	Total	1975-05	09-1975	132	50.00 07-02	134	0	0.00	0.00	0.00	0.00	0.00	0.00	926.29	761.66	2104.49	1082.99	347.11	0.00	5222.56	AF
1976	Total	1976-05	09-1976	130	42.00 06-24	144	0	0.00	0.00	0.00	0.00	0.00	0.00	846.96	1949.78	1890.28	908.44	327.28	0.00	5922.73	AF
1977	Total	1977-05	09-1977	128	42.00 06-09	133	0	0.00	0.00	0.00	0.00	0.00	0.00	884.64	1991.43	602.98	650.59	392.73	0.00	4522.38	AF
1978	Total	1978-05	10-1978	130	50.00 07-07	143	0	0.00	0.00	0.00	0.00	0.00	0.00	265.79	1071.09	2120.36	1116.71	525.63	37.69	5137.27	AF
1979	Total	1979-05	10-1979	147	46.00 07-19	150	0	0.00	0.00	0.00	0.00	0.00	0.00	448.27	749.76	2072.76	741.83	519.68	164.63	4696.93	AF
1980	Total	1980-06	09-1980	100	49.00 07-22	104	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1029.44	1598.70	1075.06	331.25	0.00	4034.44	AF

YR	Identifier	FDU	LDU	DWC	Max Q/Date	NOBS	NUS	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual Total	Unit
1981	Total	1981-05	09-1981	136	31.00 06-30	153	0	0.00	0.00	0.00	0.00	0.00	0.00	642.65	1081.01	1158.36	472.07	343.15	0.00	3697.24	AF
1982	Total	1982-05	09-1982	139	50.00 07-13	147	0	0.00	0.00	0.00	0.00	0.00	0.00	606.95	1049.27	1731.60	1765.32	650.59	0.00	5803.72	AF
1983	Total	1983-05	10-1983	145	30.00 07-24	147	0	0.00	0.00	0.00	0.00	0.00	0.00	47.60	523.64	932.25	1245.64	575.22	45.62	3369.97	AF
1984	Total	1984-05	10-1984	132	37.00 05-28	133	0	0.00	0.00	0.00	0.00	0.00	0.00	448.27	1243.66	1749.45	1451.92	880.67	71.41	5845.37	AF
1985	Total	1985-04	09-1985	160	33.00 07-20	162	0	0.00	0.00	0.00	0.00	0.00	269.76	648.61	1086.96	1390.43	751.75	527.61	0.00	4675.11	AF
1986	Total	1986-05	10-1986	155	30.00 07-05	157	0	0.00	0.00	0.00	0.00	0.00	0.00	485.96	1108.78	1495.56	837.04	579.18	57.52	4564.03	AF
1987	Total	1987-05	10-1987	146	25.70 06-27	148	0	0.00	0.00	0.00	0.00	0.00	0.00	568.87	925.92	784.10	763.69	507.16	49.98	3603.72	AF
1988	Total	1988-05	10-1988	171	36.40 07-20	171	0	0.00	0.00	0.00	0.00	0.00	0.00	806.09	1327.18	1716.72	873.51	297.72	109.79	5131.02	AF
1989	Total	1989-05	10-1989	159	43.90 07-15	161	0	0.00	0.00	0.00	0.00	0.00	0.00	1301.22	907.55	1755.54	1108.34	405.61	87.04	5565.28	AF
1990	Total	1990-04	10-1990	169	37.10 06-23	172	0	0.00	0.00	0.00	0.00	0.00	157.09	925.32	1500.86	1925.50	1290.07	549.25	188.33	6536.43	AF
1991	Total	1991-05	10-1991	143	37.90 07-22	145	0	0.00	0.00	0.00	0.00	0.00	0.00	454.02	754.11	1362.59	1313.08	929.71	42.49	4855.99	AF
1992	Total	1992-04	10-1992	162	48.61 06-16	163	0	0.00	0.00	0.00	0.00	0.00	41.79	994.86	1165.88	1459.70	964.99	450.83	74.38	5152.44	AF
1993	Total	1993-05	09-1993	147	27.30 05-16	149	0	0.00	0.00	0.00	0.00	0.00	0.00	1019.34	885.43	1036.38	1112.35	528.94	0.00	4582.44	AF
1994	Total	1994-05	10-1994	141	34.90 07-10	142	0	0.00	0.00	0.00	0.00	0.00	0.00	418.48	1469.67	1467.89	979.45	961.50	193.45	5490.45	AF
1995	Total	1995-06	10-1995	98	31.30 09-12	99	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.59	878.71	1346.08	836.74	35.07	3146.19	AF
1996	Total	1996-05	09-1996	140	36.50 08-21	141	0	0.00	0.00	0.00	0.00	0.00	0.00	938.57	1007.22	1194.66	1489.61	610.92	0.00	5240.98	AF
1997	Total	1997-04	09-1997	155	30.96 09-06	156	0	0.00	0.00	0.00	0.00	0.00	57.34	746.25	730.48	1147.57	916.75	953.47	0.00	4551.88	AF
1998	Total	1998-05	10-1998	158	50.00 05-05	159	0	0.00	0.00	0.00	0.00	0.00	0.00	892.52	1124.47	1403.31	959.40	907.21	122.68	5409.58	AF
1999	Total	1999-05	09-1999	134	39.27 07-26	136	0	0.00	0.00	0.00	0.00	0.00	0.00	245.32	724.24	1880.81	1206.44	572.04	0.00	4628.85	AF
2000	Total	2000-04	09-2000	174	51.20 06-17	175	0	0.00	0.00	0.00	0.00	0.00	574.32	1237.49	2006.73	1682.37	917.09	696.03	0.00	7094.03	AF
2001	Total	2001-05	10-2001	148	38.49 07-14	149	0	0.00	0.00	0.00	0.00	0.00	0.00	753.23	1535.49	1790.39	1143.09	774.22	9.70	6006.12	AF
2002	Total	2002-04	09-2002	117	34.17 06-07	120	0	0.00	0.00	0.00	0.00	0.00	85.49	1225.68	1744.71	735.20	73.01	355.80	0.00	4219.90	AF
2003	Total	2003-03	10-2003	197	39.90 08-04	199	0	0.00	0.00	0.00	0.00	178.20	214.87	630.36	1119.88	1811.13	1192.28	758.63	307.74	6213.10	AF
2004	Total	2004-04	10-2004	165	37.50 06-16	166	0	0.00	0.00	0.00	0.00	0.00	84.62	1078.23	1380.52	1179.98	837.75	640.67	11.01	5212.78	AF
2005	Total	2005-04	10-2005	168	36.50 08-05	169	0	0.00	0.00	0.00	0.00	0.00	10.26	659.08	979.45	1911.90	1280.75	565.12	117.90	5524.44	AF
2006	Total	2006-04	09-2006	153	44.30 06-03	154	0	0.00	0.00	0.00	0.00	0.00	67.38	1129.60	1886.90	1519.96	816.01	338.37	0.00	5758.22	AF
2007	Total	2007-05	09-2007	146	44.90 07-03	147	0	0.00	0.00	0.00	0.00	0.00	0.00	591.08	1572.52	2171.34	1048.48	605.92	0.00	5989.34	AF
2008	Total	2008-04	10-2008	157	38.10 07-24	158	0	0.00	0.00	0.00	0.00	0.00	7.54	703.47	951.29	1838.51	1247.62	751.55	38.00	5537.97	AF
2009	Total	2009-04	10-2009	153	34.70 07-29	155	0	0.00	0.00	0.00	0.00	0.00	16.07	525.43	806.69	1685.78	911.02	485.01	14.18	4444.17	AF
2010	Total	2010-05	10-2010	158	28.20 07-15	159	0	0.00	0.00	0.00	0.00	0.00	0.00	209.06	631.94	1244.65	939.19	387.68	47.17	3459.68	AF
2011	Total	2011-04	10-2011	177	32.50 08-14	178	0	0.00	0.00	0.00	0.00	0.00	144.40	407.59	836.44	842.59	1629.84	882.14	205.85	4948.85	AF

Legend for identifier string coding:

Source (S): 1 - Natural Streamflow, 2 - Reservoir Storage, 3 - Ground water (wells), 4 - Transbasin, 5 - Non-stream (springs, run-off), 6 - Combined, 7 - Transdistrict, 8 - Re-used, 9 - Multiple, R - Remeasured and rediverted
From (F): From structure W/DID
Use (U): 0 - Storage, 1 - Irrigation, 2 - Municipal, 3 - Commercial, 4 - Industrial, 5 - Recreation, 6 - Fishery, 7 - Fire, 8 - Domestic, 9 - Stock, A - Augmentation, B - Export from basin, C - Cumulative accretion to river,
D - Cumulative depletion from river, E - Evaporation, F - Federal reserve, G - Geothermal, H - Household use only, K - Snow making, M - Minimum streamflow, N - Net effect of river, P - Power generation, Q - Other, R - Recharge,
S - Export from state, T - Transmountain export, W - Wildlife, X - All beneficial use
Division Type (T): 0 - Administrative record only, 1 - Exchange, 2 - Trade, 3 - Carrier, 4 - Alternate point of diversion, 5 - Re-used, 6 - Replacement to river, 7 - Released by river, 8 - Released to stream, A - Augmented, G - Geothermal,
S - Reservoir substitution
Group (G): Group structure W/DID

Appendix F

**Financial Statements for 2010-2012,
2013 Budget, and
Schedule of Revenue & Expenditures**

1:27 PM
03/20/13
Accrual Basis

Boulder and Left Hand Irrigation Company
Balance Sheet
As of December 31, 2010

	Dec 31, 10
ASSETS	
Current Assets	
Checking/Savings	
Checking	18,530.14
Money Market Account	
Restrict Loan Payment	7,196.21
Money Market Account - Other	4.53
Total Money Market Account	7,200.74
Total Checking/Savings	25,730.88
Accounts Receivable	
Accounts Receivable	1,245.66
Total Accounts Receivable	1,245.66
Other Current Assets	
Prepaid Payroll Taxes	38.29
Total Other Current Assets	38.29
Total Current Assets	27,014.83
Fixed Assets	
Fixed Assets	
Depreciable Assets	20,322.00
Twin Lakes Concrete Flume	9,160.00
Accumulated Depreciation	-21,801.00
Total Fixed Assets	7,681.00
Total Fixed Assets	7,681.00
TOTAL ASSETS	34,695.83
LIABILITIES & EQUITY	
Liabilities	
Long Term Liabilities	
CWCB Long Term Loan	63,900.86
Total Long Term Liabilities	63,900.86
Total Liabilities	63,900.86
Equity	
Common Stock	6,800.00
Retained Earnings	-44,438.04
Net Income	8,433.01
Total Equity	-29,205.03
TOTAL LIABILITIES & EQUITY	34,695.83

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03/20/13

Accrual Basis

Boulder and Left Hand Irrigation Company
Profit & Loss
 January through December 2010

	Jan - Dec 10
Ordinary Income/Expense	
Income	
Operating Stock Assessments	46,568.66
Sp'l Cap' Improvem'ts Assm't	13,305.33
Sp'l Debt Service Stock Assm't	7,210.82
Carrying Charge	300.00
Crossing Fees	3,500.00
Lake Lease	3,000.00
Maintenance Agreement	1,000.00
Reimbursed Expenses	9,842.64
Distributions	72.10
General Dividend	180.00
Total Income	84,979.55
Gross Profit	84,979.55
Expense	
Depreciation Expense	1,079.00
Dues, Subscriptions & Membershi	
DARCA Membership	100.00
District 6 Water Assessment	637.20
Total Dues, Subscriptions & Membershi	737.20
Big T Carry-over Assessment	326.20
Filing Fees	20.00
Hayden Lake Filling	300.00
Insurance	
Unemployment Insurance Tax	163.09
Directors & Officers Liability	1,418.00
Liability Insurance	2,465.00
Work Comp	1,017.00
Total Insurance	5,063.09
Interest Expense	2,569.77
N. Bldr. Farmers Assessment	6,966.00
Office Rent & Telephone	183.32
Office Supplies	19.70
Payroll Expenses	
Superintendent Salary	7,200.00
Secretary Salary	2,500.00
Labor Salaries	7,761.87
Total Payroll Expenses	17,461.87
Payroll Taxes	
Company FICA	1,113.66
Company Medicare	260.48
Total Payroll Taxes	1,374.14
Postage and Delivery	211.20
Printing and Reproduction	111.59
Professional Fees	
Crossing Review Fee	1,000.00
Engineering Fees	6,945.80
Accounting	475.00
Legal Fees	3,346.54
Total Professional Fees	11,767.34
Repairs and Cleaning	
Cleaning	20,773.00
Headgate Repairs	1,716.67
Tree Removal	600.00
Total Repairs and Cleaning	23,089.67
Supplies	89.27
Meeting Expenses	67.41
Vehicle Expense	5,220.72

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Accrual Basis

Boulder and Left Hand Irrigation Company
Profit & Loss
January through December 2010

	Jan - Dec 10
Total Expense	76,657.49
Net Ordinary Income	8,322.06
Other Income/Expense	
Other Income	
Interest Income	
Interest on Assm'ts & Carry Chg	99.35
Interest Income - Other	11.60
Total Interest Income	110.95
Total Other Income	110.95
Net Other Income	110.95
Net Income	8,433.01

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Accrual Basis

Boulder and Left Hand Irrigation Company
Balance Sheet
As of December 31, 2011

	<u>Dec 31, 11</u>
ASSETS	
Current Assets	
Checking/Savings	
Checking	15,960.37
Money Market Account	
Spl. Cap. Improvements Assmt	6,812.33
Restrict Loan Payment	7,196.21
Money Market Account - Other	<u>6,826.42</u>
Total Money Market Account	<u>20,834.96</u>
Total Checking/Savings	<u>36,795.33</u>
Total Current Assets	36,795.33
Fixed Assets	
Fixed Assets	
Depreciable Assets	20,322.00
Twin Lakes Concrete Flume	9,160.00
Accumulated Depreciation	<u>-22,850.00</u>
Total Fixed Assets	<u>6,632.00</u>
Total Fixed Assets	<u>6,632.00</u>
TOTAL ASSETS	<u>43,427.33</u>
LIABILITIES & EQUITY	
Liabilities	
Long Term Liabilities	
CWCB Long Term Loan	<u>59,100.93</u>
Total Long Term Liabilities	<u>59,100.93</u>
Total Liabilities	59,100.93
Equity	
Common Stock	6,800.00
Retained Earnings	-36,005.03
Net Income	<u>13,531.43</u>
Total Equity	<u>-15,673.60</u>
TOTAL LIABILITIES & EQUITY	<u>43,427.33</u>

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Accrual Basis

Boulder and Left Hand Irrigation Company
Profit & Loss
January through December 2011

	Jan - Dec 11
Ordinary Income/Expense	
Income	
Operating Stock Assessments	46,568.66
Sp'l Cap' Improvem'ts Assm't	13,605.33
Sp'l Debt Service Stock Assm't	7,210.82
Carrying Charge	300.00
Lake Lease	5,800.00
Maintenance Agreement	1,000.00
Stock Transfer Fees	
less - Secretary Fee	-100.00
Stock Transfer Fees - Other	100.00
Total Stock Transfer Fees	0.00
Refunds	38.28
Reimbursed Expenses	16,471.06
General Dividend	184.00
Total Income	91,178.15
Gross Profit	91,178.15
Expense	
Depreciation Expense	1,049.00
Gifts	30.00
Dues, Subscriptions & Membershi	
DARCA Membership	100.00
District 6 Water Assessment	605.92
Total Dues, Subscriptions & Membershi	705.92
Filing Fees	20.00
Fuel	135.00
Hayden Lake Filling	300.00
Insurance	
Unemployment Insurance Tax	56.51
Directors & Officers Liability	1,438.00
Liability Insurance	2,860.00
Work Comp	998.00
Total Insurance	5,352.51
Interest Expense	2,396.28
N. Bldr. Farmers Assessment	6,966.00
Office Rent & Telephone	385.25
Office Supplies	37.07
Payroll Expenses	
Superintendent Salary	6,700.00
Secretary Salary	2,500.00
Labor Salaries	10,359.71
Payroll Expenses - Other	0.00
Total Payroll Expenses	19,559.71
Payroll Service Fees	4.65
Payroll Taxes	
Company FICA	1,212.71
Company Medicare	283.61
Total Payroll Taxes	1,496.32
Postage and Delivery	206.43
Printing and Reproduction	33.46
Professional Fees	
Crossing Review Fee	21.66
Engineering Fees	4,851.25
Accounting	475.00
Legal Fees	6,824.07
Total Professional Fees	12,171.98
Rented Water	2,800.00
Repairs and Cleaning	

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Accrual Basis

Boulder and Left Hand Irrigation Company
Profit & Loss
January through December 2011

	<u>Jan - Dec 11</u>
Cleaning	17,692.00
Headgate Repairs	625.32
Tree Removal	250.00
Equipment Repairs	76.44
Total Repairs and Cleaning	<u>18,643.76</u>
Supplies	142.62
Meeting Expenses	94.39
Vehicle Expense	5,175.72
Total Expense	<u>77,706.07</u>
Net Ordinary Income	13,472.08
Other Income/Expense	
Other Income	
Interest Income	
Interest on Assm'ts & Carry Chg	30.46
Interest Income - Other	28.89
Total Interest Income	<u>59.35</u>
Total Other Income	<u>59.35</u>
Net Other Income	<u>59.35</u>
Net Income	<u><u>13,531.43</u></u>

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Accrual Basis

Boulder and Left Hand Irrigation Company
Balance Sheet
As of December 31, 2012

	<u>Dec 31, 12</u>
ASSETS	
Current Assets	
Checking/Savings	
Checking	15,843.24
Money Market Account	
Spl. Cap. Improvements Assmt	6,812.33
Restrict Loan Payment	7,196.21
Money Market Account - Other	6,857.69
Total Money Market Account	<u>20,866.23</u>
Total Checking/Savings	36,709.47
Other Current Assets	
Due from FICA-Payroll Tx Ovrpay	490.76
Total Other Current Assets	<u>490.76</u>
Total Current Assets	37,200.23
Fixed Assets	
Fixed Assets	
Depreciable Assets	20,322.00
Twin Lakes Concrete Flume	9,160.00
Accumulated Depreciation	<u>-23,899.00</u>
Total Fixed Assets	<u>5,583.00</u>
Total Fixed Assets	<u>5,583.00</u>
TOTAL ASSETS	<u><u>42,783.23</u></u>
LIABILITIES & EQUITY	
Liabilities	
Long Term Liabilities	
CWCB Long Term Loan	54,121.00
Total Long Term Liabilities	<u>54,121.00</u>
Total Liabilities	54,121.00
Equity	
Common Stock	6,800.00
Retained Earnings	-22,473.60
Net Income	4,335.83
Total Equity	<u>-11,337.77</u>
TOTAL LIABILITIES & EQUITY	<u><u>42,783.23</u></u>

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Accrual Basis

Boulder and Left Hand Irrigation Company

Profit & Loss

January through December 2012

	Jan - Dec 12
Ordinary Income/Expense	
Income	
Operating Stock Assessments	46,568.66
Sp'l Cap' Improvem'ts Assm't	13,105.33
Sp'l Debt Service Stock Assm't	7,475.82
Carrying Charge	300.00
Lake Lease	3,000.00
Maintenance Agreement	1,000.00
Stock Transfer Fees	
less - Secretary Fee	-150.00
Stock Transfer Fees - Other	150.00
Total Stock Transfer Fees	0.00
Reimbursed Expenses	7,066.63
Distributions	1,105.16
Big T Lease	3,500.00
General Dividend	158.00
Total Income	83,279.60
Gross Profit	83,279.60
Expense	
CBT Water Lease Fee	6,400.00
Depreciation Expense	1,049.00
Dues, Subscriptions & Membershi	
DARCA Membership	100.00
District 6 Water Assessment	840.20
Total Dues, Subscriptions & Membershi	940.20
Filing Fees	20.00
Hayden Lake Filling	300.00
Insurance	
Directors & Officers Liability	1,488.00
Liability Insurance	3,049.00
Work Comp	1,105.00
Total Insurance	5,642.00
Interest Expense	2,216.28
N. Bldr. Farmers Assessment	9,438.00
Office Rent & Telephone	385.50
Office Supplies	39.04
Payroll Expenses	
Superintendent Salary	11,000.00
Secretary Salary	2,500.00
Labor Salaries	13,385.79
Total Payroll Expenses	26,885.79
Payroll Service Fees	2.50
Payroll Taxes	
Company FICA	1,049.44
Company Medicare	245.45
Total Payroll Taxes	1,294.89
Postage and Delivery	148.02
Printing and Reproduction	126.77
Professional Fees	
Engineering Fees	1,947.08
Accounting	475.00
Legal Fees	195.00
Total Professional Fees	2,617.08
Repairs and Cleaning	
Cleaning	8,173.00
Headgate Repairs	768.33
Equipment Repairs	65.80
Repairs and Cleaning - Other	10,568.00

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Accrual Basis

Boulder and Left Hand Irrigation Company
Profit & Loss
January through December 2012

	<u>Jan - Dec 12</u>
Total Repairs and Cleaning	19,575.13
Supplies	834.68
Meeting Expenses	97.54
Vehicle Expense	962.62
Total Expense	<u>78,975.04</u>
Net Ordinary Income	4,304.56
Other Income/Expense	
Other Income	
Interest Income	31.27
Total Other Income	<u>31.27</u>
Net Other Income	<u>31.27</u>
Net Income	<u><u>4,335.83</u></u>

Boulder and Left Hand Budget

	Actual 2012	Budget 2013
Beginning Cash	\$ 36,795	\$ 36,709
INCOME		
Debt Service Stock Assessment	\$ 7,476	\$ 7,211
Operating Stock Assessment	\$ 46,569	\$ 46,569
Sp'l Cap' Improvem'ts Assm't	\$ 13,105	\$ 27,211
Carrying Charge	\$ 300	\$ 300
Lake Lease	\$ 3,000	\$ 3,000
Maintenance Agreement	\$ 1,000	\$ 1,000
Reimbursed Expenses	\$ 7,067	
General Dividend/Distributions	\$ 1,263	\$ 1,000
Interest Income	\$ 31	\$ 30
Big T Lease	\$ 3,500	
Total Income	<u>\$ 83,311</u>	<u>\$ 86,321</u>
Total Income and Beginning Cash	<u>\$ 120,106</u>	<u>\$ 123,030</u>
EXPENSES		
CBT Lease Fee	\$ 6,400	
North Boulder Farmers Assessment	\$ 9,438	\$ 9,500
Hayden Lake Filling	\$ 300	\$ 300
Dues, Subscriptions, Memberships	\$ 940	\$ 950
Filing Fees	\$ 20	
Insurance	\$ 5,642	\$ 5,700
Interest Expense & Principal Payment	\$ 7,196	\$ 7,196
Office Rent & Telephone	\$ 385	\$ 385
Office Supplies	\$ 39	\$ 50
Payroll Expenses	\$ 13,500	\$ 14,500
Postage and Delivery/Printing	\$ 275	\$ 275
Professional Fees	\$ 2,617	\$ 7,500
Repairs and Cleaning	\$ 33,002	\$ 35,000
Supplies	\$ 835	\$ 900
Payroll Taxes	\$ 1,297	\$ 121
Meeting Expense	\$ 98	\$ 100
Vehicle Expense	\$ 963	
Cash Out	<u>\$ 82,947</u>	<u>\$ 82,477</u>
Ending Cash	<u>\$ 36,709</u>	<u>\$ 40,553</u>
Increase A/R	\$ 450	
Cash Out and Ending Cash	<u>\$ 120,106</u>	<u>\$ 123,030</u>

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03/20/13

Accrual Basis

Boulder and Left Hand Irrigation Company
Balance Sheet
As of March 20, 2013

	<u>Mar 20, 13</u>
ASSETS	
Current Assets	
Checking/Savings	
Checking	64,265.20
Money Market Account	
Spl. Cap. Improvements Assmt	6,812.33
Restrict Loan Payment	7,196.21
Money Market Account - Other	6,862.75
Total Money Market Account	<u>20,871.29</u>
Total Checking/Savings	85,136.49
Accounts Receivable	
Accounts Receivable	19,994.50
Total Accounts Receivable	<u>19,994.50</u>
Total Current Assets	105,130.99
Fixed Assets	
Fixed Assets	
Depreciable Assets	20,322.00
Twin Lakes Concrete Flume	9,160.00
Accumulated Depreciation	-23,899.00
Total Fixed Assets	<u>5,583.00</u>
Total Fixed Assets	<u>5,583.00</u>
TOTAL ASSETS	<u><u>110,713.99</u></u>
LIABILITIES & EQUITY	
Liabilities	
Long Term Liabilities	
CWCB Long Term Loan	54,121.00
Total Long Term Liabilities	<u>54,121.00</u>
Total Liabilities	54,121.00
Equity	
Common Stock	6,800.00
Retained Earnings	-18,137.77
Net Income	67,930.76
Total Equity	<u>56,592.99</u>
TOTAL LIABILITIES & EQUITY	<u><u>110,713.99</u></u>

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Accrual Basis

Boulder and Left Hand Irrigation Company
Profit & Loss
January 1 through March 20, 2013

	<u>Jan 1 - Mar 20, 13</u>
Ordinary Income/Expense	
Income	
Operating Stock Assessments	46,568.66
Sp'l Cap' Improvem'ts Assm't	27,210.66
Sp'l Debt Service Stock Assm't	7,210.82
Carrying Charge	300.00
Refunds	55.11
Reimbursed Expenses	1,130.51
Total Income	<u>82,475.76</u>
Gross Profit	82,475.76
Expense	
Dues, Subscriptions & Membershi	
District 6 Water Assessment	779.40
Total Dues, Subscriptions & Membershi	<u>779.40</u>
Insurance	
Disability & D & O Insurance	4,700.00
Total Insurance	<u>4,700.00</u>
Office Rent & Telephone	192.81
Office Supplies	22.97
Payroll Expenses	
Superintendent Salary	2,000.00
Total Payroll Expenses	<u>2,000.00</u>
Postage and Delivery	50.53
Professional Fees	
Engineering Fees	1,130.51
Accounting	475.00
Legal Fees	348.50
Total Professional Fees	<u>1,954.01</u>
Repairs and Cleaning	
Cleaning	4,755.00
Total Repairs and Cleaning	<u>4,755.00</u>
Meeting Expenses	95.34
Total Expense	<u>14,550.06</u>
Net Ordinary Income	67,925.70
Other Income/Expense	
Other Income	
Interest Income	5.06
Total Other Income	<u>5.06</u>
Net Other Income	<u>5.06</u>
Net Income	<u><u>67,930.76</u></u>

Assumptions	
Total Project Cost	\$175,000
Inflation	3.0%
Interest on Reserves	3.0%

Financing				
Source	Share	Principal	Interest	Years
CWCB Loan	90%	\$159,075	2.35%	30
Spc. Assess	10%	\$17,500		

BOULDER AND LEFT HAND IRRIGATION COMPANY TRACY LATERAL PIPELINE AT THE WEDERQUIST "Y" SCHEDULE OF REVENUE AND EXPENDITURES

Annual Revenue

Year of Operation	Irrigation Assessment Oper. & Capital	Misc. Income	Debt Service Assessment	Total Revenue	Oper. & Capital Assessment Per Share	Operation, Maintenance, Repair, etc.	Existing Loan Reserve Accum.	New Loan Reserve Fund Annual	Accum.	Pay New CWCB Loan	Pay Existing CWCB Loan	Interest on Reserve Funds	Total Expenditures
1	\$60,262	\$10,000	\$15,390	\$85,652	\$443	\$70,500	\$7,196	\$745	\$745	\$7,449	\$7,196	\$238	\$85,652
2	\$62,054	10,300	\$15,390	87,744	\$456	72,615	7,196	\$745	1,490	\$7,449	\$7,196	\$261	87,744
3	\$63,902	10,609	\$15,390	89,901	\$470	74,793	7,196	\$745	2,235	\$7,449	\$7,196	\$283	89,901
4	\$65,805	10,927	\$15,390	92,122	\$484	77,037	7,196	\$745	2,980	\$7,449	\$7,196	\$305	92,122
5	\$67,766	11,255	\$15,390	94,411	\$498	79,348	7,196	\$745	3,725	\$7,449	\$7,196	\$328	94,411
6	\$69,786	11,593	\$15,390	96,769	\$513	81,729	7,196	\$745	4,470	\$7,449	\$7,196	\$350	96,769
7	\$71,868	11,941	\$15,390	99,198	\$528	84,181	7,196	\$745	5,215	\$7,449	\$7,196	\$372	99,198
8	\$74,229	12,299	\$8,194	94,721	\$546	86,706		\$745	5,960	\$7,449		\$179	94,721
9	\$76,438	12,668	\$8,194	97,300	\$562	89,307		\$745	6,705	\$7,449		\$201	97,300
10	\$78,715	13,048	\$8,194	99,957	\$579	91,987		\$745	7,450	\$7,449		\$224	99,957
11	\$81,083	13,439		101,972	\$596	94,746			7,450	\$7,449		\$224	101,972
12	\$83,523	13,842		104,814	\$614	97,588			7,450	\$7,449		\$224	104,814
13	\$86,035	14,258		107,742	\$632	100,516			7,450	\$7,449		\$224	107,742
14	\$88,623	14,685		110,757	\$651	103,532			7,450	\$7,449		\$224	110,757
15	\$91,288	15,126		113,863	\$671	106,638			7,450	\$7,449		\$224	113,863
16	\$94,034	15,580		117,062	\$691	109,837			7,450	\$7,449		\$224	117,062
17	\$96,861	16,047		120,357	\$712	113,132			7,450	\$7,449		\$224	120,357
18	\$99,774	16,528		123,751	\$733	116,526			7,450	\$7,449		\$224	123,751
19	\$102,774	17,024		127,247	\$755	120,022			7,450	\$7,449		\$224	127,247
20	\$105,864	17,535		130,848	\$778	123,622			7,450	\$7,449		\$224	130,848
21	\$109,046	18,061		134,556	\$801	127,331			7,450	\$7,449		\$224	134,556
22	\$112,324	18,603		138,376	\$826	131,151			7,450	\$7,449		\$224	138,376
23	\$115,701	19,161		142,311	\$850	135,085			7,450	\$7,449		\$224	142,311
24	\$119,178	19,736		146,363	\$876	139,138			7,450	\$7,449		\$224	146,363
25	\$122,761	20,328		150,537	\$902	143,312			7,450	\$7,449		\$224	150,537
26	\$126,450	20,938		154,837	\$929	147,611			7,450	\$7,449		\$224	154,837
27	\$130,250	21,566		159,265	\$957	152,040			7,450	\$7,449		\$224	159,265
28	\$134,164	22,213		163,826	\$986	156,601			7,450	\$7,449		\$224	163,826
29	\$138,196	22,879		168,524	\$1,016	161,299			7,450	\$7,449		\$224	168,524
30	\$142,349	23,566		173,363	\$1,046	166,138			7,450	\$7,449		\$224	173,363
Totals	\$2,871,102	\$475,754	\$281,292	\$3,628,148		\$3,354,067		\$7,450		\$223,470	\$50,372	\$7,210	\$3,628,148

Appendix G

Shareholder Annual Meeting Minutes

February 16, 2013
Longmont, Colorado

The regular annual meeting of the Stockholders of the Boulder and Left Hand Irrigation Company was held at 1:00 p.m. in the Boulder County Parks and Open Space Building, 5201 St. Vrain Road.

President John Brunner called the meeting to order. With those in attendance and returned proxies, 102.8833 of the 136.0533 (76%) shares of stock in the Company were represented which constituted a quorum.

Minutes from the last annual meeting held February 11, 2012 were reviewed and unanimously approved by motion and second after discussion of the trash rack that was installed at 21st Street in Boulder. The project was cost shared between various entities. Additionally, there was a discussion regarding the repairs to the river headgates at Broadway in Boulder, and comment that Bob Juhl replaced Boyd Sheets as Superintendent.

The 12/31/12 financial statements were reviewed. Highlights of the discussion regarded Hayden Lake and the difficulty of getting water through Boulder and White Rock ditch to Hayden. Hayden was in priority for filling only three days in 2012. Tightline Heaven has a recreation lease for Hayden, and the club loses recreation features and fish if water is released for irrigation at the end of the season. The recreation club leased some Big T Water from Left Hand Water District. As a result, the leased Big T Water replaced the Hayden water for irrigation purposes. Mr. Brunner reported that the water levels at Hayden are low at this time. There was also discussion regarding the increase in assessments from North Boulder Farmers Ditch. Bob Juhl is compensated as Superintendent on a fixed rate per month basis with no additional costs to the Ditch Company for mileage or vehicle expense. A motion was made to approve the financial statements as presented. The motion was seconded and passed unanimously.

The overall condition of the ditch is considered to be as good as it has been at any time in the recent past. Bob Juhl will submit projects to be addressed at an agreed upon amount of billing time so that his invoices would be within an acceptable amount. Mr. Brunner reported that a real estate development project at Pearl Street in Boulder involving the shared ditch with North Boulder Farmers includes apartments, a hotel, and other structures which will involve improving the headgates as well as an adjoining bike path that will eventually pass under the railroad tracks. A culvert under Niwot Road at 95th is a problem where the ditch crosses back under Niwot Road to the south. The culvert is leaking. Boulder County Transportation is working on the culvert and trying to locate the leaks. The pipe is made of flagstaff and has been in the road for quite some time.

In regard to the Wederquist Y piping project at 79th Street, north of Highway 52, the project was first reviewed in 2009 with the possibility of piping the ditch in that area. The Company has discussed financing the costs of the project with the Colorado Water

Conservation Board who indicates money is available. The Board of Directors is recommending the Company revisit this project. There has already been some preliminary design work. The project will require a dedicated easement through the Wederquist property; however, the easement and piping may need to be delayed for a period of time. A CWCB Resolution of the Shareholders approving financing with the CWCB will also be necessary. The loan will require, among other things, a feasibility study. The ditch splits at the Y going under 79th Street and then crosses back under 79th again. The area includes numerous trees and old concrete drop structures that are deteriorating. Access to the area is a problem and cleaning and maintenance difficult. The project would abandon that part of the ditch and replace it with the pipe that would go under 79th and include a new measuring device. Preliminary cost estimates are \$175,000. The Company will need to pay 10% of the costs. A \$128 per share assessment is necessary to raise the 10% of the estimated costs. The debt service assessment would be approximately \$61 per share on a 30 year loan if the loan is 90% of the estimated \$175,000 cost. A recommendation was made for a special assessment of \$200 for 2013 with part to apply to the 10% of the project costs and the balance for other capital improvements. It was pointed out that the pipeline would eliminate maintenance costs in this area in the future. Additionally, the existing concrete drop structures will eventually need to be replaced at some time in the future. The bottoms of the drop structures have deteriorated which creates a pooling of the water. Costs to repair drop structures would be considerable plus the Company would still have the issues with the trees and difficulty accessing the area to clean and maintain. A motion was made to levy a \$200 assessment for capital improvements and the pipe line project for 2013. The motion was seconded. Originally, the pipe was going to be concrete; however, plastic pipe will now be acceptable and is less expensive. The size of the pipe would be 36 inches and drop to 30 inches. 680 feet of pipe will be necessary and there will be a need for three manholes. There was a general discussion regarding Boulder Left Hand never being in priority in 2012 for direct flow from Boulder Creek. The water that was in the ditch represented the 20% ownership the Company has in stock of North Boulder Farmers Ditch Company and CBT water that had been leased by farmers. Some of the CBT leased water was made available to Boulder and Left Hand stockholders. Prospects for water in 2013, at this time, are not considered good. Mr. Brunner reported that there are no plans at this time for repairing or replacing other structure repairs. Maintenance in 2013 will involve normal cleaning. The Company will arrange for a permanent easement through the Wederquist property. The motion for a \$200 special assessment for 2013 was passed unanimously.

A Colorado Water Conservation Board Resolution of Shareholders was read into the minutes of the meeting. A motion was made to approve the Resolution. The motion was seconded and approved unanimously. A copy of the Resolution is attached to these minutes for reference.

A motion was also made to approve an operating assessment of \$350.00 per share for 2013. The motion was seconded and passed unanimously. Additionally, a motion was

made to approve the \$53.00 assessment per share to service the existing CWCB loan. This motion was seconded and passed unanimously.

Duane Myers Board term was open. Mr. Myers was nominated for another five year term. The nomination was seconded. With no other nominations, Mr. Myers was approved unanimously.

A request was made that minutes of the meeting be sent by email to shareholders.

With no further business appearing, the meeting adjourned.



Secretary

February 16, 2013
Longmont, Colorado

The Board of Directors of the Boulder and Left Hand Irrigation Company met immediately following the annual shareholders meeting. Directors attending were John Brunner; Ron Bernal; Duane Myers; Bob Distel; and Rich Koopmann.

President Bernal called the meeting to order.

The Colorado Water Conservation Board Resolution of the Board of Directors was read into the minutes. The resolution was unanimously approved by motion and second and a copy of the Resolution is attached to these minutes for reference.

A motion was made, seconded and approved unanimously to retain Officers of the Company. John Brunner will continue as President with Bob Distel, Vice President. Dan Grant will continue as Secretary and Treasurer.

With no further business appearing, the meeting adjourned.



Secretary

Appendix H

CWCB Water Project Loan Application

COLORADO WATER CONSERVATION BOARD

WATER PROJECT LOAN APPLICATION

Instructions: This application should be typed or printed neatly with black ink. Attach additional sheets as necessary to fully answer any question or to provide additional information that would be helpful in the evaluation of this application. When finished, please sign and return this application to:

THE COLORADO WATER CONSERVATION BOARD

Finance Section
1580 Logan St., Suite 600
Denver, CO 80203
Attn: Anna Mauss, P.E.
Phone (303) 866-3441 x3224 Fax (303) 894-2578
Email anna.mauss@state.co.us

Part A. - Description of the Applicant (Generally, the applicant is also the prospective owner and sponsor of the proposed project)

1. Name of applicant Boulder & Left Hand Irrigation Company

Mailing Address P.O. Box 1826

Longmont, CO 80502

Business Phone (303) 776-7207 Fax (303) 678-4170

Federal ID Number 84-0152875 email dan@dangrantbookeeping.com

2. Person to contact regarding this application:

Name Dan Grant

Position/Title Secretary-Treasurer

Address Same as above

Business Phone () _____ Cell () _____

Email

3. Type of organization (Ditch Co., Irrigation District, Municipality, etc.): Mutual Irrigation Co.

Date of Annual Meeting February (2/16/13)

Is the organization incorporated in the State of Colorado? YES x NO _____ (If YES, please include a copy of the articles of incorporation, and the bylaws) (See Feasibility Study)

CWCB Water Project Loan Application

4. Please provide a brief description of the owner's existing water supply facilities and describe any existing operational or maintenance problems. Attach a map of the service area

The Boulder and Left Hand Irrigation Company (the Irrigation Company) acquired the Boulder and Left Hand Ditch Company in March 1921. The Boulder and Left Hand Ditch Company had been operating the ditch system since approximately 1873.

The Irrigation Company shares a common diversion dam and head-gate with the Boulder and White Rock Ditch Company and North Boulder Farmers Ditch Company to divert water from Boulder Creek. The diversion dam, head-gate, and augmentation structure are located on the north bank of Boulder Creek near 12th and Broadway in Boulder, Colorado. The three companies share a common ditch for approximately two-thirds of a mile before the Boulder and White Rock Ditch separates from the Boulder and Left Hand and North Boulder Farmers Ditch at approximately 21st and Canyon in Boulder. The Boulder and Left Hand and North Boulder Farmers share a ditch for approximately 1.5 miles before they separate near the Foothills Parkway east of Boulder. The Boulder and Left Hand Ditch then generally flows in a northeasterly direction for approximately 14 miles before emptying into Dry Creek near U.S. 287 south of Longmont, Colorado. The Irrigation Company also owns and operates Twin Lakes (a.k.a. Davis Reservoir Nos. 1 and 2) in the Gunbarrel area north of Boulder and Hayden Reservoir in northeast Boulder. The Irrigation Company received a CWCB loan in 2000 for the outlet works and spillway improvements to Davis Reservoir No. 1.

The service area of the Irrigation Company includes approximately 2,000 acres of farm land in east central Boulder County as estimated in 2009. Irrigated crops consist of corn, alfalfa, small grains, pinto beans, beets, and pasture grasses. The service area extends from the Boulder city limits northeasterly approximately 14 miles to Dry Creek near U.S. Highway 287, south of Longmont.

For existing facilities indicate:

Number of shareholders 38 or Number of customers served _____

Current Assessment per share \$603 - 2013 Number of shares 136.0533

(\$350 Oper/\$72 Capital/\$53 Debt/\$128 Special)

Number of acres irrigated approx. 2000 ac Water Right: 97.349 CFS.

Average water diverted per year: 2869 acre-feet.

Part B. - Description of the Project

1. Name of the Project The Tracy Lateral Pipeline at the Wederquist "Y".
2. Purpose of this loan application. Check one.

_____ New project
XXXXXX Rehabilitation or replacement of existing facility
_____ Enlargement of existing facility
_____ Emergency Repair
_____ Other (describe) _____

CWCB Water Project Loan Application

3. If the project is for rehabilitation of an existing reservoir, is the reservoir currently under a storage restriction order from the State Engineer? YES ___ NO XXX
4. General location of the project. (Please include county, and approximate distance and direction from nearest town, as well as legal description, if known.)

The project is located approximately one half mile south of Niwot, Colorado on 79th Street in Boulder County.

5. Please provide a brief narrative description of the proposed project including purpose, need, facilities, type of water uses to be served and service area.

The purpose of the proposed project is to improve the Tracy Lateral of the Boulder and Left Hand Ditch, at the Wederquist "Y" diversion structure, by re-aligning the ditch flow-line and placing that portion of the existing open channel ditch into a 30-36 in. diameter pipe (25 cfs design flow). This will involve building a new diversion structure upstream of the existing Wederquist "Y" and eliminating approximately 1,500 feet of severe steep switch back angles currently existing in the ditch alignment. The new pipeline alignment will commence at the new diversion structure and end at the existing 79th Street culvert crossing. The purpose of the project is to improve the hydraulic efficiency of the ditch, enhance access to the ditch diversions, reduce maintenance costs and eliminate ditch water losses from large trees and other phreatophytes.

The Boulder and Left Hand Ditch ditch is checked at particular locations to raise the level of the water in the ditch to allow discharge through head-gates into lateral ditches or directly onto fields. Other control structures consist of dams and diversion structures that control the ditch and direct the flow to storage.

The ditch meanders several times on the east side of 79th Street, near Niwot, before it bifurcates at a check/drop structure (the Wederquist "Y" diversion) with the main ditch continuing east and the Tracy Lateral continuing to meander back to the north and west towards the 79th Street crossing. The sides and flowline of the Tracy Lateral are heavily lined by very large mature cottonwood trees and other deciduous trees and shrubs. The trees and shrubs make access to the ditch very difficult and create a debris problem in the ditch resulting in flow constraints and blockages in the ditch and at the 79th Street crossing. The trees and other phreatophytes along the ditch are also a source of severe water losses, especially during the last several years of drought.

The trees along the ditch create an appealing backdrop for the adjacent neighborhood of homes to the north and the homeowners do not want the trees removed for environmental and aesthetic reasons.

The "Y" diversion structure is located several hundred yards from the ditch access drive at 79th Street and is in poor condition, making the diversions to the Tracy Lateral difficult. The structure is operated using stop-logs for checks. By stopping diversions at this structure, and allowing the ditch to flow freely to the east, several long cleanout and maintenance/diversion trips to the structure by the ditch superintendent would be eliminated.

CWCB Water Project Loan Application

6. Will the acquisition of additional water rights be necessary? YES _____ NO XXXX

If YES, please explain. _____

7. Please list the names, addresses and phone numbers of the Applicants' engineer(s) and attorney(s).

NAME

ADDRESS and PHONE

Mark A. Severin, P.E. Deere & Ault Consultants, Inc., 600 So. Airport Rd., Bldg. A,
Suite 205, Longmont, CO 80503; 303-651-1468 ext. 4086

Scott Holwick Lyons, Gaddis, Kahn and Hall, P.C., P. O. Box 9900, Longmont,
CO; 303-776-9900

8. List any feasibility studies or other investigations that have been completed or are now in progress for the proposed project. If so, submit one copy of the study with this application

Feasibility of the Tracy Lateral Pipeline at the Wederquist Y, prepared by Serlet Project Consulting, LLC, dated June 2013.

9. Estimated cost of the project. Please include estimated engineering costs, and estimated construction costs, if known.

Estimated Engineering Costs: \$ \$30,000

Estimated Construction Costs: \$140,000

Estimated Other Costs: \$5,000 for right-of-way purchase (land, water rights purchase, etc.)

Estimated Total Costs: \$175,000

10. Loan amount and terms you are requesting.

Requested Loan Amount: \$159,075 including the 1% loan origination (Usually 90 % of est. Total Costs)

Term (length) of loan: 30 years (Usually 10, 20, or 30 years)

Interest Rate: 2.35% (Please call for our current rates)

Part C. - Project Sponsor Financial Information

Because the CWCB's Fund is a revolving fund, it is important that the project sponsor have the financial capacity to repay any loans made by the CWCB. The following information is needed to assist the CWCB in a preliminary assessment of the applicant's financial capacity. The project sponsor will submit the three most recent annual financial statements.

CWCB Water Project Loan Application

1. List any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. For example, bank loans, government agency loans, bond issues, accounts payable, etc. Include names and addresses of lenders, amounts, due dates and maturity dates.

<u>Lender Name & Address</u>	<u>Remaining Amount</u>	<u>Annual Payment</u>	<u>Maturity Date</u>
Colorado Water Conservation Board (Loan Contract No. C150009)	\$54,121.00	\$7,196.21	Sept. 1, 2021

2. Are any of the above liabilities now in default, or been in default at any time in the past?
YES ____ NO x. If YES, please give detailed explanation.
-
-

3. Please provide a brief narrative description of sources of funding, in addition to the CWCB, which have been explored for this project (Examples would be Banks, USDA Rural Development, NRCS, Colorado Water Resources and Power Development Authority, Colorado Division of Local Government, etc.).

None.

4. What collateral will you be offering for this loan? Possibilities include a pledge of revenues, the project itself, real estate, water rights. Proposed collateral is a pledge of assessment revenues backed by an assessment covenant, and the project itself. This is in accordance with CWCB Policy #5 for a private incorporated entity.

The above statements are true, to the best of my knowledge:

Signature of Applicant



Printed Name John Brunner

Title President

Date

