

Logan River Watershed Plan-EIS Solutions and Benefits

Crockett Ave. Irrigation Canal Company



After extensive discussion, analysis, and comparison between evaluated alternatives, Cache Water District, Crockett Avenue Irrigation Company (CAIC), Logan City, North Logan City, and Hyde Park City, in concert with the Natural Resources Conservation Service (NRCS), have determined the First Dam Alternative would best meet their objectives. One of the objectives of this alternative is to build a new pressurized irrigation (secondary water) system that would service all current shareholders and landowners in the CAIC service area to achieve the benefits described in this document. Further information on the First Dam Alternative can be found in the Logan River Watershed Plan-EIS Project Overview Fact Sheet.

Protects Water Rights

Since the irrigation system was constructed, land has been converted from agricultural to residential or commercial use in the service area, decreasing the total irrigated acreage served. Canal company water rights are at risk of curtailment if they are not put to beneficial use in the service area. The water historically used to irrigate this land is still needed as carrier water to make deliveries to currently irrigated land. If this water were to be reassigned by the State Engineer, significant impacts to current deliveries could be experienced. Water rights can be protected by putting them to beneficial use within the service area.

Replaces Aging Infrastructure

Currently, approximately \$325,000 is spent annually on operations and maintenance by all the CAIC canal companies. Capital improvements on the 100+ year old system are needed. Without this project, the immediate infrastructure improvements include reconstruction of the Crockett Diversion Dam and enclosure of the canal along Canyon Road between 200 East and 500 East. Construction of these improvements is estimated to cost between \$5.0 - \$5.5 Million.

Without this project, ongoing capital improvements to the canal system will be required over the next 50+ years to continue to safely and reliably deliver water to shareholders in a changing environment. Based on discussions with board members, this is anticipated to include enclosure of the main canals (except the Little Logan) and turnouts.

Crockett Irrigation System Estimated Expenses without NRCS Funding Assistance

Category	Current O&M	Capital Improv.	Future Capital Improv.	Total Projected Costs
Total Cost*	n/a	\$5.0-\$5.5 Million	\$20-\$25 Million	\$25-\$31 Million
Annual Cost*	\$325,000	\$225,000-\$250,000	\$50,000-\$60,000	\$600,000-\$640,000

**Note that these estimates do not take into account other potential grant sources that could be applied for, but cost match could be much less than the NRCS PL-566 funding program.*

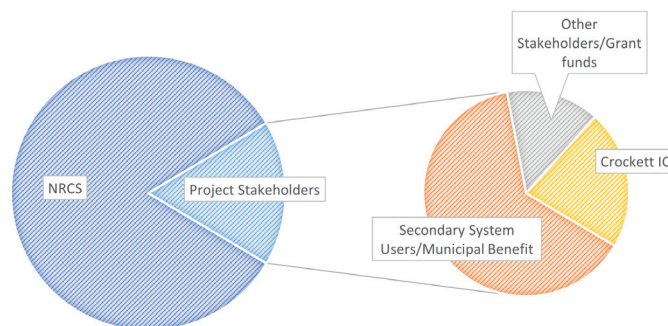
Reduces Costs

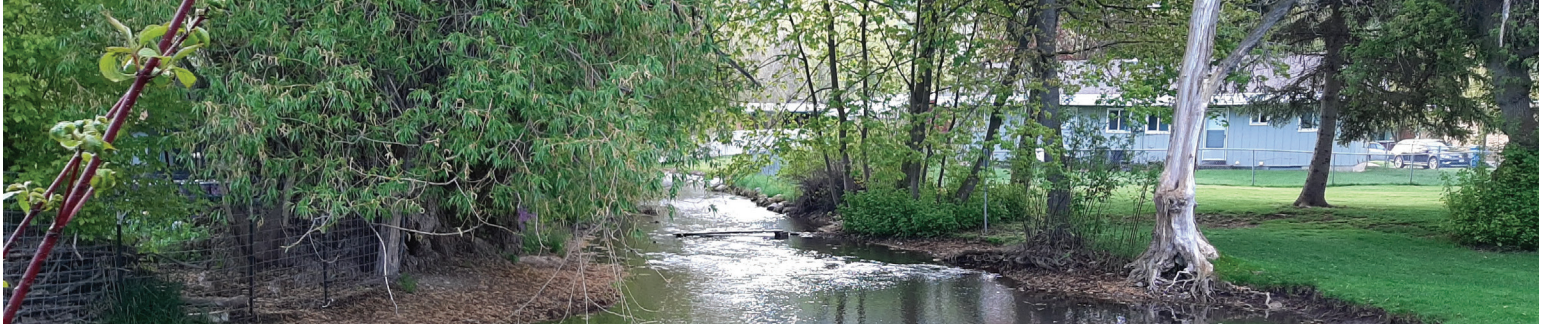
The estimated Crockett Ave. Irrigation Company annual payment without the project is estimated to be \$600,000-\$640,000 as shown above, which includes operation and maintenance costs, as well as loan repayment for capital improvements. The estimated CAIC annual payment with the project is between \$520,000-\$580,000 annually, which also includes operation and maintenance costs as well as loan repayment for project construction costs.

Federal Funding

The NRCS WFPO Program can pay for 100% of the design and engineering work and up to 75% of the construction costs of a pressurized irrigation system. The remaining costs would be shared between project stakeholders, including CAIC, secondary system users, additional grant/stakeholder contributions, and Logan City, North Logan City, and Hyde Park City on an as-needed basis.

CONCEPT STAKEHOLDER COST SHARE





Late Season Water Security

2,100 acre-feet of water stored by the project can provide increased flows later in the irrigation season when river flows drop (approximately 10% of average annual diversion and enough to supply an additional 12 cfs per day to the service area from July through September).

Flexibility

A pressurized turnout to all shareholders would reduce individual pumping costs when water is applied with sprinklers but can still be used to flood irrigate where desired.

Convenience

The pressurized system could allow a reduction and even potentially a removal of “turn” based watering and provide a more “on-demand” system.

Increases Revenue

Providing irrigation water to non-shareholders in the service area can generate additional revenue to offset the project repayment and/or operational costs not covered by the NRCS funding and other grants.

Typically Asked Questions

Q: What about my extra water shares? Can I be compensated for those?

A: Water share management will be handled by each individual irrigation company. Extra water shares could be leased to provide water to users that are non-shareholders or sold to provide water to others served by the system. With a system that enables water accounting and provides more efficient delivery, the water value will be greater than in a gravity system.

Q: How much will my share assessment increase?

A: The exact amount will vary by canal company but could be estimated by comparing the current O&M budget with the two proposed budget estimates included above.

Q: When will my water assessment increase?

A: Assessments may begin to increase after the EIS is complete to begin to save funds for the project. Doing so will help save for a down payment for any loans required for the project.

