



Council may take formal action on any item appearing on this Agenda. However, formal action WILL NOT be taken at this meeting on any item of business first identified during the course of the meeting as a change to the Agenda, other business, or Citizen, Councilmember and Staff Comments.

A G E N D A

**Delta City Council
Regular Meeting**

**April 19, 2016
7:00 p.m.**

- A. Pledge of Allegiance**
- B. Oath of Office:**
 - **Councilmembers Ronald Austin, Gerald Roberts and Christopher Ryan**
 - **City Manager David Torgler**
 - **City Attorney David McConaughy**
- C. Election of Mayor and Mayor Pro Tem**
- D. City Council Board & Committee Appointments**
- E. Minutes**
- F. Citizen Comments**
- G. Public Hearing: Special Event Permit; Delta County Young Life**
- H. River Restoration Contract**
- I. Ordinance #4, 2016; First Reading
Rezone of West Winds**
- J. Weed Abatement Agreement**
- K. Arbor Day Proclamation**
- L. City Attorney Comments**
- M. City Manager Comments**
- N. Councilmember Comments**

Item A:

Pledge of Allegiance



OATH OF OFFICE

STATE OF COLORADO)
COUNTY OF DELTA)
CITY OF DELTA)

I, Ronald G. Austin, do solemnly swear/affirm, that I will support the Constitution of the United States and of the State of Colorado, the ordinances and Charter of the City of Delta, and faithfully perform the duties of the office of Councilmember, District A, upon which I am about to enter.

Signature

**Subscribed and sworn to before me this ____ day of ____,
20__.**

My Commission expires _____.

Notary Public

OATH OF OFFICE

STATE OF COLORADO)
COUNTY OF DELTA)
CITY OF DELTA)

I, Gerald E. Roberts, do solemnly swear/affirm, that I will support the Constitution of the United States and of the State of Colorado, the ordinances and Charter of the City of Delta, and faithfully perform the duties of the office of Councilmember, District B, upon which I am about to enter.

Signature

**Subscribed and sworn to before me this ____ day of ____,
20__.**

My Commission expires _____.

Notary Public

OATH OF OFFICE

STATE OF COLORADO)
COUNTY OF DELTA)
CITY OF DELTA)

I, Christopher Ryan, do solemnly swear/affirm, that I will support the Constitution of the United States and of the State of Colorado, the ordinances and Charter of the City of Delta, and faithfully perform the duties of the office of Councilmember, At Large, upon which I am about to enter.

Signature

**Subscribed and sworn to before me this ____ day of ____,
20__.**

My Commission expires _____.

Notary Public

OATH OF OFFICE

STATE OF COLORADO)
COUNTY OF DELTA)
CITY OF DELTA)

I, David Torgler, do solemnly swear/affirm, that I will support the Constitution of the United States and of the State of Colorado, the ordinances and Charter of the City of Delta, and faithfully perform the duties of the office of City Manager, upon which I am about to enter.

Signature

**Subscribed and sworn to before me this ____ day of ____,
20__.**

My Commission expires _____.

Notary Public

OATH OF OFFICE

STATE OF COLORADO)
COUNTY OF DELTA)
CITY OF DELTA)

I, David McConaughy, do solemnly swear/affirm, that I will support the Constitution of the United States and of the State of Colorado, the ordinances and Charter of the City of Delta, and faithfully perform the duties of the office of City Attorney, upon which I am about to enter.

Signature

**Subscribed and sworn to before me this ____ day of ____,
20__.**

My Commission expires _____.

Notary Public

Item #:

- _____ U . U h u



MEMO

To: City Council, City Manager
From: Jolene E. Nelson, City Clerk
Date: April 19, 2016
Subject: Council Board and Committee Appointments



Office of the City Clerk

The following appointments were previously made to provide Council representation to the various Boards and Committees:

Boards and Committees	Meeting times	Current Delegate/ Alternate	2016/2017 Delegate	2016/2017 Alternate
Board of County Commissioners	1 st & 3 rd Monday, 8:30am	David Torgler/ Ray Penick	_____	_____
Club 20	TBA	Mary Cooper	_____	_____
Delta Area Chamber of Commerce	2 nd Thursday monthly, 7:00am	Ed Sisson	_____	_____
Delta Area Planning Committee		Glen Black	_____	_____
Delta County Economic Development	2 nd Thursday monthly	Glen Black/ Mary Cooper	_____	_____
Delta County Housing Task Force	quarterly, 2 nd Thursday, 9:00am	Bill Raley	_____	_____
Delta Housing Authority Board	4 th Wednesday monthly, 3:00pm	Robert Jurca	_____	_____
Juvenile Diversion	twice annually	Bill Raley	_____	_____
Municipal Quarterly	TBA	Ray Penick/ Ed Sisson	_____	_____
Project 7	4 th Thursday monthly, 4:30pm	Steve Glammeyer/ Mary Cooper	_____	_____
Region 10	4 th Thursday monthly, 12:00pm	Bill Raley/ David Torgler	_____	_____

Mayor Ed Sisson called the meeting to order at 7:00 p.m. Also present were Councilmembers Bill Raley, Robert Jurca, Mary Cooper, and Ray Penick along with City Manager David Torgler. A meeting notice was posted in the south window at City Hall at least twenty-four hours prior to the meeting.

Pledge of Allegiance

The Mayor led everyone present in the Pledge of Allegiance.

Changes to the Agenda

There were none.

Minutes

Councilmember Ray Penick stated that there is an extra sentence under Ordinance #3, 2016 that need to be deleted.

It was moved by Councilmember Jurca and seconded by Councilmember Penick to approve the minutes of the March 15, 2016 regular meeting with the corrections as stated. All in favor, motion carried.

Citizen Comments

Dennis Phillips, 1906 1600 Road, commented the Devil's Thumb Golf Course regarding the tax that was voted on in November of 2014. He also commented on the candidates for City Council and their position on the golf course.

Tim Jantz, 1741 Lynkx Street, thanked the outgoing Councilmembers for their service on City Council.

Recognition of Councilmembers Cooper, Jurca and Penick

Mayor Sisson presented Councilmembers Cooper, Jurca and Penick with plaques and thanked them for their service on City Council.

Appointment of Planning Commission Members

City Manager David Torgler reported that there are two openings with the Planning Commission. Staff advertised for the openings and received two applicants, Mary Lynn Williams and Virginia Alexander.

It was moved by Councilmember Penick and seconded by Councilmember Jurca to reappoint Mary Lynn Williams and appoint Virginia Alexander to the Planning Commission. All in favor, motion carried.

Regular Meeting, Delta City Council, April 5, 2016 (cont.)

Public Hearing: Major Street Plan

The Mayor recessed the regular meeting and convened a public hearing. He then called for public comment and there was none. He closed the public hearing and reconvened the regular meeting.

Community Development Director Glen Black stated that the update on the Major Street Plan follows the access control plan that was presented and approved at a previous meeting.

Councilmember Penick questioned if there are any changes.

Mr. Black stated that this brings the major street plan up to date with the access control plan.

Councilmember Cooper stated that it's her understanding that adopting this plan will help anyone that is going into development.

Mr. Black agreed that a comprehensive plan helps with future development.

Resolution #3, 2016; Major Street Plan

Resolution #3, 2016

A RESOLUTION OF THE CITY OF DELTA, COLOARDO, ADOPTING THE
MAJOR STREET PLAN UPDATE 2016

was read by the Clerk.

It was moved by Councilmember Penick and seconded by Councilmember Raley to adopt Resolution #3, 2016. Roll call vote: Councilmembers Cooper, aye; Jurca, aye; Raley, aye; Penick, aye and Sisson, aye. Motion carried.

Three Mile Plan

Director Black reported that approving the three mile plan is required by state statute if any annexations are to be considered by the City. He stated that the only change was with Source Gas changing to Black Hills Energy.

The Planning Commission reviewed the Three Mile Plan and is recommending approval.

It was moved by Councilmember Cooper and seconded by Councilmember Raley to adopt the Three Mile Plan as presented. All in favor, motion carried.

Upper White Ranch Lease

Utilities Director Steve Glammeyer reported that this is the annual lease with Rolph Sandburg and Dan Long for the grazing on the Upper White Ranch Lease. There are no changes to the lease.

Councilmember Penick questioned if the fencing has been maintained as required.

Regular Meeting, Delta City Council, April 5, 2016 (cont.)

Upper White Ranch Lease (cont.)

Mr. Glammeyer stated that they are in compliance.

It was moved by Councilmember Jurca and seconded by Councilmember Penick to approve the Upper White Ranch Lease. All in favor, motion carried.

Approval of the REDI Grant Contract

Community Development Director Glen Black stated that the City has been working with Region 10, Delta County Economic Development and consultants Better City on several economic development studies. One feasibility study is looking at creating a Gateway project for the City including development and improvements of the Gunnison River. The City has applied for and been awarded a REDI Grant for \$100,000 to hire an engineering firm to create preliminary engineering plans along a two mile stretch of the Gunnison River that will help activate the river corridor as a recreational asset and attract private investment along the riverfront and adjacent acreage. The match is all in kind through staff time and mapping. Currently, staff has received one proposal.

Manager Torgler thanked Mr. Black for getting everyone together and getting this project started.

It was moved by Councilmember Cooper and seconded by Councilmember Jurca to approve the contract for the REDI Grant with the Department of Local Affairs and authorize the Mayor to sign said contract. All in favor, motion carried.

Approval of the Memorandum of Understanding with the Interpretive Association of Western Colorado

City Manager David Torgler stated that City Council previously discussed a Memorandum of Understanding back in December of 2014 with the Interpretive Association of Western Colorado for the operation of Fort Uncompaghere. The agreement has been drafted to meet the insurance requirements; the city code and it outlines the responsibilities of both parties.

It was moved by Councilmember Raley and seconded by Councilmember Penick to approve the Memorandum of Understanding with the Interpretive Association of Western Colorado. All in favor, motion carried.

City Attorney Comments

There were none.

City Manager Comments

Manager Torgler stated that the City Attorney will be providing an orientation for the City Council on May 3rd, 2016. Mr. Torgler stated that he has been doing some outreach to various organizations within the City.

Regular Meeting, Delta City Council, April 5, 2016 (cont.)

City Manager Comments (cont.)

He requested Wilma Erven to provide an update on Confluence Park.

Ms. Erven presented the update on Confluence Park stating that the new docks were put in at the lake and they are working on filling the lake. She stated that a celebration for the 25th anniversary of the park will be held July 2nd.

Councilmember Comments

Councilmember Cooper commented on her time with the City and thanked all those she was worked with.

Councilmember Raley stated that it has been a pleasure working with Mary Cooper, Ray Penick and Robert Jurca.

Councilmember Jurca encouraged anyone to get involved. He commented on his experience as a Councilmember.

Councilmember Penick also commented on his experience as a Councilmember.

Mayor Sisson thanked Mary Cooper, Ray Penick and Robert Jurca.

The meeting was adjourned at 7:42 p.m.

Jolene E. Nelson, CMC, City Clerk

Item 7:

Citizen Comments



MEMO

To: Mayor and City Council
From: Jolene E. Nelson, City Clerk
Date: April 19, 2016
Subject: Special Events Permits; Delta County Young Life



Office of the City Clerk

Recommendation:

Staff recommends approving an application for a Special Events Liquor Permit submitted by the Delta County Young Life.

Background:

Delta County Young Life has submitted an application for Special Events Liquor Permits for their event to be held at Bill Heddles Recreation Center on April 23, 2016. The application specifies that they plan to sell alcoholic beverages from 8:00 a.m. to 10:00 p.m. The application is complete and the fees, \$35 to the City has been paid.

A sign was posted at the site to receive public comment and one objection has been received. As per the Delta Municipal Code 5.10.070, “whenever such an objection is received, the Clerk shall set the application for hearing before the City Council...”. The submitted objection is attached.

Cost:

There is no cost to the City.

Alignment With Strategic Planning:

Per Delta Municipal Code 5.10.010 “the Delta City Council is hereby designated the local licensing authority for the purposes of exercising the duties and powers provided for in the Colorado Beer Code and the Colorado Liquor Code.”

Actions To Be Taken if Approved:

The Mayor and Clerk will sign the application, and the Clerk will issue a license if approved.

APPLICATION FOR A SPECIAL EVENTS PERMIT

Department Use Only

IN ORDER TO QUALIFY FOR A SPECIAL EVENTS PERMIT, YOU MUST BE NONPROFIT AND ONE OF THE FOLLOWING (See back for details.)

- | | | |
|------------------------------------|--|--|
| <input type="checkbox"/> SOCIAL | <input type="checkbox"/> ATHLETIC | <input type="checkbox"/> PHILANTHROPIC INSTITUTION |
| <input type="checkbox"/> FRATERNAL | <input type="checkbox"/> CHARTERED BRANCH, LODGE OR CHAPTER | <input type="checkbox"/> POLITICAL CANDIDATE |
| <input type="checkbox"/> PATRIOTIC | <input type="checkbox"/> OF A NATIONAL ORGANIZATION OR SOCIETY | <input type="checkbox"/> MUNICIPALITY OWNING ARTS FACILITIES |
| <input type="checkbox"/> POLITICAL | <input checked="" type="checkbox"/> RELIGIOUS INSTITUTION | |

LIAB TYPE OF SPECIAL EVENT APPLICANT IS APPLYING FOR:	DO NOT WRITE IN THIS SPACE
2110 <input checked="" type="checkbox"/> MALT, VINOUS AND SPIRITUOUS LIQUOR \$25.00 PER DAY	LIQUOR PERMIT NUMBER
2170 <input type="checkbox"/> FERMENTED MALT BEVERAGE (3.2 Beer) \$10.00 PER DAY	

1. NAME OF APPLICANT ORGANIZATION OR POLITICAL CANDIDATE Delta County Young Life	State Sales Tax Number (Required) 98-00607
--	--

2. MAILING ADDRESS OF ORGANIZATION OR POLITICAL CANDIDATE (include street, city/town and ZIP) 1009 13th St. Delta, CO 81416	3. ADDRESS OF PLACE TO HAVE SPECIAL EVENT (include street, city/town and ZIP) 530 Gunnison River Dr. Delta, CO 81416
---	--

NAME	DATE OF BIRTH	HOME ADDRESS (Street, City, State, ZIP)	PHONE NUMBER
4. PRES./SEC'Y OF ORG. or POLITICAL CANDIDATE Tyson Gallenbeck		1736 Pioneer Cir. Delta CO 81416	9702165680
5. EVENT MANAGER Tyson Gallenbeck		1736 Pioneer Cir. Delta CO 81416	9702165680

6. HAS APPLICANT ORGANIZATION OR POLITICAL CANDIDATE BEEN ISSUED A SPECIAL EVENT PERMIT THIS CALENDAR YEAR? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES HOW MANY DAYS? _____	7. IS PREMISES NOW LICENSED UNDER STATE LIQUOR OR BEER CODE? <input type="checkbox"/> NO <input type="checkbox"/> YES TO WHOM? _____
---	---

8. DOES THE APPLICANT HAVE POSSESSION OR WRITTEN PERMISSION FOR THE USE OF THE PREMISES TO BE LICENSED? Yes No

LIST BELOW THE EXACT DATE(S) FOR WHICH APPLICATION IS BEING MADE FOR PERMIT

Date	Hours	From	To
4/23/20165	8:00a	.m.	10:00p

OATH OF APPLICANT

I declare under penalty of perjury in the second degree that I have read the foregoing application and all attachments thereto, and that all information therein is true, correct, and complete to the best of my knowledge.

SIGNATURE 	TITLE Area Director	DATE 3/21/2016
---------------	-------------------------------	--------------------------

REPORT AND APPROVAL OF LOCAL LICENSING AUTHORITY (CITY OR COUNTY)

The foregoing application has been examined and the premises, business conducted and character of the applicant is satisfactory, and we do report that such permit, if granted, will comply with the provisions of Title 12, Article 48, C.R.S., as amended.

THEREFORE, THIS APPLICATION IS APPROVED.

LOCAL LICENSING AUTHORITY (CITY OR COUNTY)	<input type="checkbox"/> CITY <input type="checkbox"/> COUNTY	TELEPHONE NUMBER OF CITY/COUNTY CLERK
SIGNATURE	TITLE	DATE

DO NOT WRITE IN THIS SPACE - FOR DEPARTMENT OF REVENUE USE ONLY

LIABILITY INFORMATION			
License Account Number	Liability Date	State	TOTAL
		-750 (999)	\$

4-8-2016

To whom it may concern:

Regarding Young Lives Application
For a liquor license;

It is a truly bad idea to grant a liquor license to a group who is supposed to be setting a good example for our youth to follow. They are sending mixed messages, on the one hand they tell the kids don't drink and don't do drugs. Then they want to sell Alcohol to the parents for a few money. Alcohol, like tobacco, are gateway Drugs and far more insidious because they are accepted behavior. Yet are just as bad for our youth as illicit drugs. Remember Monkey see, Monkey do. So lets not miss the point. Don't make it about the money. Make it about the kids and just say no. No to Young Lives Application for a liquor ~~license~~ license. Thank you for your time and I trust you will make the right decision,

Sincerely,

Zenn Penn

(970) ~~877~~ 433-9717

Received 4/8/16

MEMO

To: City Council
From: Glen L. Black *GLB*
Date: April 19, 2016
Subject: River Restoration Contract



Community Development

Recommendation: Council authorize the Mayor to execute the contract documents and give Notice to Proceed to River Restoration for the Delta Gateway Riverfront Planning and Engineering Project.

Background: The City working with Region 10 and DCED has engaged consultants Better City on several economic development studies. One feasibility study is looking at creating a Gateway project for the City including development and improvements of the Gunnison River. The City has applied for and been awarded a REDI Grant for \$100,000 to hire an engineering firm to create preliminary engineering plans along a 2 mile stretch of the Gunnison River that will help activate the river corridor as a recreational asset and attract private investment along the riverfront and adjacent acreage. We have received one proposal from River Restoration, a firm located in Carbondale Colorado.

Cost: The proposal bid is \$99,962 which is within our budget of \$100,000.

Alignment With Strategic Planning: The City Comprehensive Plan on page 8-8 and 8-12 discusses a connective trail system from Confluence Park to the Cottonwood Park area, which is the area of the project. The trails are also shown on the Master Trail Plan Map on page 8-25.

Actions To Be Taken if Approved: Staff will prepare contract documents for the Mayor's signature and give River Restoration a Notice to Proceed.

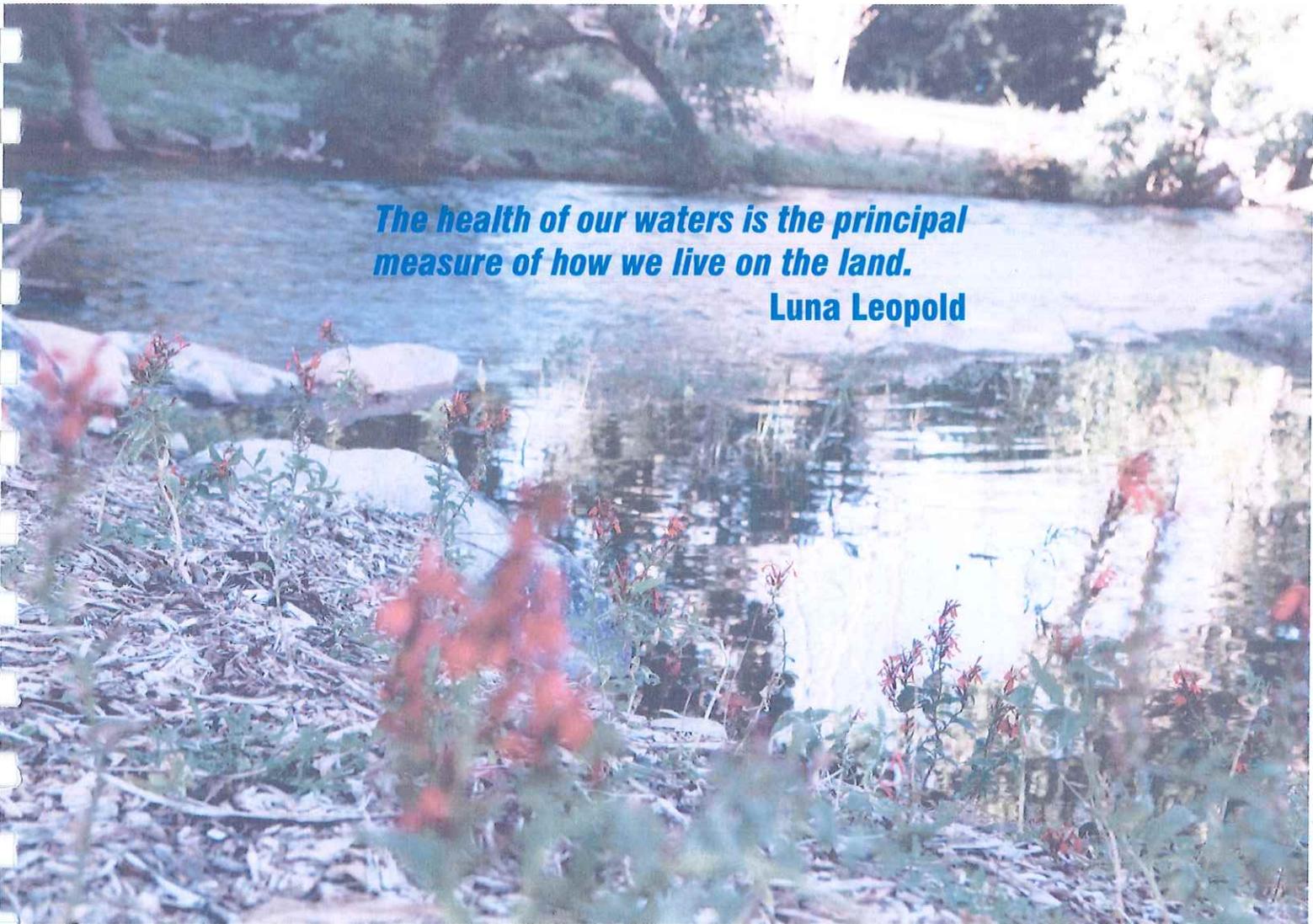
**Proposal for:
Gunnison River Corridor Preliminary Planning and Engineering
for the City of Delta**



Gunnison River Delta, CO

Contact:
Jason Carey, P.E.
Principal River Engineer
PO Box 248
Carbondale, CO 81623
office: (970) 947-9568
email: jason.carey@riverrestoration.org





***The health of our waters is the principal
measure of how we live on the land.***

Luna Leopold

Ogden River Restoration Stormwater Return Wetland

April 5, 2016

Glen Black
Director of Community Development
City of Delta
360 Main Street
Delta, Colorado 81416
970.874.7566

Re: Response to the City of Delta Request for Proposals for River Corridor Preliminary Planning and Engineering

Dear Mr. Black,

We are pleased to submit our proposal in response to the River Corridor Preliminary Planning and Engineering RFP for the City of Delta. RiverRestoration is a full service firm and can efficiently and effectively provide all of the needed services in-house, including hydrographic survey, wetland delineation, hydraulic modeling, design, plans, permit documentation, public and stakeholder involvement, and fundraising assistance. We have a staff of eight full time employees and are fully prepared to meet the City's schedule and have the scoped work complete prior to the June 27th grant deadline.

RiverRestoration has years of experience developing innovative designs for river enhancement projects. From our office on the western slope, we have successfully completed river projects throughout Colorado and the country. Our firm takes a river-centric approach and all projects are designed "from the river, out". The needs of the river, including ecological, environmental, geomorphic, and hydraulic concerns are balanced with the needs of the community to create a high functioning, sustainable project the City can be proud of. RiverRestoration has a highly technical staff and adopts a rigorous approach to project development, utilizing advanced hydraulic modeling software and methodology as the basis for comprehensive design. We are experts at producing permit documentation, floodplain analysis reports, and quality construction documents that will communicate the project clearly to stakeholders, funders, and regulators. RiverRestoration knows what it takes to get work done in the river corridor and will guide the City of Delta through the process. We look forward to the opportunity to work with the City to revitalize the Gunnison River Corridor, making it a space that will provide recreational and environmental benefits to the Gunnison and social and educational benefits to the City of Delta, it's residents, and it's visitors.

Sincerely,



Jason Carey
Principal River Engineer
RiverRestoration
970.947.9568
jason.carey@riverrestoration.org



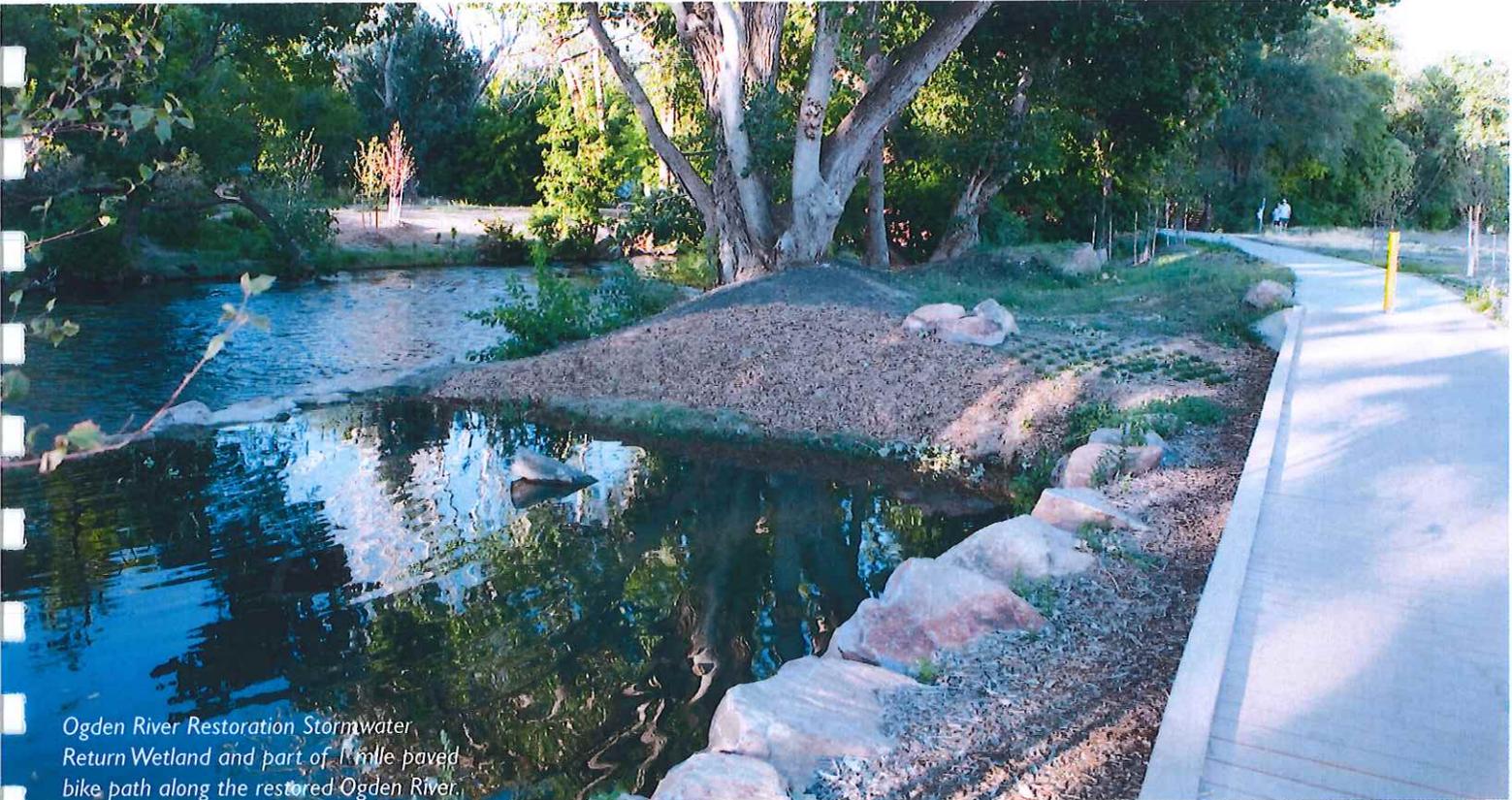
Quinn Donnelly
Project Manager
RiverRestoration
970.947.9568
quinn.donnelly@riverrestoration.org

Task	Description	Principal Engineer	Project Manager/Engineer	Hydraulic Scientist/PhD	Wetland Scientist	Engineer Field / EIT	Landscape Designer	Hydrographic Survey Crew	Total Hours	Total Budget by Task
1.0	Project Management and Correspondence	9	20						29	\$4,250
	Attend Kickoff Meeting	6	6						12	\$1,821
	Project Management	2	10						12	\$1,711
	Monthly Progress Report and Invoice	1	4						5	\$718
2.0	Hydrographic Field Assessment	1	18	40	20	8	24		103	\$13,708
	Data Review and Background Research		2			12			12	\$2,874
	Site visit and Assessment		2							\$4,636
	Wetland Delineation and Report		2	40						\$5,110
	Hydrographic Survey of Project Reach	1	2				24			
3.0	Conceptual (30%) Design	20	38	16	20	68	18		180	\$21,447
	Meet with City staff and Key Stakeholders (x2)	4	6				6			\$2,099
	Coordination with state and federal agencies	2	2	8						\$1,479
	Coordinate and Host Public Meeting in Delta	4	4				8			\$2,026
	Develop Conceptual (30%) Plans	8	24	16	12	60	4			\$14,424
	Develop Conceptual (30%) Engineers Opinion of Cost	2	2			8				\$1,419
4.0	Hydrology and Hydraulics	4	10	78		72			164	\$19,022
	Hydrologic Analysis and Technical Memo		1	6						\$882
	Existing Conditions Models (1D and 2D)	2	2	40		16				\$2,754
	Proposed Conditions Models (1D and 2D)	2	2	40		40				\$9,627
	Hydraulic Design Report	2	6	24		16				\$5,759
5.0	Preliminary (60%) Design	11	38	16	13	68	28		174	\$20,210
	Coordination with City Staff and Key Stakeholders	6	6				6			\$2,430
	Develop Preliminary (60%) Plans	4	30	16	12	60	20		142	\$16,214
	Develop Preliminary (60%) Engineers Opinion of Cost	1	2		1	8	2		14	\$1,566
6.0	Permitting, Fundraising and Coalition Building	20	32	20	60	8	20		160	\$19,588
	Coordination with state and federal regulatory agencies	2	2		8				12	\$1,479
	Prepare permit documents for submittal	4	16		24				44	\$5,486
	Perform floodplain analysis and write "no-rise" certification letter	10	6	20		8			44	\$5,775
	Assist City staff with developing fundraising strategy		4		16		8			\$2,556
	Assist City staff with "coalition building"		4		8		8			\$2,236
	Coordinate with City staff, stakeholders and public	4	4		4		4		16	\$2,056
	Total Hours	65	156	130	133	236	66	24	810	
	Billing Rate	\$165.50	\$138.00	\$124.00	\$109.00	\$101.50	\$101.50	\$194.50		
	Total Labor Cost	\$10,758	\$21,528	\$16,120	\$14,497	\$23,554	\$6,699	\$4,668		\$98,224
	Direct Expenses									\$1,188
	Mileage (@ \$0.55/mile)									\$550
	Survey Equipment									
	Consultant Total									\$99,962



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*Ogden River Restoration Stormwater
Return Wetland and part of 1/2 mile paved
bike path along the restored Ogden River.*

The following is a detailed breakdown of the work the project team will perform to complete the Project as presented in the RFP. For each task a list of sub-tasks, deliverables and assumptions is provided. An estimate of fees to accompany this scope is included in a separate, sealed envelope as directed in the RFP. The project team understands the fiscal constraints of the project and would be happy to negotiate the scope items and associated fees to meet the City of Delta's needs.

Task 1.0 – Project Management and Correspondence

Description – The purpose of this task is to provide project management and project coordination. Effective project management and regular communication with City staff will be critical to the success of the project, and keeping the Project Team and City staff moving towards the overall goals of the Project. Tasks will include the following:

- Attend a project kickoff meeting in the City of Delta.
- Maintain a project schedule and notify the City Project Manager of potential schedule changes.
- Provide monthly invoice and progress to the City of Delta project manager.

Deliverables:

- Meeting agendas in PDF format prior to each meeting.
- Monthly progress report and invoice in PDF format to City of Delta.

Assumptions:

- None



On-site coordination with regulatory agency representatives in Grand Rapids, Michigan

Task 2.0 - Hydrographic Field Assessment

Description – The purpose of this task is to visit the site and document existing conditions and identify any hydraulic constraints that may affect the project design. Items that will be assessed and documented will include:

- Perform a wetland delineation of the project reach. The wetland delineation will be accomplished per US Army Corps of Engineers (USACE) guidelines.
 - o Complete a wetland delineation report for later submittal to the USACE as part of the permitting process.
- Perform hydrographic survey of the project reach. The survey area will be from ordinary high water to ordinary high water within the project reach. In addition to general mapping of the river channel, the survey will include:
 - o FEMA cross sections
 - o Downstream boundary/grade control conditions.
 - o US 50 bridge crossing details.
 - o Upstream conditions to identify any structures or property that may be impacted by changes in hydraulics through the project reach.
- Perform up to four pebble counts to characterize the grain size distribution of the channel bed through the project reach.
- Photograph bed and bank conditions upstream and downstream of the project for the purposes of estimating channel and overbank roughness to be used in the modeling effort.



Topo and hydrographic survey on the Rio Grande in New Mexico for the U.S. Bureau of Reclamation

Deliverables

- Wetland delineation report in PDF format.
- Base map of project reach in 22x34 PDF format.

Assumptions

- The survey will be performed with survey grade GPS equipment.
- Boundary survey will not be performed. City or County will provide GIS property boundary layers for use in the base map.
- The timing of NTP will be such that the wetland delineation and hydrographic survey may occur prior to the increase in river flow associate with spring runoff.
- Only cross sections will be surveyed in overbank areas. Detailed topographic survey will not be performed. If available, the City will provide existing survey or LiDAR data for these areas.

Task 3.0 – Conceptual (30%) Design

Description – The purpose of this task is to develop a conceptual design for the project reach that balances recreation and public access with long term ecological and geomorphological needs and benefits. The conceptual design will incorporate input from City staff, stakeholders, regulatory agencies and the public. To accomplish this task, RiverRestoration will perform the following:

- Meet with City staff and key stakeholders on site to discuss project goals and constraints and possible project approaches.
- Prepare for and host one (1) webinar/teleconference meeting with City staff and key stakeholders to discuss project development and details.
- Coordinate with state and federal agencies about the project to establish clear line of communication with the regulators early in the project development process.
- Coordinate and host one (1) public meeting in the City of Delta to inform the public about the project and to garner support.
- Develop a conceptual plan based on the site assessment and input from stakeholders and the public. The conceptual design will consider:
 - o Ecological and environmental benefits such as in-channel and riparian habitat creation and fish passage.
 - o Impacts to existing wetlands in the project reach.
 - o Hydraulic/geomorphic considerations such as flood impacts, sediment transport, and bank stability.
 - o Opportunities to adjust flood hazard mapping.
 - o Socioeconomic and recreational benefits such as river access, fishing opportunities, and boat passage.
 - o Properties within the project reach that are suspected of soil contamination.
 - o Construction costs associated with the conceptual design.
- Draft Conceptual (30%) plans for the project. Submit the plans to City staff and key stakeholders for feedback.
- Develop Engineer's Opinion of Cost for the 30% design. Opinion of cost will include a quantity takeoff based on the conceptual plan and unit costs from recent project of similar size and scope in the region.

Deliverables

- Conceptual (30%) level plans in 11x17 PDF format.
- Conceptual (30%) level engineer's opinion of cost.
- Notes from stakeholder meeting(s).
- Notes from Public meeting.

Assumptions

- City and/or County provides locations of known or suspected soil contamination/ no additional soil sampling will be conducted.
- For in-person and on site meetings, City is responsible for venue, scheduling and inviting necessary attendees.

Task 4.0 – Hydrology and Hydraulics

Description – The purpose of this task is to perform a detailed hydrologic and hydraulic analysis of the project reach to support the design configuration from a hydraulics/geomorphic perspective. To accomplish this task, the project team will perform the following:

- Perform a hydrologic analysis of the project reach. Summarize hydrologic inputs to the project reach from current FEMA model for high flows and available gauge data (USGS Gauge #09144250 Gunnison River at Delta, CO) for lower flow conditions.

- o Write a short memo to document this analysis and summarize the target flow rates that will be used in the hydraulic analysis.

- Using the hydrographic survey and target flow rates, create detailed 1D and 2D “existing conditions” models of the project reach to use as baselines and calibrations for the proposed design.
- Develop 1D and 2D models of the project reach under proposed conditions. The two models will be used for different aspects of the hydraulic design.

- o 1D will be used primarily for the overall design, sediment transport modeling and to evaluate the floodplain impacts of the proposed changes.

- o 2D will be used primarily for detailed design of habitat and recreational features.

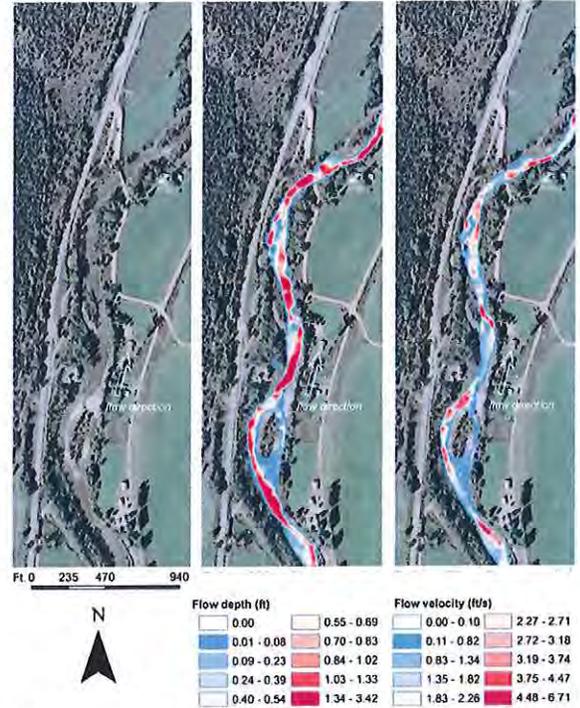
- Use the hydraulic models, details from the site assessment and sediment transport information available from previous Gunnison River studies to estimate incoming sediment transporting into the project reach and the transport capabilities of the project reach.
- Document the findings of the hydrologic, hydraulic and sediment transport analysis effort in a Hydraulic Design report.

Deliverables

- Hydrologic analysis technical memo in PDF format.
- Hydraulic design report in PDF format.

Assumptions

- City staff and key stakeholders will provide approval of the target flow rates prior to the hydraulic modeling beginning.
- The hydraulic design will be performed in conjunction with Tasks 3 and 5 through an iterative process as the design progresses.



Flow depth and velocity results from 2-D simulations; Crystal River, CO

Task 5.0 – Preliminary (60%) Design

Description – The purpose of this task is to take stakeholder and public feedback from the conceptual design and results of the hydraulic modeling effort and continue to develop the design to a preliminary (60%) design phase to be used for permitting and budgeting purposes. To accomplish this task, the project team will perform the following:

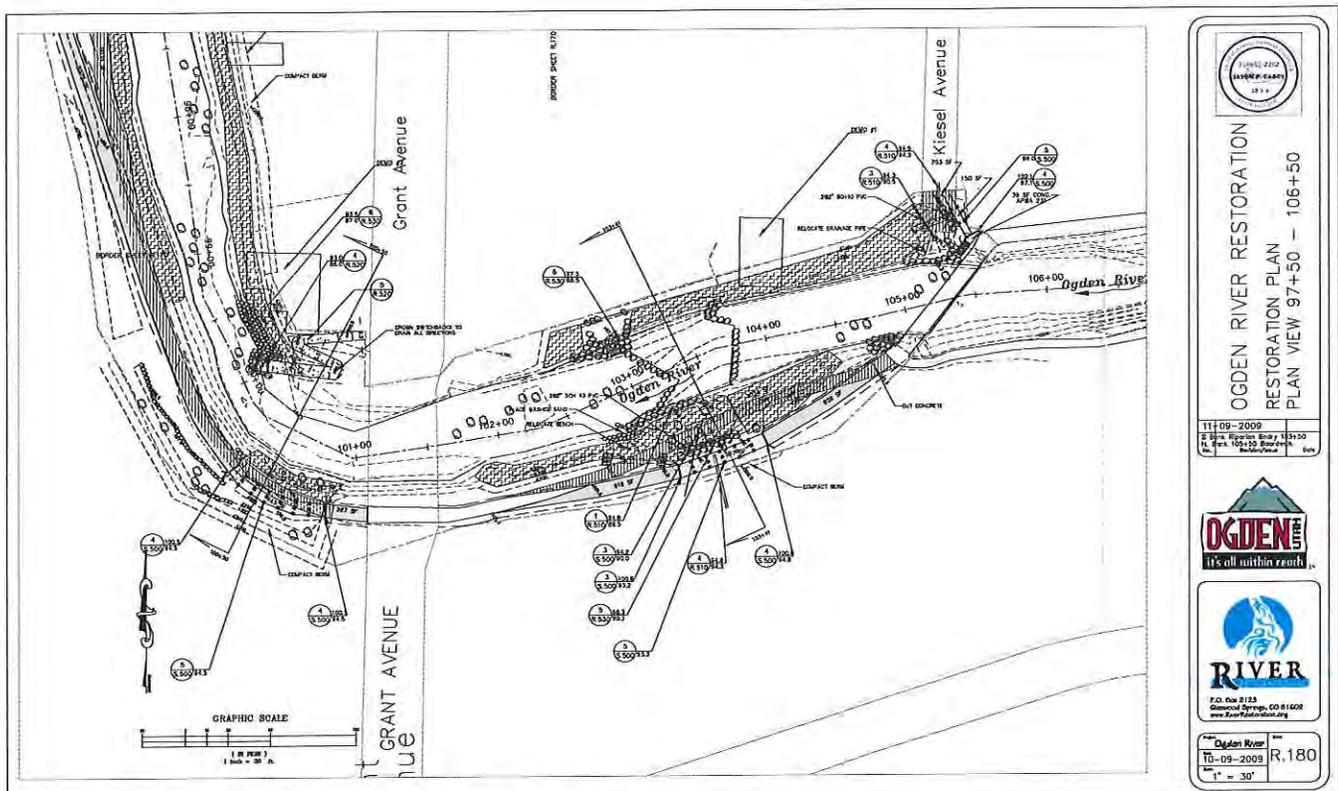
- Coordinate with City staff and stakeholders on project details.
 - o Meet with City staff and key stakeholders in Delta for a project update meeting.
- Develop a preliminary (60%) design that incorporates feedback from the conceptual design, the hydraulic modeling and effort and guidance from City staff, key stakeholders and regulators. The preliminary design will build on the conceptual design and will include:
 - o Habitat enhancement areas, both in channel and in the riparian corridor.
 - o Recreational enhancements, including river access and “organic” (i.e. natural material) in-channel recreational features.
 - o Native riparian landscape plans and soil/planting specifications.
 - o River bank rehabilitation / stabilization measures.
 - o Floodplain boundaries and potential flood hazard remapping.

Deliverables

- Summary of notes and recommendations from meetings and coordination with City staff and key stakeholders
- Preliminary (60%) Design plans in 11x17 PDF format.
- Preliminary (60%) Engineers Opinion of Cost in PDF format.

Assumptions

- For in-person and on site meetings, City is responsible for venue, scheduling and inviting necessary attendees.



Task 6.0 – Permitting, Fundraising and Coalition Building

Description – The purpose of this task is to prepare the project for the permitting process and to help City staff establish a plan for the successful completion of the project, including fundraising, and public support. To accomplish this task, the project team will perform the following:

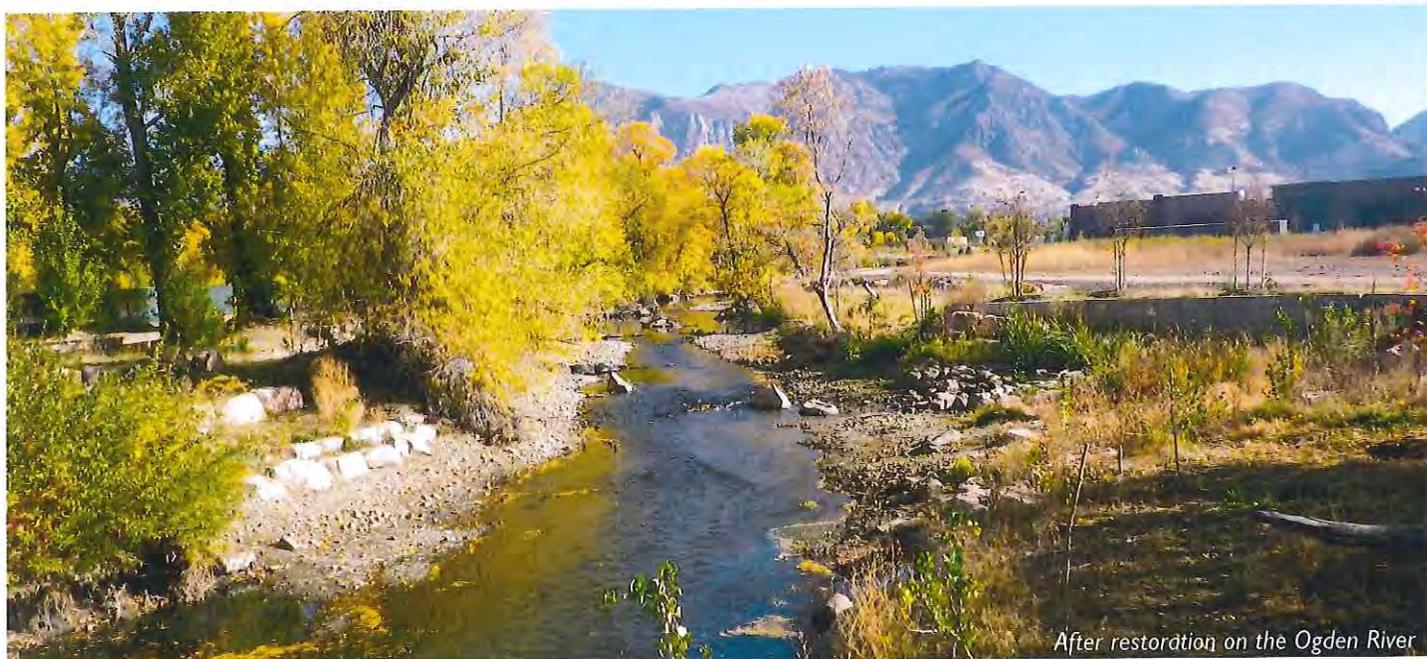
- Continue coordinating with state and federal regulatory agencies on project goals and details.
- Prepare documents and exhibits required for the US Army Corps of Engineers 404 Permit.
- Perform a floodplain analysis of the project proposed conditions using ID HEC-RAS and prepare required documentation for Delta County floodplain managers.
- Assist City staff with developing a fundraising strategy for success completion of the project.
 - o Provide assistance to City with filling out up to two (2) grant applications.
- Assist City staff with building a coalition of stakeholders that will be instrumental in carrying the project forward, building community support and identifying fundraising opportunities.
- Continue to solicit feedback from City staff, stakeholders and the general public.
 - o Options may include: additional open house/public meeting, website with comments section, articles in the Delta County Independent.

Deliverables

- Required documents for filing an application for the US Army Corps of Engineers 404 permit under Regional Permit 12 or a Nationwide Permit.
- Planning documents outlining a fundraising strategy for the project.
- Supporting documents for up to two (2) grant applications.

Assumptions

- City staff will take lead role in developing alternative forms of communicating project details to stakeholders and the public, including website, newspaper articles, advertising etc. The project team will be responsible for providing only providing technical information about the project to support these efforts.
- City staff will pay all fees associated and submit permit applications.
- Design selected by the City only requires a “No-rise” Certification letter per Delta County Flood Plain Regulations and a CLOMR/LOMR with FEMA are not required.



After restoration on the Ogden River

WORK PLAN TO MEET JUNE 27, 2016 DEADLINE



Gunnison River Corridor Preliminary Planning and Engineering TO BE COMPLETED BY JUNE 27, 2016 FOR THE CITY OF DELTA

Task	Dates	Deliverable	2016																					
			Spring			Summer																		
			M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	
Notice to Proceed	4/15																							
Kickoff Meeting	4/15	Meeting Notes																						
Data Review	4/18-4/19																							
Site evaluation	4/16																							
Wetland Delineation	4/20	Wetland Delineation Report																						
Hydrographic Survey	4/20-4/22	Base Map																						
Meet on site with City staff	4/26	Meeting Notes																						
Early coordination with Regulatory Agencies	4/25-4/29	Meeting Notes																						
Public Meeting in Delta	5/3																							
Develop Conceptual Plans	5/2-5/17	Conceptual (30%) Plans																						
Develop Conceptual Plans	5/2-5/17	Conceptual (30%) Engineers Opinion of Cost																						
Engineer's Opinion of Cost	5/16-5/17																							
City staff Review	5/18-5/25																							
Solicit Feedback from Stakeholders and Public	5/18-5/27																							
Hydrologic Analysis	4/18	Hydrology Tech Memo																						
Existing Conditions Hydraulic Modeling	4/25-4/29																							
Proposed Conditions Hydraulic Modeling	5/2-6/10	Hydraulic Design Report																						
Meet with City staff and key Stakeholders	6/1	Meeting Notes																						
Develop Preliminary Plans	6/2-6/17	Preliminary (60%) Plans																						
Develop Preliminary Engineers Opinion of Cost	6/16-6/17	Preliminary (60%) Engineers Opinion of Cost																						
City staff review	6/20-6/24																							
Solicit Feedback from Stakeholders and Public	6/20-6/24																							
Follow up coordination with state/federal regulatory agencies	6/6-6/10	Meeting Notes																						
Floodplain Analysis	6/14 - 6/17	No-rise Certification letter																						
Prepare Permit Documentation	6/13-6/24	Prepare Permit Documentation																						
Develop Fundraising Strategy	6/1-6/24	Fundraising Strategy Document																						
Assist City with Coalition Building	6/1-6/24																							
Meeting																								
Task begun																								
Task Submitted																								

Assuming the City and stakeholders are able to meet the review and feedback timeline presented in the proposed schedule, RiverRestoration is prepared and available to complete the work by June 27, 2016.

Jenny Curry

CONTACT INFORMATION AND FORM OF ORGANIZATION

RiverRestoration is a Colorado Limited Liability Company

Main office:

**818 Industry Place
Carbondale, CO 81623**

Branch office:

**2319 South Foothill Drive Suite 100
Salt Lake City, UT 84109**

Principal River Engineer:

**Jason Carey
970.947.9568x101
jason.carey@riverrestoration.org**

JASON CAREY, P.E. PRINCIPAL RIVER ENGINEER

KEY PERSONNEL



Jason Carey, P.E., Principal River Engineer of RiverRestoration, has more than eighteen years of experience in river planning and design. Jason is a leading innovator in the river engineering field, continually developing new solutions and higher function for our rivers. He has managed over 70 major river engineering projects. His insightful approach is based on natural channel function. Jason's experience encompasses analytical river restoration design, river recreation enhancement, and non-point source pollution prevention control. His skills include geomorphic assessments, wetlands restoration, river stability analysis, bio-stabilization, sediment transport analysis, floodplain determination, flood damage assessment, reservoir capacity analysis, dam break analysis, hydraulic design of structures in the river environment, design of fish and boat passage, design of irrigation canals, hydraulic bridge design, diversion structure design, design of habitat for specific fish species, and whitewater park design. Jason is also providing expert witness testimony for

recreational water rights in Colorado. Jason is currently registered as a Professional Engineer in Colorado and eight other states: including Utah, Michigan and California. Jason is Vice President of the River Management Society Southwest Chapter. He holds a Master of Science in Civil Engineering from the University of Utah and a Bachelor of Science in Physics from Fort Lewis College. Jason was born and raised in Colorado as an avid kayaker and angler.

QUINN DONNELLY, P.E. PROJECT MANAGER



Quinn Donnelly, P.E. is a water resources engineer with 10 years of experience working on a broad range of water resource projects. His expertise includes stormwater master planning, stream channel and bank rehabilitation, and watershed hydrology. Quinn has led or been involved in numerous community-wide stormwater and river planning studies and understands the technical aspects of developing the master plans and the importance of communication with local governments and the general public throughout the development process. His skills include hydrologic and hydraulic modeling in SWMM and HEC-RAS, designing and drafting in AutoCAD Civil 3D, and analyzing and mapping in ArcGIS. Prior to RiverRestoration, Quinn worked at Otak, Inc, a civil/water resource engineering firm headquartered in Portland, Oregon. He also spent a summer as a student hydrologic technician for the US Geological Survey in Fairbanks, Alaska. Prior to his engineering career, Quinn served as an aircraft maintenance officer in the U.S.

Air Force, serving in South Carolina, Germany and the Middle East. Quinn has a Bachelor's degree in Civil Engineering from the University of Virginia, a Master's degree in Civil Engineering with a Water Resources emphasis from the University of Washington, and a professional certification in River Restoration from Portland State University.



S. MICHAEL SCURLOCK Ph.D.
RIVER ENGINEER



Michael Scurlock, Ph.D, has been working in hydraulic river research for over seven years with a focus on engineering design guideline development for river-restoration structures. During his graduate education at Colorado State University, Dr. Scurlock worked at the hydraulics laboratory at the Engineering Research Center and served as a principal investigator on projects investigating hydraulic structures for river restoration applications. He developed extensive knowledge of in-stream structures and created design guidelines for rock-weirs, bendway weirs, spur dikes, and bank-attached vanes which have been published in peer-reviewed journals and conferences. His interests include natural river enhancement and restoration, numerical simulation of open-channel flow, hydraulic structure design, sediment transport, and geomorphic response.

SCOTT PRINS
RIVER ENGINEER



Scott Prins, E.I. has been working as a civil engineer for over 3 years and has experience in stream restoration and river mechanics, water management for large mining sites, and municipal planning and design. After obtaining a Bachelor of Science in Engineering Degree from Calvin College in Grand Rapids, MI, where he worked for the engineering department for the City of Wyoming, MI, Scott moved to Fort Collins, CO to study stream restoration at Colorado State University. He received a Masters of Engineering Degree in stream restoration and river mechanics and took a job as a hydraulic engineer for Knight Piesold and Co. in Denver, CO. Scott has been part of the RiverRestoration team for one year now where he has done extensive 1D and 2D hydraulic modeling in addition to planning and design and topographic surveying. His analytical and applied skills include: hydrologic and hydraulic surveying and modeling, floodplain analysis, sediment transport, riparian zone assessment, and CAD

drafting. He is particularly interested restoring natural function to degraded river systems as well as using his understanding of river mechanics to design recreational features that function properly in the river environment.

ERIC MCCULLEY
WATERSHED ECOLOGIST



Eric McCulley has been planning, implementing, and following up on numerous ecological restoration and wetland mitigation projects in Western North America for more than 12 years. His experience includes projects involving significant stream, river and wetland restoration of small and large sites across a broad range of habitat types. He has provided guidance to decision makers and their staff on optimizing use of project funds for maximum ecological and societal benefit.

He has completed projects related to restoring wildlife, stream, and wetland habitats; mapping of vegetation, hydrology, soils, and geomorphology; analysis of data on plants, water, and birds; monitoring for adaptive management of stream corridors, natural open spaces, ranches, and nature preserves. He has provided input on design and oversight for implementation of many stream and wetland restoration projects and currently assists with upland and wetland

habitat management on thousands of acres throughout the Intermountain West.

FRANCOIS ESCORIHUELA RIVER ENGINEER



Francois Escorihuela is a river engineer hailing from Lyon, France. He has worked with RiverRestoration in the Carbondale, Colorado office as well as remotely from Spain and France. He is fluent in French, English, Catala, and Spanish, and is speaks German at an intermediate level. He has been a passionate river steward and kayaker for over 15 years. It is this passion that led him to study civil engineering and hydraulics. His experience is broad ranging from whitewater park design for in river and out of channel features, including work on the London Olympic course, to aquatic habitat restoration and floodplain analysis. Francois is an avid traveler, taking his adventures all around Europe, North America, and the Middle East.

FORREST MACLEAN RIVER ENGINEER



Forrest has been working as a civil engineer for over 4 years with a broad range of professional experience. He graduated from the University of Wyoming with a Bachelor of Science in Civil Engineering degree and started his career in Pinedale, WY as a residential design and field engineer for 2 years. He spent 2 years working with the Utah Conservation Corps as a crew leader implementing and directing restoration efforts throughout Utah and disaster relief for Hurricane Sandy in New Jersey. He then moved to Salt Lake City, UT to work as a civil/geotechnical engineer with experience in foundation and slope-stability investigations, design of mitigation plans, environmental and hydraulic restoration. His skills include

designing and drafting in AutoCAD Civil 3D, design and construction engineering, proposal and project scoping, project coordination and management, construction supervision and surveying, project development and enforcement. He particularly wants to apply his experience and technical skills to restoring and protecting his passion for rivers. Forrest is an avid whitewater kayaker.

HATTIE JOHNSON LANDSCAPE DESIGNER



Hattie has two years of professional Landscape Architecture experience. Her skills include native vegetation planting plans, path and road alignment, grading, and AutoCAD, SketchUp and Adobe Creative Suite drafting and rendering. At RiverRestoration her responsibilities include technical office administration, marketing, conceptual design and rendering. Growing up near Atlanta, Hattie played in creeks and forests across the southeast on countless camping and river trips. Following her first year of undergrad, Hattie headed to the mountains of eastern Tennessee to learn how to guide a raft. She travelled to California, Costa Rica, West Virginia and eventually Colorado guiding her summers through school. She moved to Colorado after receiving her Bachelors of Landscape Architecture Magne Cum Laude from the University of Georgia in Athens, GA.

Her time on the river cultivated a deep love for water and its intricate systems. Connecting people to the natural processes that surrounds them is what initially lead Hattie to the profession of Landscape Architecture.



STATEMENT OF QUALIFICATIONS

Established in 2004, RiverRestoration is a highly technical river design and engineering firm working to revitalize waterways across North America. Our team of river engineers, watershed scientists and passionate river stewards is dedicated to creative solutions and new thinking for our rivers. With a track record including implementation of over 80 river centric projects, RiverRestoration provides the creative planning, engineering and technical support required for a successful river project.

RiverRestoration is a river engineering firm focused on enhancing rivers for both ecological and human benefit. We have the insight to enhance the social, economic, and environmental values flowing in the river every day. Our philosophy takes a whole system approach to river projects to meet the multiple needs of ecology, recreation, and water users for an overall higher functioning system. We identify degradations and uncover constraints to find solutions that benefit the whole system.

Our core competencies include:

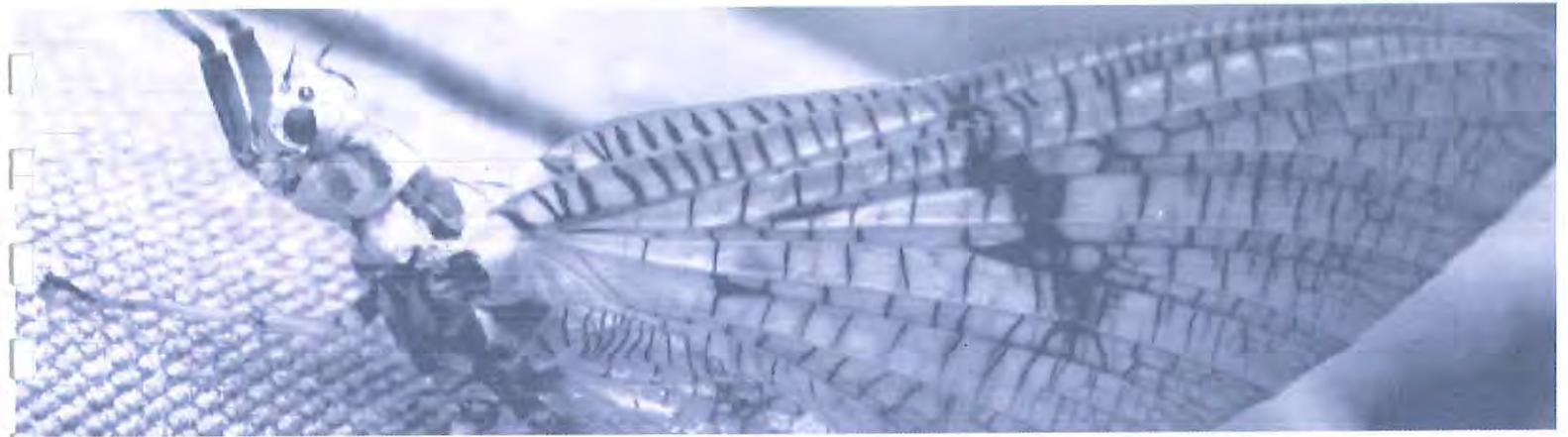
- **natural channel design**
- **river stability analysis**
- **floodplain determination**
- **reservoir capacity analysis**
- **dam removal design**
- **sediment and erosion control**
- **diversion structure design**
- **aquatic habitat design**
- **whitewater park design**
- **topographic and hydrographic survey**
- **construction management**
- **fish and boat passage design**
- **aquatic barrier design**

Our goal is for whole system design that includes restoration, preservation, enhancement and beneficial use of aquatic and riparian ecosystems. We employ a collaborative approach that balances the functional needs of water users, recreation and the environment for long-term, sustainable solutions. Our applied philosophy is that healthy rivers can exist as an integral part of our human environment.

We have developed an analytical approach to design of natural channels that results in sustainable riparian and aquatic habitat regeneration. We examine projects on broad time and spatial scales. Long-term function of geomorphology and sediment transport is central to our design. We connect communities to their rivers by designing river interaction as a central theme. These plans take into account habitat-function, recreation use, non-point source pollution reduction, low impact stormwater design and water rights. We establish a vision with clients and guide strategies to bring that vision to implementation, including assistance with grants and funding opportunities.

Our multi-purpose designs have widespread benefits. These benefits develop a broad coalition to support the project merits. We communicate with regulatory agencies to minimize impacts, build coalitions, and enhance habitat. Agency insight informs our designs and our designs turn regulators into advocates. Our work with natural resource agencies have not only aided in improved designs, but been a source of funding for the projects involved. We perform technical engineering including hydrographic surveys, multi-dimensional hydraulic modeling, sediment modeling, and flood hazard remapping to solve river issues. Often times our projects require FEMA map revisions. We are experienced in the CLOMR/LOMR process. We prepare native riparian landscape plans, soil and planting specifications, wetland delineations, and assessments of riparian and aquatic habitat conditions. We design environmentally sensitive diversion structures, or reduce or remove existing dams, while restoring aquatic and geomorphic processes and integrating passage for fish, sediment and boats. We appropriately locate and design recreation and whitewater enhancement projects without degrading ecology or conflicting with other uses. Our finished products are often complimented as being organic, as well as state of the art.





At RiverRestoration we are making rivers into better places. We have the insight to enhance the social, economic, and environmental values flowing in the river every day. Since our inception in 2004, we have been true to the river in all that we do.

WHO WE ARE

Talented river engineers and watershed scientists who apply an analytical approach to designing natural channels, wetlands and riparian corridors.

Passionate river stewards dedicated to creative solutions and new thinking for our rivers

Environmental and recreational enthusiasts who add long term experience and intuitive insight to sustainable design

OUR PHILOSOPHY

Higher functioning natural river systems can be achieved by inspiring communities, water users, recreation users and ecologic interests to find mutual solutions

A whole system design can be created that includes restoration, preservation, enhancement and beneficial use of aquatic and riparian ecosystems

Long-term stewardship can be generated by appropriately designing the human interaction with our rivers

OUR GOALS

Restore, enhance and preserve the riverine and riparian environment

Develop and implement Best Management Practices for living with and utilizing rivers

Inspire future generations of river stewards

Help communities recognize and celebrate the natural values of their river systems

Enhance recreation opportunities and enjoyment of the natural river system



OUR SERVICES

Natural Channel Design

We have developed a whole system approach to channel design that results in sustainable riparian and habitat regeneration. Long-term function of geomorphology and sediment transport is central to our designs.

Planning

We connect communities to their rivers by creating plans that encompass river interaction as the central theme. These include habitat, recreation, non-point source pollution reduction, low impact stormwater management and community planning.

Project Development

We establish a vision with clients and guiding strategies to bring that vision to implementation. This includes assistance with grants and funding opportunities. With wide spread project benefits and multi-purpose designs, we help develop a coalition that support the merits of a project.

Permitting

We coordinate with regulatory agencies to build coalitions during design and to meet requirements in a timely manner.

Hydraulic Analyses

We perform detailed analyses including hydrographic surveys; 1-D, 2-D, 3-D hydraulic models; sediment modelling; and remapping flood hazard areas to solve river flow issues.

Riparian Habitat Assessment & Wetland Delineation

We prepare native riparian landscape plans, soil and planting specifications, wetland delineations and assessments of riparian conditions.

Low Head Dams

We design environmentally sensitive diversion structures and reduce dams while restoring aquatic and geomorphic processes and integrating passage for fish and boats.

Recreation Enhancement

We appropriately locate and design “organic” recreation enhancement projects without degrading ecology nor conflicting with other uses.



RiverRestoration will hit the ground running, ready to meet the project's aggressive schedule and have all deliverables complete by the June 27th deadline. Shortly after the April 15th Notice to Proceed, RiverRestoration will spend a week on the site to assess the project reach, perform hydrographic survey, delineate wetlands and ordinary high water. Our firm has the expertise and equipment in-house to perform all of these tasks, eliminating coordination time with sub-consultant surveyors or environmental specialty firms. RiverRestoration surveys the majority of its projects, giving our designers an intimate familiarity with the site, its challenges, and its constraints which save time and effort during the design phase. We will likely use survey grade GPS combined with sounding equipment mounted to a boat to perform the survey efficiently and quickly.

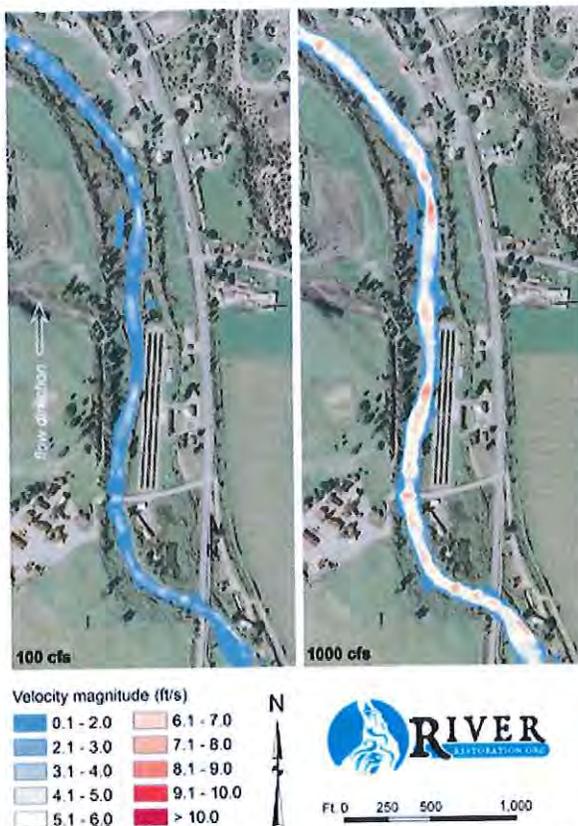
Once all of the pertinent data is collected, RiverRestoration staff will meet with City staff and key stakeholders to review our findings and discuss the project goals in detail. This feedback at the beginning of the project will be critical to the conceptual plan development. RiverRestoration staff knows how to incorporate the goals and needs of its clients and transform them into a viable project. Because of the compressed timeline, we can begin coordination with state and local agencies almost immediately. RiverRestoration has strong relationship with regional USACE and CPW staff and will strive to get the project smoothly through the permitting process.



RRO staff member surveying a river channel for a project in New Mexico for the US Bureau of Reclamation.

The hydraulic analysis and the conceptual design will begin about 2 weeks after NTP. Here, RiverRestoration staff's decades of experience working in and around rivers will be a huge asset to keeping the project on schedule and developing a whole system approach to the design.

The team has designed and built river enhancements projects, including in-channel features and riverside improvements throughout the country, and knows how to develop a sustainable, permissible, and successful project. The team will take a rigorous approach to the design, utilizing the hydrographic survey results and one and two dimensional hydraulic models to create realistic grading configurations in AutoCAD Civil 3D. Two dimensional hydraulic models of the grading plans will be used to analyze how water moves in the project reach at a wide range of flow rates. The models will be used to design recreational features, boat ramps and put-ins, and bank stability measures. They will be used to evaluate habitat enhancement, fish passage features, and provide water depths and inundation periods for riparian planting plans. The RiverRestoration team uses these advanced models on a daily basis and can quickly and cost effectively utilize them for the benefit of the project. Throughout the modeling and design development process, the team will coordinate with City staff on project details to keep the project moving forward in the right direction. We will also implement thorough in-house QA/QC procedures to produce quality deliverables.



2D Hydraulic Model of the Roaring Fork upstream of Basalt showing water depths and velocities at 3000 cfs.

During the conceptual design process, the team will host a public meeting in Delta to educate the public on the project, receive feedback and garner support. The RiverRestoration team is dedicated to connecting the community to the river and has seen first hand the benefits in other municipalities we have worked in. The team routinely attends public meetings and town halls during the project development stage to discuss project details. The team knows how to communicate technical details of the project to the public.

Construction document preparation is something RiverRestoration does on almost every project. The team produces quality plans and specifications that reduce uncertainty on the part of the contractor, resulting in lower bid prices and a smoother construction. RiverRestoration will provide detailed cost estimates at the 30% and 60% submittals, which will allow City staff to make informed decisions on project scope and details as each stage in the project.



Public review of conceptual level designs in Grand Rapids, MI

As the project progresses into the Preliminary Design phase in early June, the team will continue to coordinate with state and federal regulators, City staff, and key stakeholders to keep the project on track and moving towards the project goals. The preliminary design process will include additional hydraulic modeling and more project details added to the plans. This effort will help evaluate and finalize project details, increase confidence in project costs and clearly communicate the project to state and federal regulators for permitting purposes. The RiverRestoration team acquires local, state and federal permits on the majority of its river projects and knows how to complete this process efficiently and without surprises.

As stated in the RFP, the project will require a no-rise certification to Delta County if 100-year water surface elevations are not affected, and a Conditional Letter of Map Revision / Letter of Map Revision (CLOMR/LOMR) if 100-year water surface elevations are raised. RiverRestoration is intimately familiar with the regulatory process, performing a floodplain impact analysis on the majority of projects and authoring a no-rise certification letter or navigating the CLOMR/LOMR process to document this analysis. A one dimensional HEC-RAS model will be used to perform this analysis.

Fundraising and coalition building on projects is a big part of the RiverRestoration business model. Often we get involved in a project in the earliest stages, helping local groups build a project from the ground up. We have helped clients raise millions of dollars in funding for projects throughout the west. RiverRestoration staff has the experience, knowledge and relationships to help the City of Delta develop a fundraising strategy for the project and to develop a plan for building local and regional support for the project.

Through this entire process, the RiverRestoration team will remain in regular communication with City staff, which is critical to the success of the project. This communication, whether it be phone calls/webinars or progress meetings, will keep the project team and City staff moving towards the overall goals of the Project. Monthly progress reports and invoices will allow the City Project Manager to always know the status of the project and its budget.

STATEMENT OF AVAILABILITY

The RiverRestoration team is available and prepared to begin work upon the April 15, 2016 Notice to Proceed and can complete the work per the project timeline presented in the RFP.

Position	Roles/Purpose	Availability
Principal Engineer	Public/Stakeholder Meetings, Technical Lead, QA/QC, Vision, Whole System Channel Design, Recreation Enhancement Design	Up to 8 hour per week as needed
Project Manager	Project Management, Construction Documents, QA/QC, Cost Estimating, Permitting, Public/Stakeholder Meetings, Site Survey	Up to 16 hours a week as needed
Hydraulic Scientist/PhD	Hydraulic Modelling and Design, Floodplain Analysis	Up to 16 hours a week as needed
Field Engineer, EIT	Hydraulic Modelling and Design, Construction Documents, Floodplain Analysis, Cost Estimate	Up to 24 hours a week as needed
Landscape Designer	Public Involvement, Stakeholder Coordination, Bank Access Design, Construction Documents	Up to 20 hours a week as needed
Hydrographic Survey Crew	Hydrographic Survey	Available for design survey as needed
Watershed Scientist	Riparian Revegetation Planning, Wetland Delineation, Permitting, Soil Contamination Property Identification	Up to 4 hours a week as needed



Topography of the Roaring Fork River collected near Basalt, CO with UAV photogrammetry



Gore Canyon Whitewater Feature at Pumphouse during Gore Fest 2015

PROJECT LIST

Project Name	Location	Year Built	Type of Project/Notable Features	Contact Information	Key Personnel Involved
Ogden River Revitalization Project	Ogden River Ogden UT	2011	Comprehensive river project with recreation, in-channel and riverbank improvements.	Justin Anderson, Ogden City Engineer 801.629.8982	Jason Carey, P.E.
Vail Flood Damage Assessment and Repair Projects	Gore Creek and tributaries Vail, CO	2010-Present	Comprehensive flood damage assessment, project prioritization and cost opinions, emergency response time repair projects	Gregg Barrie Town of Vail Senior Landscape Architect 970-479-2337 gbarrie@vailgov.com	Jason Carey, P.E. Scott Prins, E.I. Hattie Johnson, LAIT Quinn Donnelly, P.E.
Riverdale Flood Damage Assessment and Repair Projects	Weber River Riverdale City, Utah	2011	Comprehensive flood damage assessment, project prioritization and cost opinions, emergency response time repair projects	Shawn Douglas Riverdale City Public Works Administrator 801.394.5541 ext. 1217	Jason Carey, P.E.
Eagle River Recreation Enhancement Plan	Eagle River Eagle County, CO	2005-2006	River corridor master planning, recreation and habitat enhancement	Cliff Simonton, Eagle County Community Development (970) 328-8751	Jason Carey, P.E.
Big Bend Habitat Restoration	Jordan River West Jordan City, Utah	2013-Present	River corridor master planning. Recreation enhancement, habitat enhancement	Charles Tarver City of West Jordan Grants Manager 801.569.5062 charlest@wjordan.com	Quinn Donnelly, P.E. Eric McCulley
Gore Canyon WWP	Grand County, OR	2015	1 wave feature, separate fish passage channel, bank access and viewing platform.	Ed Moyer, County Manager 970.725.3101 emoyer@co.grand.co.us	Jason Carey, P.E. Scott Prins, E.I. Hattie Johnson, LAIT

*Successful fundraising after the start of construction led to project area expansion with additional design budget and construction.

Stand up paddleboarding on the Gobbler at the Turkey River Recreation Enhancement in Elkader, Iowa.



OGDEN RIVER RESTORATION

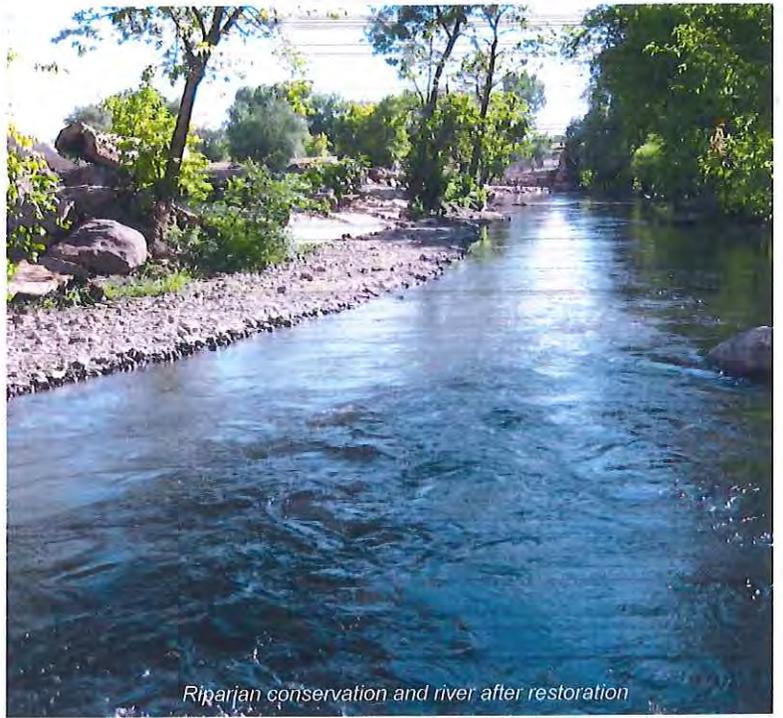
After restoration

For over 60 years, the Ogden River had been used as a dumping ground for waste material and channelized in an attempt to maximize industrial land to the detriment of stream health. The project vision, to restore a naturally functioning Ogden River with vibrant greenspaces connecting to the urban landscape, was led by RiverRestoration. Design features included interior floodplains, diversified currents, stormwater buffering, and overall improved stream health. Riparian habitat was increased five-fold. A 1.1-mile river trail was aligned with boardwalks crossing over constructed wetland stormwater return areas. Concentrated river access was created at over 20 locations, including innovative river access ramps. Whitewater parks, fishing habitat, and swimming-safe rapids were created throughout. Over 6,000 tons of recyclable debris, 9,000 tons of trash, 7 whole cars and 2,500 tires and 200 batteries were removed from the channel.





Boardwalk over a stormwater return wetland



Riparian conservation and river after restoration

Location: Ogden River | Ogden, Utah
Project Duration: 2007-2013
Project Budget: \$5.3M Implementation | \$700K Project Development
Change Orders: Unit price bid
Contact: Justin Anderson, Ogden City Engineer | 801.629.8982
Client: Ogden City



New recreational path

Quick Facts:

- The Ogden River Restoration was a design/build approach.
- Design drawings, construction details, specifications, and permits were developed within 9 months.
- Construction started on the first phase of the project with \$1M.
- The Restoration was completed, without interruptions, within two years for a total project cost of \$6M.
- Assistance provided with fund raising and stakeholder coordination.
- A CLOMR/LOMR was prepared by RiverRestoration

Awards:

- Utah's 46th Blue Ribbon fishery
- American Fisheries Society Utah Chapter Conservationist of the Year Award to Ogden City 2011
- Utah DEQ Water Quality Board Sudweeks Award 2012
- Migratory Bird City

Project Highlights:

- Wetland stormwater return areas
- Urban trails and concentrated access areas
- River recreation enhancements
- Delineated riparian buffer with native plantings
- Invasive species removal
- Irrigation diversion improvements
- New USGS gage station
- Water Quality benefits (NPS load reduction, macroinvertebrate habitat, riparian buffer, etc.).



Fishing on the Ogden River

*The health of our waters is the principal measure of how we live
on the land.*

Luna Leopold



Fishing in the restored river

The project was listed on the USACE 206 list and Senator Bennet was lobbied to include the project in the 2008 budget; however, federal funds were not appropriated. Project momentum languished until April of 2009 when substantial American Recovery and Reinvestment Act monies were set aside for the project. Since that time the successes and merits of the project have been widely acknowledged and celebrated and the support, both monetary and communal, has snowballed. The Ogden River was once the back yard trash dump of the City, now it is the heart of the revitalization of Ogden City.

The structures installed in the channel were designed to affect the morphology of the river bed. The encroached channel had very uniform cross section, habitat type, and substrate size. Innovative riffle structures were designed and located with the intent to capture and refresh with gravel at a steeper gradient than the uniform channel. Thalweg formation was promoted with location of scour vanes and boulder clusters. Pools were designed to be maintained by hydraulic drops. Flooding during construction in 2011 was a channel forming event and the channel response is very positive with refreshed riffles, a scoured thalweg and deep pools. The morphological response was just in time to test the natural habitat function in the severe drought condition of 2012. The deep pools and thalweg helped the survival of the fishery.

Creating a sustainable interface between the urban and restored natural areas is a long-term goal of the project. The developable areas were remapped and taken out of the 100-year flood hazard by increasing the channel conveyance with interior floodplains. The interior floodplains serve as a greenspace for the community. The river changed Ogden's blighted past to a vibrant future. Today the community embraces their river as a valued resource flowing in the heart of the City.



Recreation and access to the Ogden River have made it a centerpiece of the City.





TOWN OF VAIL FLOOD DAMAGE REPAIR PLAN



This photo was taken just after flood waters receded showing the RiverRestoration designed bank and whitewater feature in solid working condition

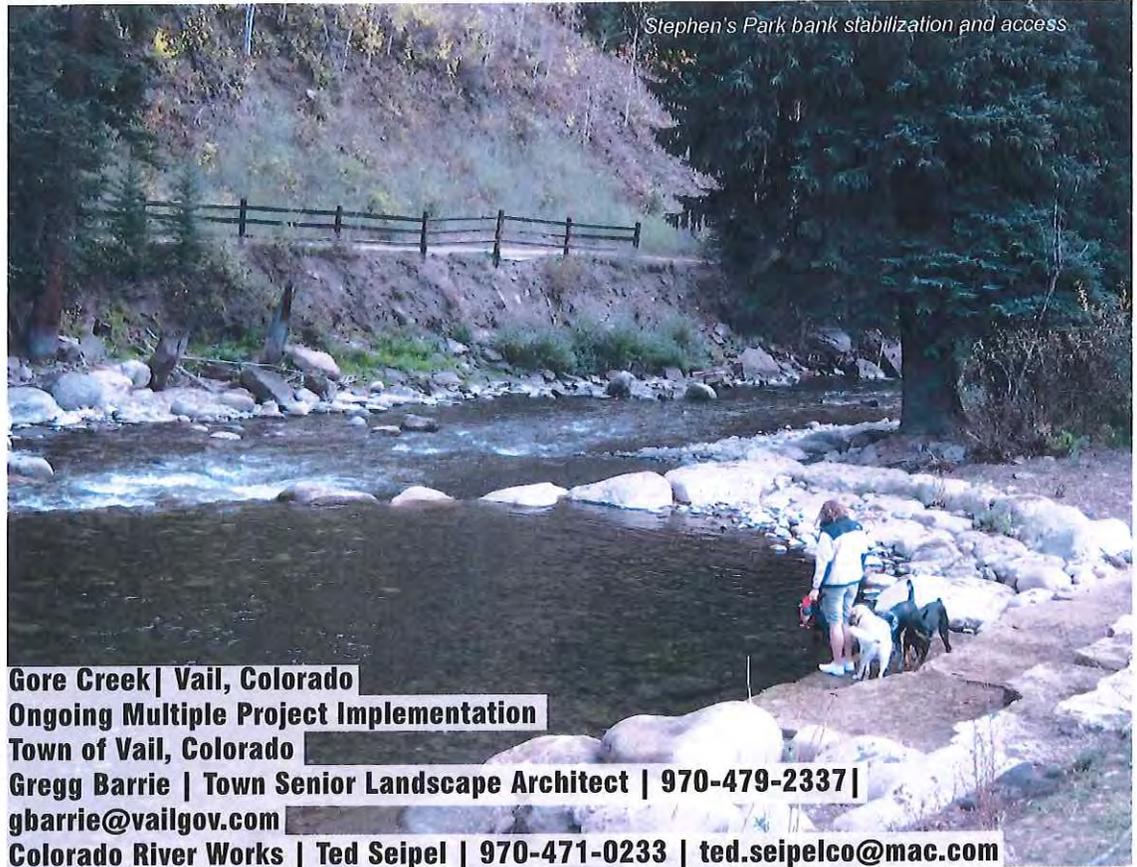
Reactionary emergency flood damage repair has done significant harm to many rivers, RiverRestoration's approach is to maximize the long term function and sustainability in all projects. A significant flood event occurred within the Town of Vail in June of 2010. RiverRestoration estimated that flows, greater than the 100-year event occurred on the main channel and exceeded the 500-year event on a number of tributaries. This flooding significantly damaged property, infrastructure and the channel. Town of Vail requested a damage assessment and a prioritized restoration plan. The Town is highly sensitive to the environment and aesthetics and requested a restoration plan that could enhance the natural function of the channel while stabilizing the urban infrastructure.

RiverRestoration categorized and prioritized 64 projects for damage repair with cost opinions and sustainable designs. Four top priority projects were designed and guided through construction within 6 months. Four additional projects were implemented a year later and eight additional projects are in the final phases of design. Improved flood

conveyance, bank stability and infrastructure protection has been achieved at each project. These designs have accommodated habitat, morphology, and recreation while being aesthetically pleasing. The riverfront property values are a close second to the slopeside valuations as the Gold Medal fishing and world class kayaking are creating year round recreation demand in this mountain resort town.



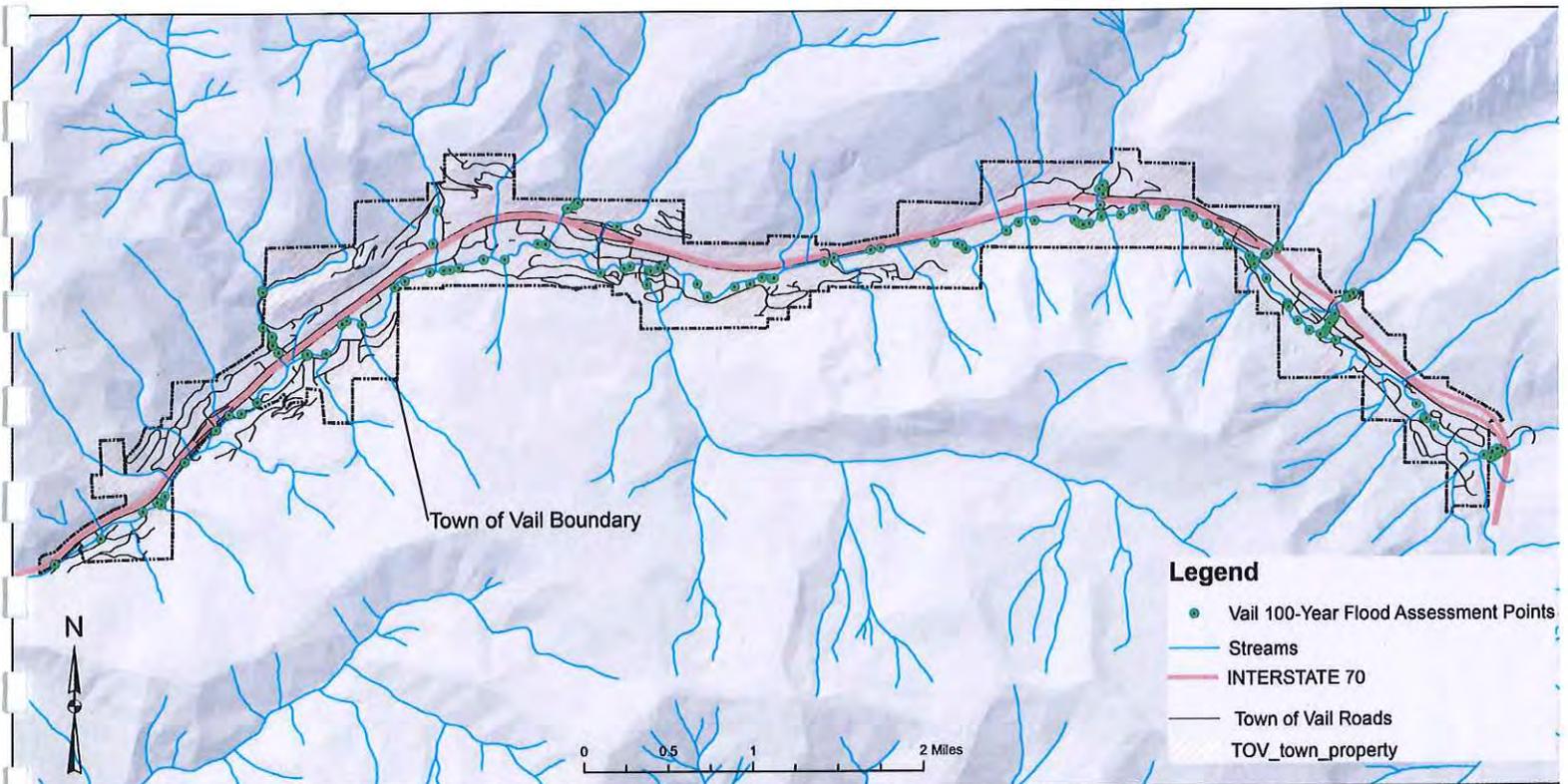
Sixty feet of flood erosion at this river bank threatened collapse of 150 foot tall conifer trees and the capture of historic channels pictured here. RiverRestoration stabilized the eroding bank with a combination of stone terracing and dense riparian vegetation. The main channel was trained with a number of rock barbs. The toe of the banks supporting the conifers was stabilized with stone toe protection and significant revegetation of the understory. The project fronts the Stephen's Park dog park and is now the best place to cool off in Vail.



Stephen's Park bank stabilization and access

Location: Gore Creek | Vail, Colorado
Project Duration: Ongoing Multiple Project Implementation
Client: Town of Vail, Colorado
Contact: Gregg Barrie | Town Senior Landscape Architect | 970-479-2337 | gbarrie@vailgov.com
Contractor: Colorado River Works | Ted Seipel | 970-471-0233 | ted.seipelco@mac.com

RiverRestoration assessed over 12 miles of Gore Creek and its tributaries where they flow through the town of Vail. All sites were assessed for flood damage, of these a total of 64 specific projects were identified and prioritized as shown below.



Flood erosion of a river bank completely scoured the Christopher Sewell pedestrian bridge abutment and the bridge was structurally unsound. The bank was rebuilt and trained in place and the abutment was stabilized in place to save the bridge and defer the more significant costs of replacing the bridge.



RiverRestoration engineered community access bank and the Vail Whitewater Park that functioned without damage during the 100 year flooding. This photo was taken immediately after flood waters receded, during the 2010 flood damage assessment.



100-year flooding caused 50 lateral feet of channel migration and the collapse of Aspen Court bridge. RiverRestoration realigned the river and stabilized the bank with a combination of stone toe protection and a live crib bank. The live crib design allowed for the mass of channel deposits to be cost effectively disposed onsite into the rebuilt bank. The floodway conveyance was restored with this project. Dense riparian vegetation was planted in the face of the crib as well on the overbank. The channel was designed for the continued transport of cobble materials and to accommodate potential future channel migration.

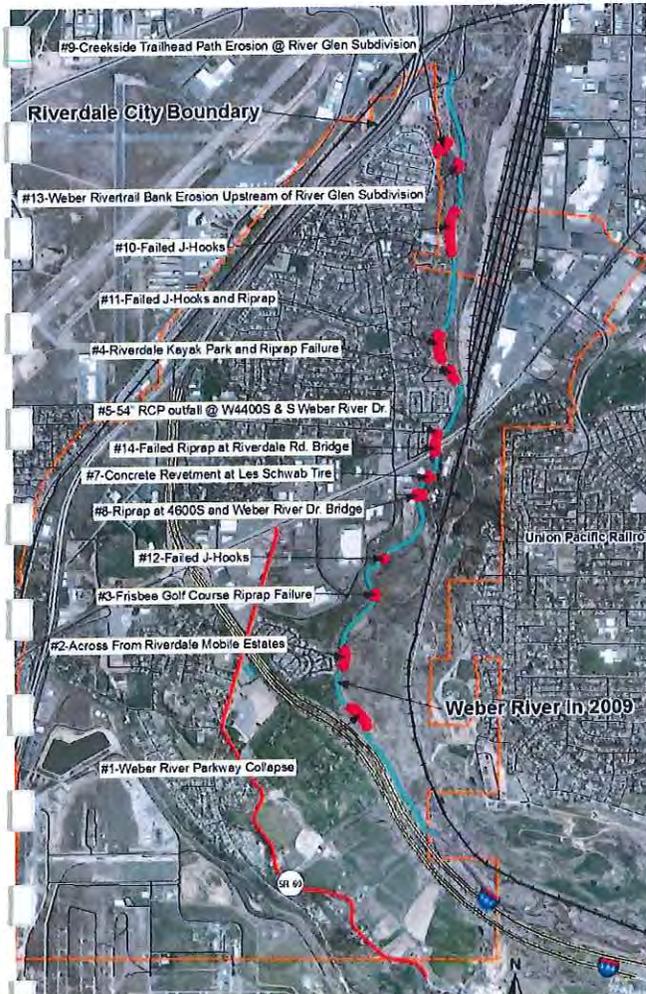


Bio-stabilization of a live crib bank with native riparian species designed by RiverRestoration was built to stabilize an actively eroding bank and provide safe access to a previously unofficial yet popular overlook of Gore Creek.



RIVERDALE CITY 2011 FLOOD DAMAGE ASSESSMENT AND REPAIR PROJECTS

Water year 2011 was marked by a significant snowpack in Northern Utah and a wet spring that detained runoff well past the typical peak flow periods of mid May. As a result a significant flood event occurred on the Weber River within Riverdale City, UT in April, May and June of 2011. Average daily flows were sustained above the 10-year recurrence interval for a total of 27 days. The duration and magnitude of flows for this season caused channel instabilities in several areas that threatened infrastructure, resulted in loss of land, flooded property, destabilized banks, devalued recreational resources, and reduced the stability of the channel. Flooding was severe enough that President Obama declared a Major Disaster for the State of Utah making federal disaster aid available to communities impacted by the disaster.



RiverRestoration prioritized fourteen locations where public infrastructure was damaged during the 2011 flood event. The site assessments also identify the actions and costs necessary to repair the damaged sites to their pre-flood conditions. While the flood of 2011 was the direct cause of these damages, there are systemic problems with this reach of the Weber River. RiverRestoration proposed to address these issues on a system wide basis. RiverRestoration's approach the flooding issues on the Weber River revealed added benefits to the community and the river ecosystem. The watershed approach proved to be the long term, least cost solution and this approach had the added benefit of bringing a wide range of collaborating partners to the table, creating greater opportunities for project funding and success.

RiverRestoration performed a rapid flood assessment survey of a 3.15 mile reach of the Weber River within Riverdale City. Conceptual plans, cost estimates, and FEMA Project Worksheets Form 90-91 for damage repair were developed for each of the 14 identified priority locations. RiverRestoration's analysis was for watershed function and recommendations for repair encouraged river-centric design to more readily accommodate for high flow events in the future. Additionally, opportunities to improve riverine and riparian ecosystem functions were identified as well as a number of opportunities for recreational enhancements.

Location: Weber River, Riverdale, Utah

Date: 2 years

Client: Riverdale City, Utah

Contact: Shawn Douglas | Riverdale City Public

Works Administrator | 801.394.5541 ext 1217



The collapse of the 300 feet of the Weber River Parkway, a bike and pedestrian path that follows the river, was a top priority for damage repair. RiverRestoration was retained to design and manage construction for a stabilization of the bank and rebuilding of the bike path. Due to property constraints, the pathway could not be offset further from the river. Our staff, designed from the river outward taking into account the dynamic nature of the Weber River, stabilized the bank in a way that accommodates future changes to the channel. That process informed the new alignment of the bike path within the property easements. Lowering of the path was integral to the stable bank design and helped prevent future erosion by reconnecting the floodplain. Allowing the fluvial processes inform the repair of the flood damage, RiverRestoration increased Riverdale City's confidence that the system will withstand future flood events.

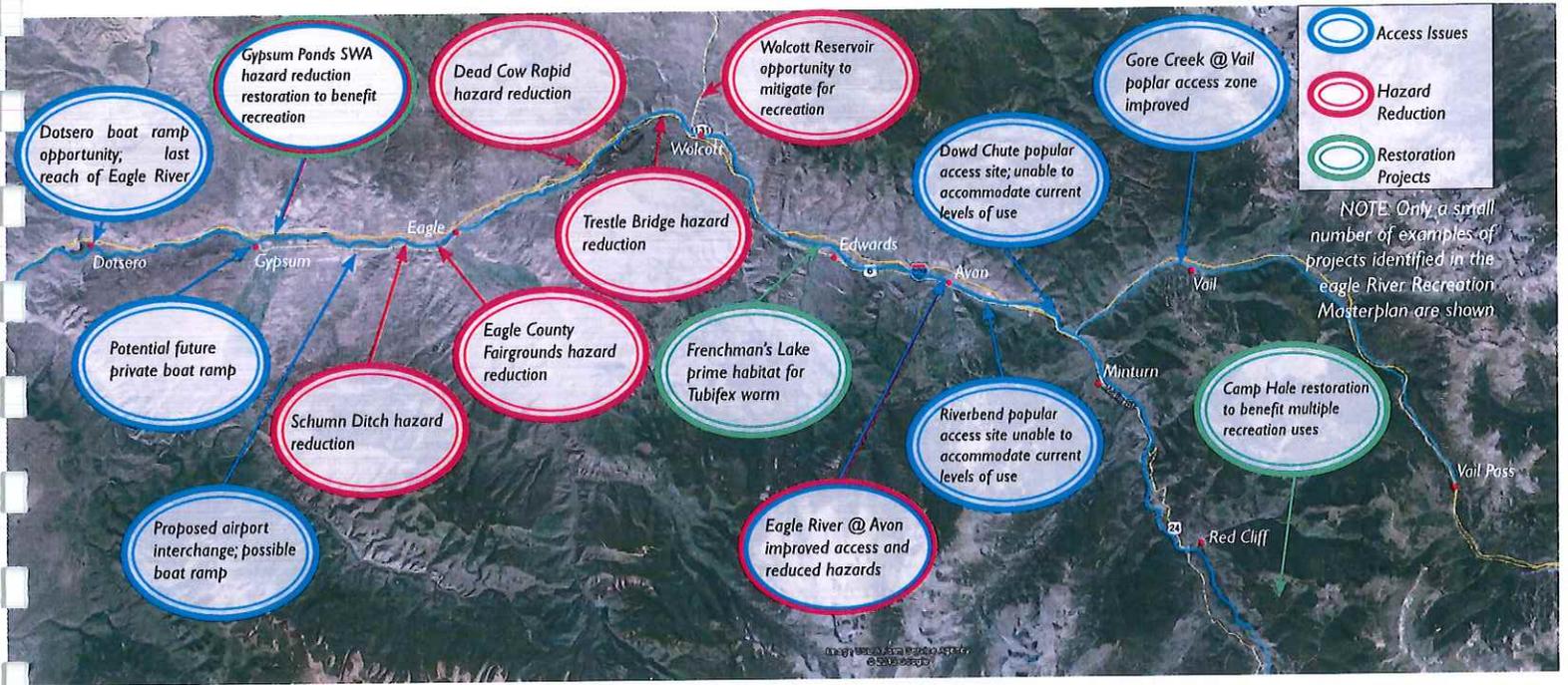


Don't just build a bike path



Integrate the path with a stable bank, increase floodplain conveyance, create access to the river for the community, increase fish holding for fishermen, and ensure that it functions and lasts.

RiverRestoration prioritized ecosystem and riparian buffer enhancement opportunities throughout Riverdale City. There are a number of locations where the ecosystems are not fully functional due to haphazard flood protection. Providing an adequate buffer along the river allows riparian ecosystems to function naturally while providing flood protection. The land preserved for the river has been planned as open space, providing opportunities for recreational activities as well as providing conveyance for and attenuation of floods. RiverRestoration worked in 2015 with Housing and Urban Development and Weber River Partnership to develop funding for the system-wide improvement. The RiverRestoration recommendations are expected to improve the following: wetlands, riparian areas, in-stream habitat, drop structure modification, and green infrastructure stormwater returns.

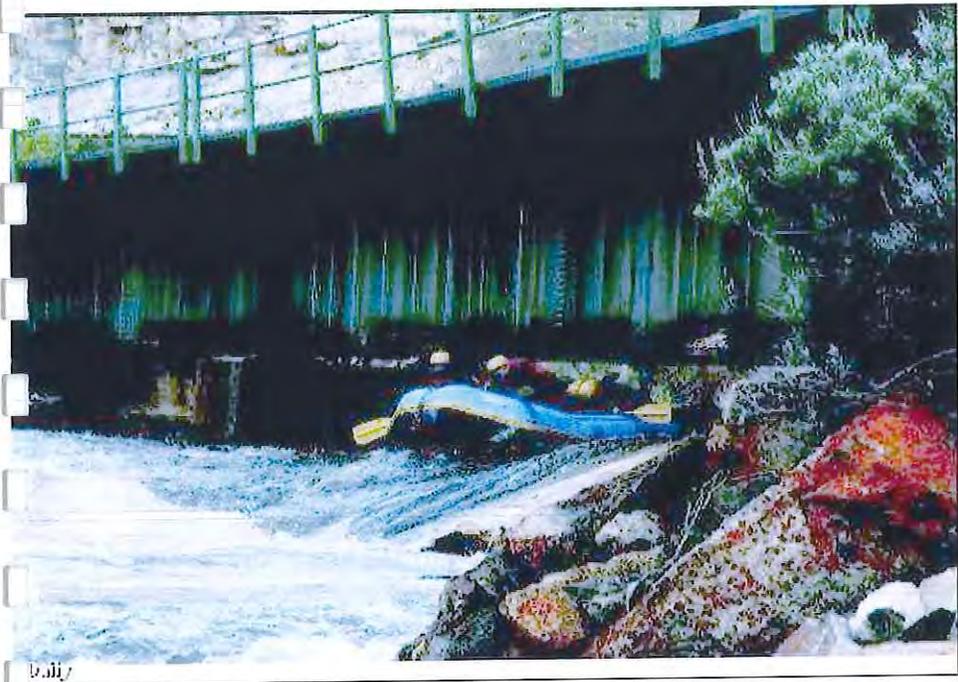


Location: Eagle River, Eagle County, Colorado
Date: 2005-2006
Project Budget: \$36K Project Development
Client: Eagle County
Contact: Cliff Simonton, Eagle County Community Development | (970) 328-8751



EAGLE RIVER RECREATION ENHANCEMENT PLAN





“The Eagle River Recreational Enhancement plan augments our County and Municipal Master plans by focusing specifically on the river. We sometimes take for granted how easy it is to fish or boat all up and down the valley, but we needed to take a more systematic approach to planning for the future. RiverRestoration’s holistic and collaborative approach provided the County and all the different municipalities a common platform to protect future access to the river while ensuring the habitat is preserved.”

*--Cliff Simonton
Eagle County AICP Senior Planner*

Eagle County government desired a Recreation Enhancement Plan that would balance fast growing recreational demands on the Eagle River with protection of the celebrated environment that stretched for over 40 miles through the center of the valley. They were eager to avoid reaching the tipping point of “loving their river to death” while providing diverse opportunities for future river access.

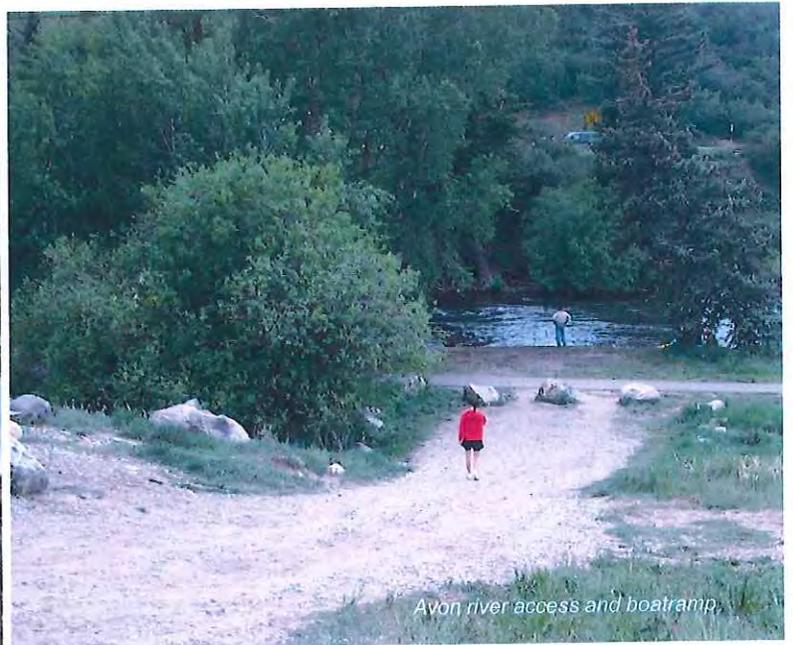
RiverRestoration was retained in 2005 to develop a recreation plan with input from multiple parties including the US Forest Service, BLM, CO Department of Transportation, Division of Wildlife, Eagle River Watershed Council, private landowners, commercial guides and outfitters as well as individuals across municipal boundaries.

Completed in just 12 months, the County now has a plan that separately prioritizes habitat, access and recreation enhancement projects throughout the community. RiverRestoration developed a plan for Eagle County that provides balanced benefits to the growing number of people across seven municipalities in the area as well as to the abundant wildlife dependent on the Eagle River environment.





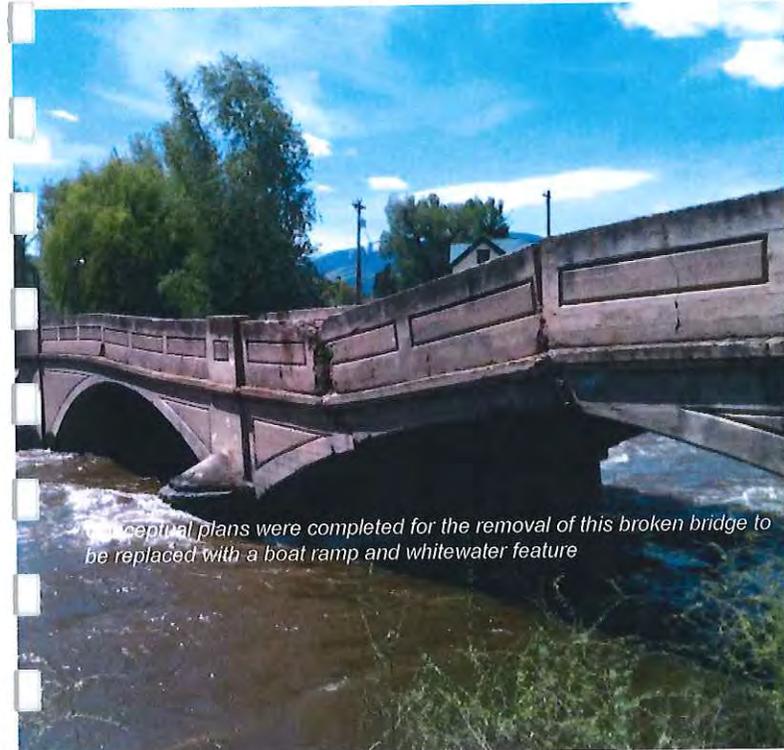
Edwards wetlands flooding



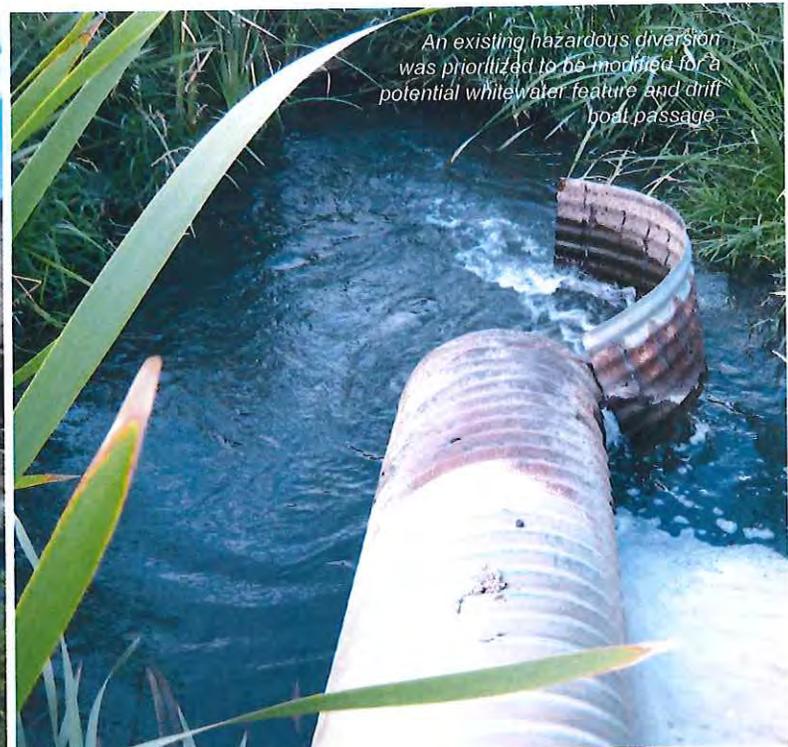
Avon river access and boat ramp

The Eagle River Recreation Enhancement Plan developed a recreational inventory and assessment of the Eagle River corridor from the headwaters to the mouth of Glenwood Canyon. The plan identifies 58 access points in 20 different reaches of the river. In-stream hazards for recreation were identified in 115 locations throughout this 60 mile stretch of the Eagle River.

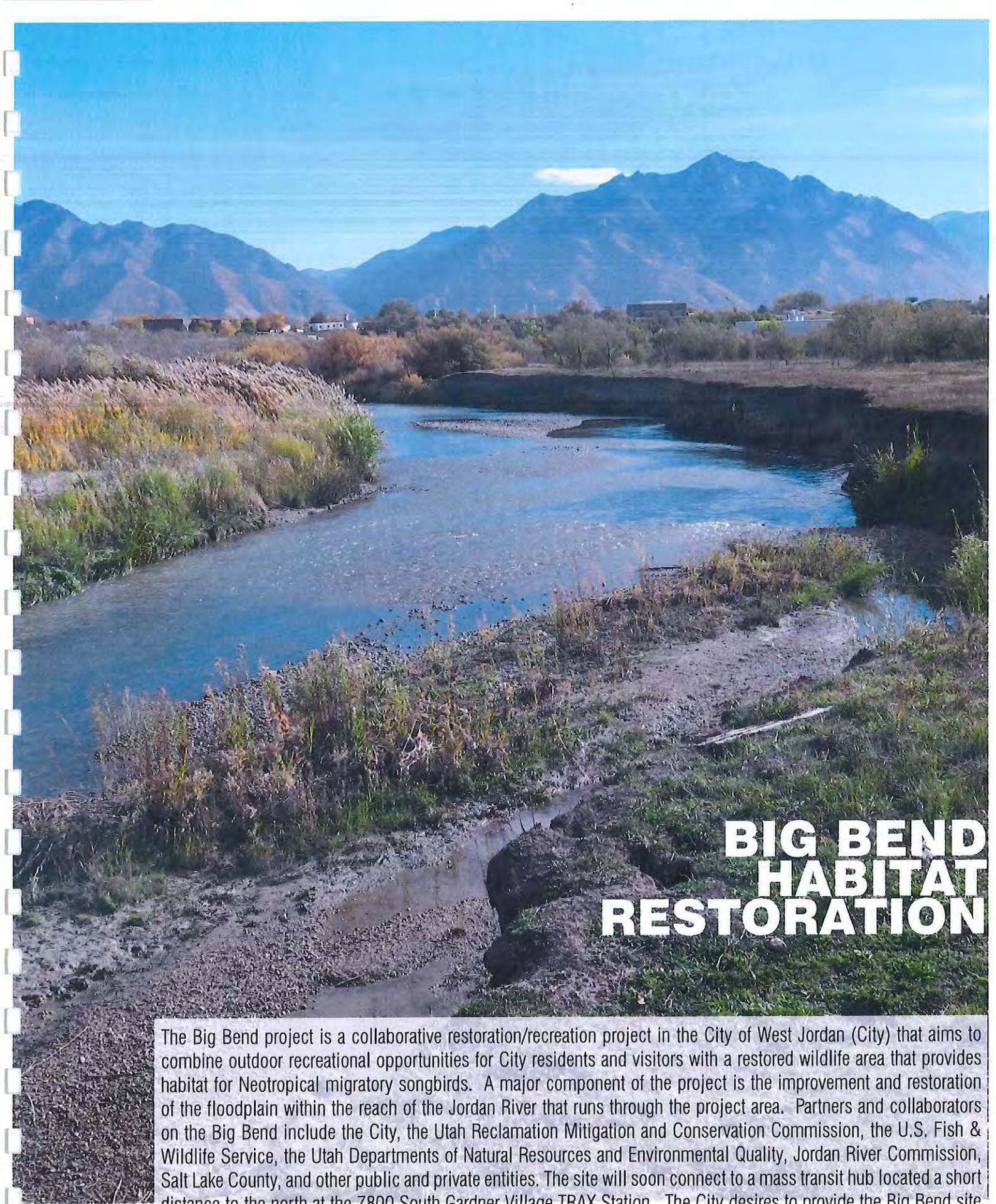
The Eagle River Recreation Enhancement Plan includes site descriptions, use patterns, habitat conditions, parking sites, photographs and recommendations for each point of access. Concept designs with itemized cost estimates were developed for 15 sites to enhance river recreation opportunities.



Conceptual plans were completed for the removal of this broken bridge to be replaced with a boat ramp and whitewater feature

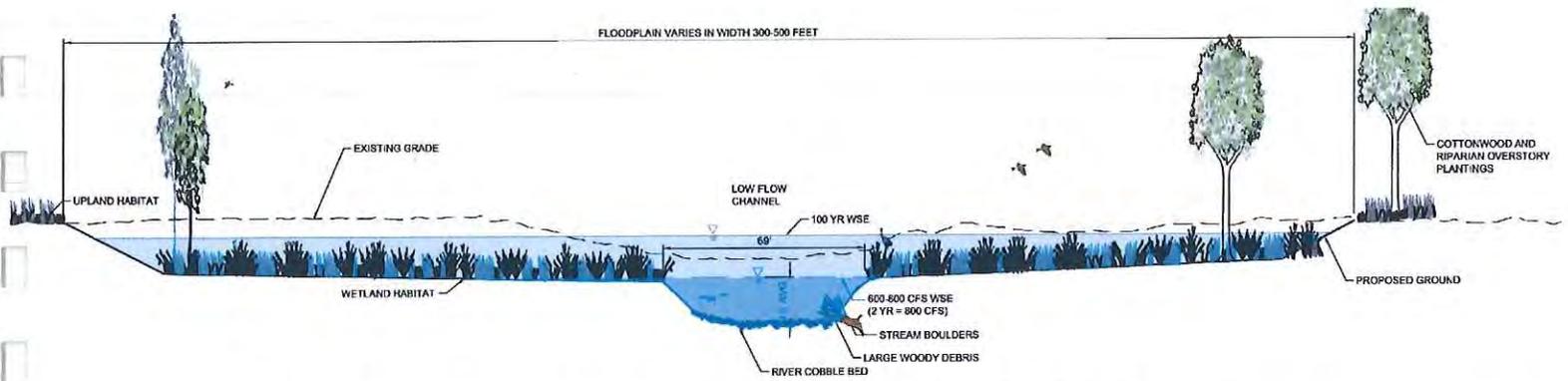


An existing hazardous diversion was prioritized to be modified for a potential whitewater feature and drift boat passage



BIG BEND HABITAT RESTORATION

The Big Bend project is a collaborative restoration/recreation project in the City of West Jordan (City) that aims to combine outdoor recreational opportunities for City residents and visitors with a restored wildlife area that provides habitat for Neotropical migratory songbirds. A major component of the project is the improvement and restoration of the floodplain within the reach of the Jordan River that runs through the project area. Partners and collaborators on the Big Bend include the City, the Utah Reclamation Mitigation and Conservation Commission, the U.S. Fish & Wildlife Service, the Utah Departments of Natural Resources and Environmental Quality, Jordan River Commission, Salt Lake County, and other public and private entities. The site will soon connect to a mass transit hub located a short distance to the north at the 7800 South Gardner Village TRAX Station. The City desires to provide the Big Bend site with features that will allow people to “connect with nature” such as boardwalks, viewing and interpretive stations. A community fishery operated by the Utah Division of Wildlife Resources will also be included in the complex.



Floodplain and meander channel restoration cross section for the Jordan River on the Big Bend site

The West Jordan Big Bend Habitat Restoration Project is an ambitious river and riparian restoration project that has been in the planning stages for more than a decade. In order to take the project from planning into implementation, the project team has gathered the available information and data on the project area and developed a set of three cost alternatives. The project team has also gathered input from West Jordan City staff and the core Stakeholder team.

The river overflowed its banks during the large floods in 1952, Salt Lake County built a diversion dam to divert some of the Jordan River's flow into a surplus canal. These floods also led to the USACE implemented program of straightening and dredging of the river, with the goal of reducing future flooding during high spring runoff events. Many other activities have altered the Jordan River in the project area. The project team chose to move forward on the design of a meander channel with off-channel wetlands to restore the floodplain and associated habitat of the Jordan River through the site. The site grading is depicted below including other project elements.



The proposed project elements include the following: an urban fishing pond, an iconic structure and viewing area, foot paths, a proposed meander channel, upstream diversion, and downstream confluence area, habitat restoration, and access road and parking considerations.

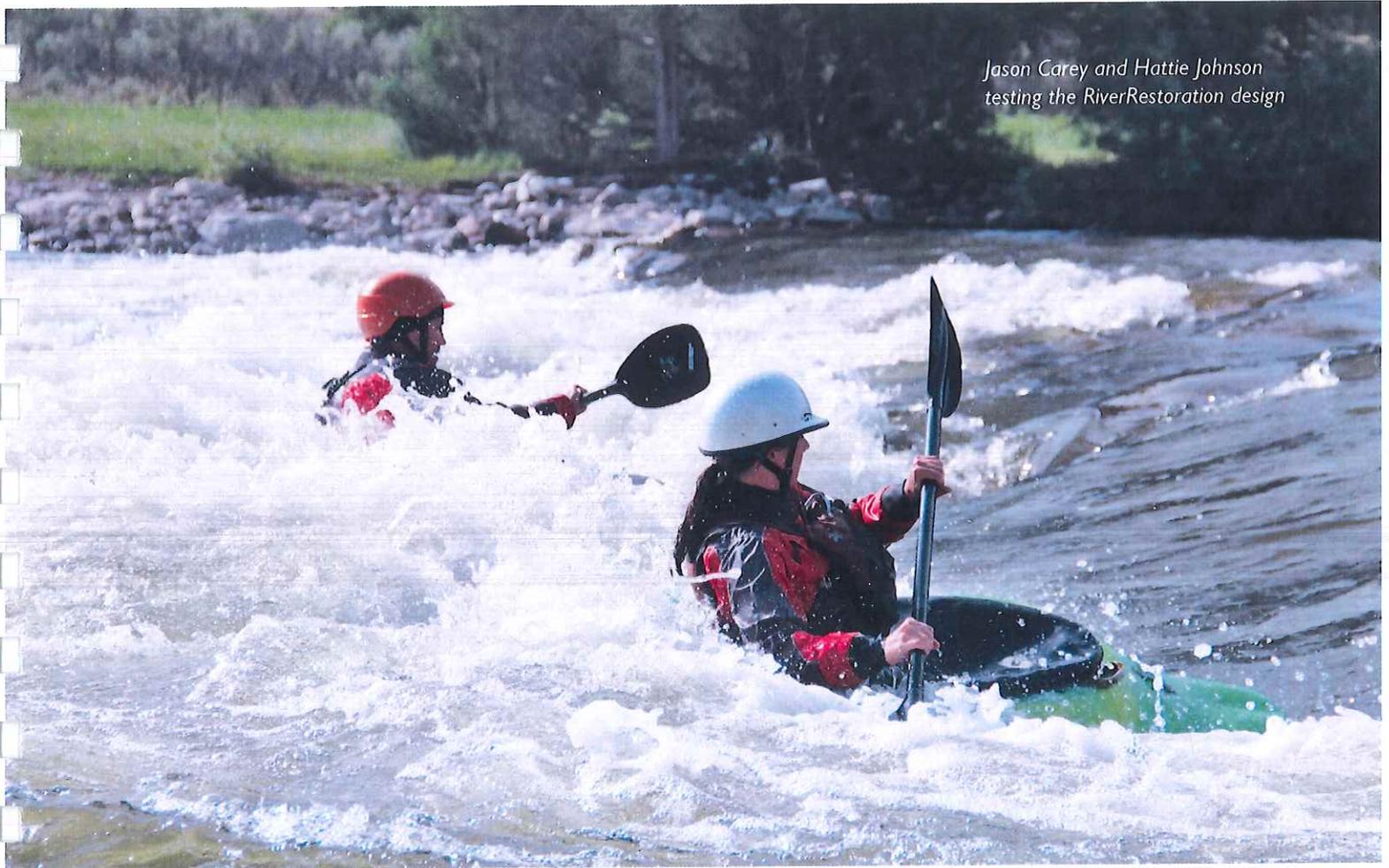
Alternatives for each project element was presented to West Jordan City staff and Stakeholder Team along with suggested evaluation criteria for each alternative. Cost opinions were provided for each alternative.

30% design of the selected alternative was complete in August 2015. The project team is aggressively pursuing funds to complete the design and construction of the project. The team has raised over \$200K in the past eight months, with another \$250K in grant applications has been submitted and awaiting award decision.



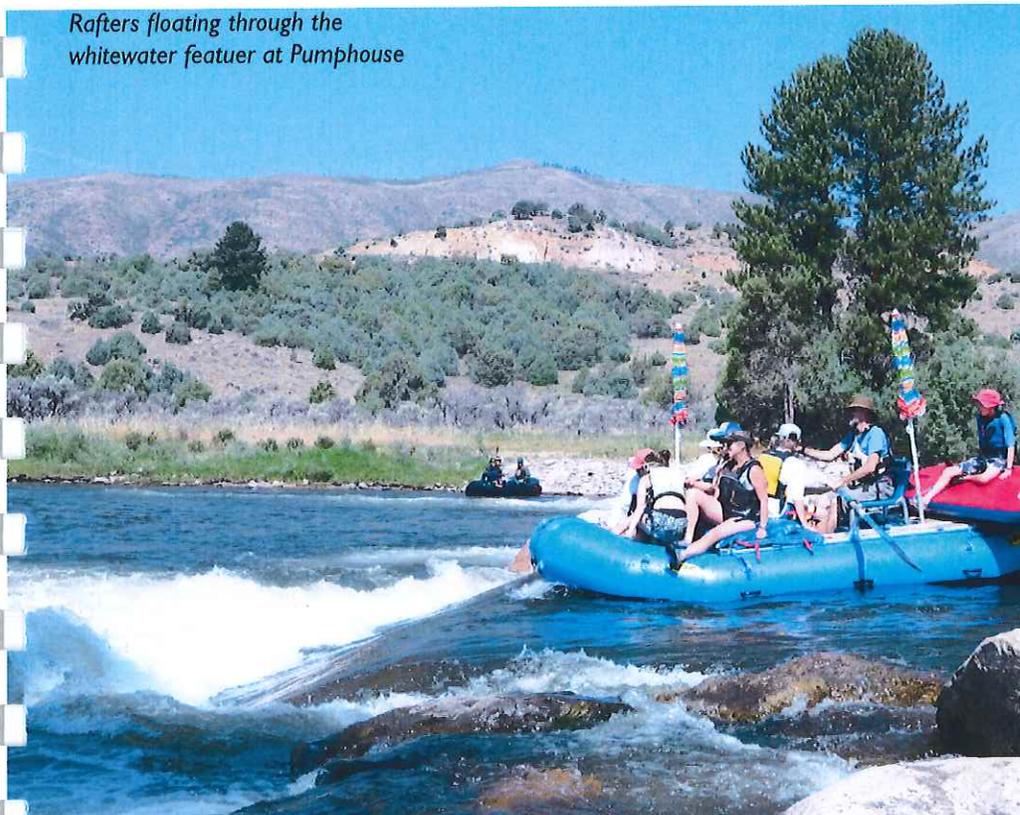
Site grading plan for meander channel and full floodplain restoration

Jason Carey and Hattie Johnson
testing the RiverRestoration design



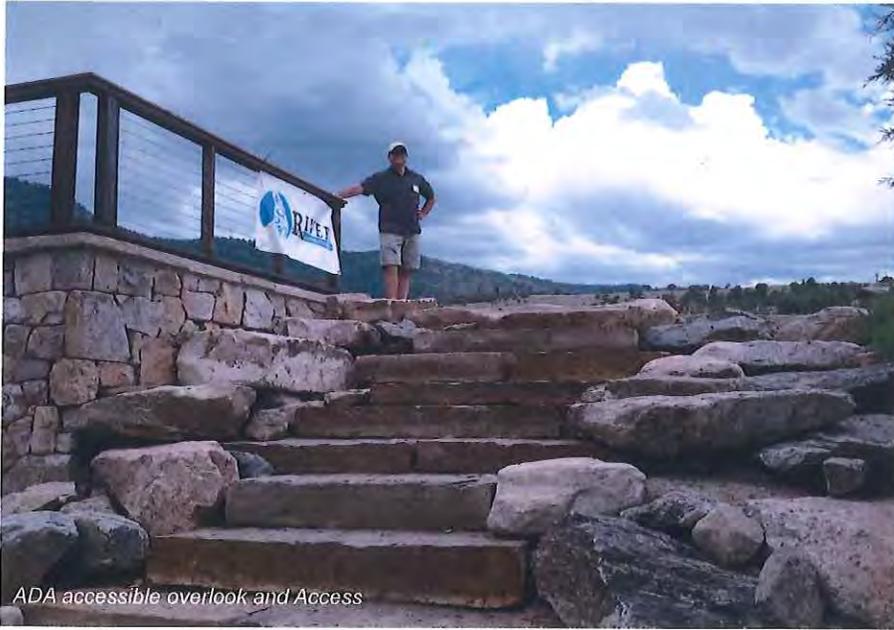
GORE CANYON WHITEWATER FEATURE AT PUMP HOUSE

Rafters floating through the
whitewater feature at Pumphouse



The Pumphouse Recreation Area, regulated by the Bureau of Land Management, is located at the take out of Gore Canyon. Boaters, landowners, regulatory agencies and a wide variety of Colorado River lovers all had crucial and active roles in bringing the project to fruition. Construction of RiverRestoration's designed whitewater park was completed spring of 2015. The park attracts boaters to the area as well as makes absolute a recreational in channel diversion water right for Grand County, Colorado. The Gore Canyon Whitewater Park was granted water rights for flows ranging from 860 to 1500 cfs and uniquely, the decree also protects deliveries of water up to 2,500 cfs.





ADA accessible overlook and Access

"This is the first RICD decree entered under the new statutes... It is the largest RICD water right decreed in Colorado and the only one on the Colorado River mainstem to date."

-David Taussig, an attorney with White & Jankowski, LLP in Denver who represents Grand County on water matters

Location: Colorado River | Pumphouse Recreation Area Grand County, CO

Project Duration: 2010-2015

Cost: \$1.7M

Contact: Ed Moyer, County Manager | emoyer@co.grand.co.us | 970.725.3101

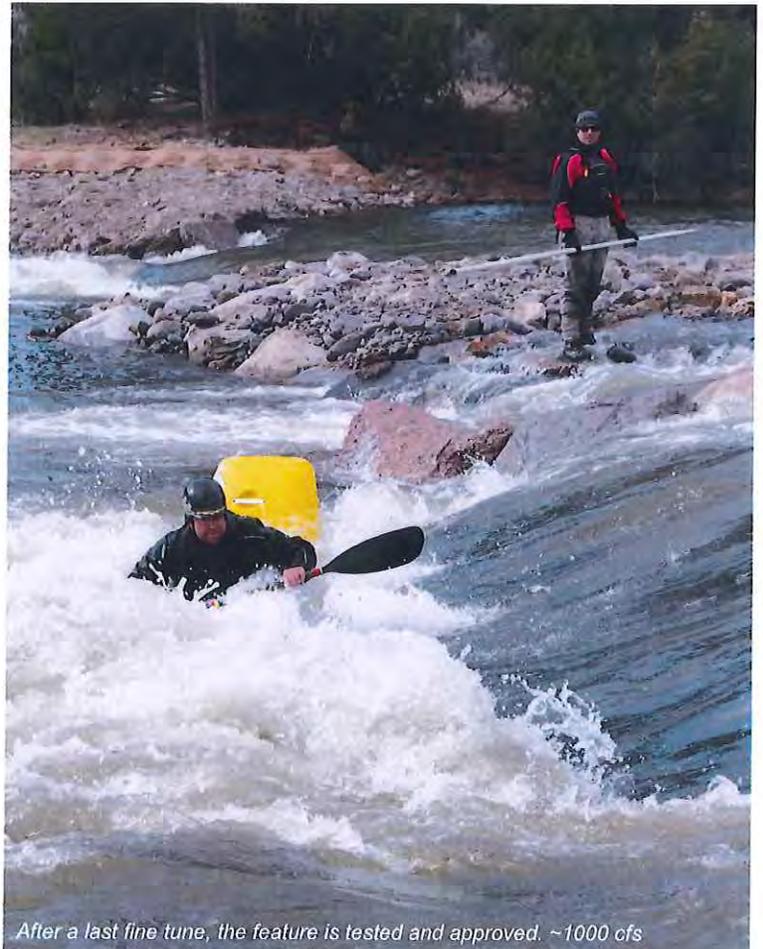
Client: Grand County, Colorado



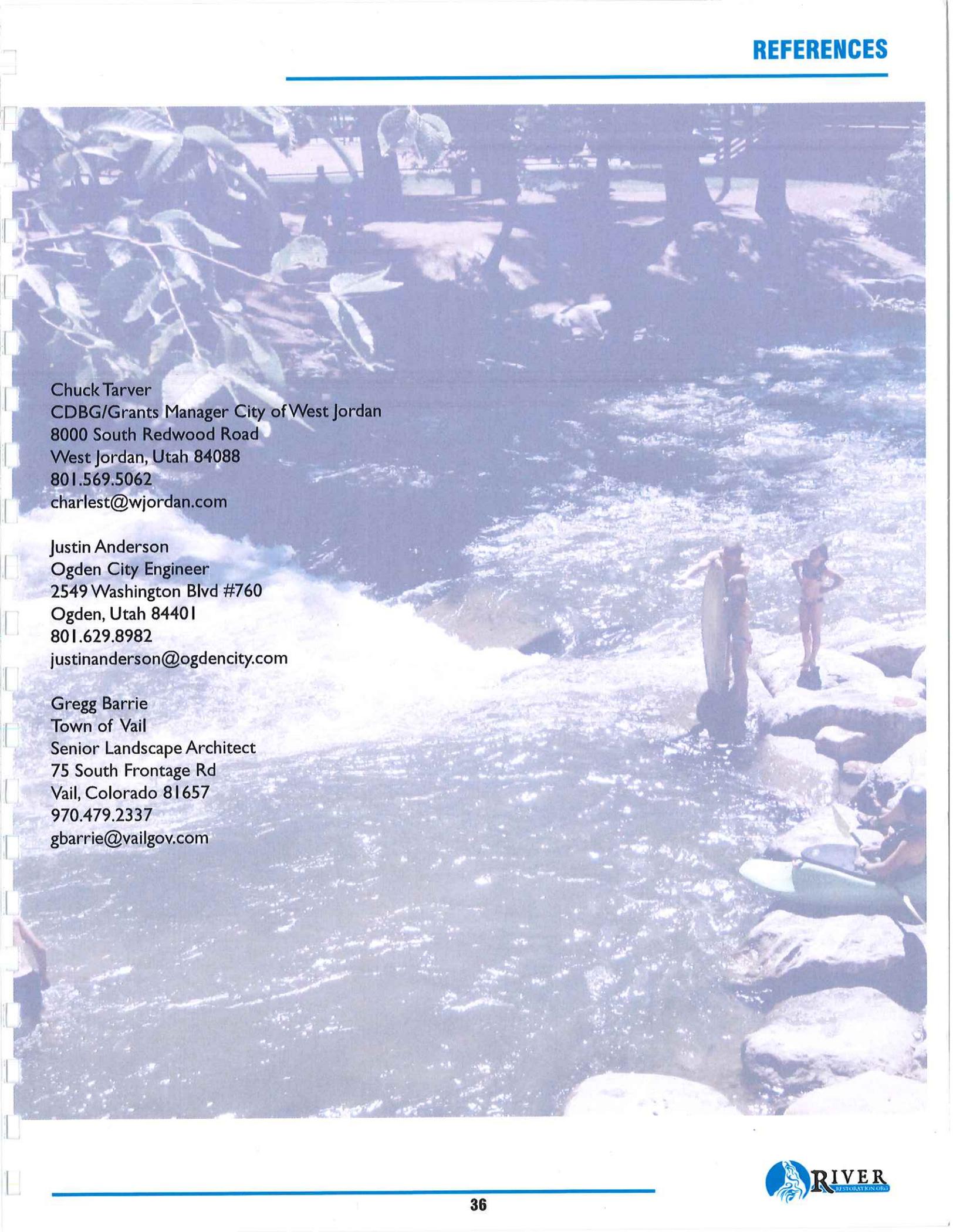
The attendees of the ribbon cutting ceremony pictured in front of the new whitewater feature. Representatives from Grand, Eagle, and Summit counties, American Whitewater, the Colorado Water Conservation Board, the Bureau of Land Management, US Forest Service, and many others were in attendance.

A wave feature on river left was designed to be separated from a boat and fish passage channel on the right. The existing fishery provides some of the best fishing in the state. Close coordination with Colorado Parks and Wildlife ensured the protection and even improvement of the fish habitat in this stretch. Since construction completion, fishermen have been seen fishing the installed habitat boulders both up and downstream of the feature. The site is a popular put-in for both commercial and private boaters on a fun class II-III stretch. Allowing safe passage for those boaters putting on upstream was

necessary. The passage channel to allow for downstream drift other boat passage and upstream fish passage was critical to the design and approvals. The whitewater park design incorporated habitat friendly elements, such as no grouted boulders. This maintains small alcoves and eddies for fish to use when migrating upstream.



After a last fine tune, the feature is tested and approved. ~1000 cfs



Chuck Tarver
CDBG/Grants Manager City of West Jordan
8000 South Redwood Road
West Jordan, Utah 84088
801.569.5062
charlest@wjordan.com

Justin Anderson
Ogden City Engineer
2549 Washington Blvd #760
Ogden, Utah 84401
801.629.8982
justinanderson@ogdencity.com

Gregg Barrie
Town of Vail
Senior Landscape Architect
75 South Frontage Rd
Vail, Colorado 81657
970.479.2337
gbarrie@vailgov.com



**City of Glenwood Springs
Office of the Mayor**

July 26, 2010

To Whom It May Concern:

The City of Glenwood Springs is pleased to write in reference to Jason Carey and his company, River Restoration. Our community is fortunate to be situated at the confluence of the Roaring Fork and Colorado Rivers and has historically seen its rivers as a very important part of the community. During the early part of the last decade the community began to consider expanding the recreational use of the rivers both as a means to stimulate increased awareness of their importance environmentally and socially as well as to explore the economic benefits of attracting increased numbers of whitewater enthusiasts. The City retained Jason in 2006 to design and oversee the construction of our Whitewater Park, which is located on the main stem of the Colorado River. This project posed many technical challenges due to the variations in flow that range from very low to as high as 29,000 cfs. Jason and his staff were able to successfully design a feature that functions very well at a broad range of river flows, can be used year around, and is now considered one of our community's greatest assets.

Jason not only possesses the technical skill to design an outstanding facility, he also is able to work successfully with community and citizen's groups who may both support or challenge a project. In our case, this was especially important to the success of the project. As a result of Jason's expertise and skill, we have been able to create a park that has gained international renown as one of the best whitewater features in the world.

Sincerely,

Bruce Christensen, Mayor



BOARD OF COMMISSIONERS

JAMES L. NEWBERRY
District I, Winter Park 80482
NANCY STUART
District II, Granby 80446
GARY BUMGARNER
District III, Kremmling, 80459

E-Mail: grndcty1@co.grand.co.us
PHONE: 970/725-3347
Fax: 970/725-0565
LURLINE UNDERBRINK CURRAN
County Manager
ANTHONY J. DICOLA
County Attorney

March 27, 2012

Jason Carey, P.E.
RiverRestoration
P.O. Box 2123
Glenwood Springs, CO 81601-2123

Re: C.W.C.B.

Dear Jason:

Thank you for the excellent work you did in helping prepare Grand County's application for our RICD and for being present during the C.W.C.B. meeting. Your expertise and experience with RICDs is a great benefit to Grand County. Thank you for your assistance.

Sincerely,

Nancy Stuart
Commissioner Chairman

James L. Newberry
Commissioner

Gary Bumgarner
Commissioner

NS:ke



1309 Elkhorn Drive
Vail, Colorado 81657
970-479-2158
Fax: 970-479-2166
www.vailgou.com

Department of Public Works & Transportation

September 1, 2010

To Whom It May Concern;

Over the past four years, I have had several opportunities to work with Jason Carey and his staff at RiverRestoration.org. On each project, I have been impressed with their friendly and professional attitude, their enthusiasm towards the project and, most importantly, the level at which they work to address project goals.

Jason's understanding of the hydraulic and ecological processes in river systems helps to provide solutions to both the obvious and underlying aspects of any project need. An example of this is in a recent stream bank stabilization project. The obvious solution to the eroded bank was to armor the bank and reestablish the vegetation. However, Jason's recommendation to add in-stream boulder weirs will provide for the long-term protection of the stream bank while at the same improving the aquatic habitat in our Gold Medal trout stream.

While working on Vail's Whitewater Park Enhancement project, RiverRestoration.org coordinated the use of progressive technology to design the world's first adjustable whitewater feature in a natural stream. The project has gone on to receive industry wide interest and has become the centerpiece of the Teva Mountain Games, an annual event that draws over 40,000 people to Vail during a three-day period in June.

Based on my experiences, I would recommend the services of RiverRestoration.org.

Sincerely,

Gregg Barrie
Landscape Architect, Town of Vail

ORMOND CONSTRUCTION INC.

Willard, Utah

To whom it may concern.

My name is Clint Ormond and I have been asked for a letter of recommendation for River Restoration .Org. I have worked for Ormond Construction for the last twenty years. I am currently a project manager and production coordinator. Ormond Construction is a general contractor in northern Utah that specializes in earthwork, pipe line work, and grade work. I have been working on the Ogden River Restoration Project with River Restoration.Org's Jason Carey and Crystal Young for over two years, since January 2009. The project involves removing litter, debris, concrete, and overfill from the banks of the Ogden River, replacing the concrete with boulders and/or restoring slopes that can be protected with native riparian vegetation, adding riparian storm water return areas, and building trails and paths to facilitate public access to the river for recreation.

The thing that stands out most in my mind about the people at River Restoration and their designs for me is that the designs are balanced. Many engineers try to make rivers into concrete or boulder lined canals. River restorations design uses hard boulder work where necessary but also uses soft landscape whenever possible to provide erosion protection. By using gentle sloping banks with vegetation instead of steep hard banks the design allows for a much more aesthetically pleasing and useful area, but also dissipates energy along the banks. Crystal and Jason continue to impress me with their knowledge concerning the hydraulic forces at work in the river, but even more with their knowledge concerning the ecosystem that relies on the river. They approach each individual section with an approach that stabilizes the banks while still providing an environment for plants and habitat for the animals along the river. Their designs are well thought out without being excessively complicated. Both Crystal and Jason would take the time to explain to our personnel why the work needed to be done in a specific way, helping them understand the function of the features. The fact that they would talk to our crews instead of talking down to them helped with morale, improved the crew's sense of pride in their work, and ultimately improved the overall quality of the project. They aren't afraid to get wet or dirty, I have seen both of them put on chest waders and wade into waist deep freezing waters in the middle of winter to help verify grades or ensure that in channel features are constructed solidly enough to withstand high velocities they will be exposed to. Jason and Crystal were open to suggestions and would modify the design facilitate construction whenever needed and were always available to provide clarification or more detailed drawing whenever we needed them.

The restoration work was tested beyond design capacities in the spring of 2010 with river flows that exceeded the 100 flood levels by more than 10% for more than a month straight. Even though the vegetation hadn't time to establish the specified temporary measures and channel/ bank design withstood the flood level flows with a very minimal damage, most of which was due to large trees that were blown down in very high winds in the same spring. The city storm water personal noticed that the new channel handled the very high flows much better than the old one did, the areas that used to be a concern with flows toping the banks were now safely below the top of bank by a comfortable margin. The Ogden river corridor used to be an eyesore but now it is becoming a popular place for outdoor photography.

I am proud to have been a part of the Ogden River Restoration project and look forward to working with Jason, Crystal, and the rest of River Restoration.Org's people again. If I can be of further assistance feel free to call or Email me.

Sincerely,

Clint Ormond

Email [oci.clint@gmail](mailto:oci.clint@gmail.com).

Cell (435)230-0745

Fax (435)363-0321



Department of Public Services
Division of Engineering
Justin Anderson P.E.
City Engineer

RiverRestoration.org
P.O Box 2123
Glenwood Springs Co. 81602

July, 5, 2012

Attention: Jason Carey P.E.

Ogden River Restoration Project

This letter is to commend RiverRestoration.org Staff for their work on the Ogden River restoration Project.

The Ogden River Restoration Project is a multifaceted, 5.8 Million Dollar, project that implements river restoration measures to improve stream health functions in a 1.1 mile stretch of the Ogden River. The Project Purpose is to construct in-stream habitat features and restore riparian, aquatic, geomorphic, and channel functions along a blighted section of the Ogden River thereby improving river health. This is accomplished by enhancing the riparian corridor, modifying the channel, creating interior floodplains, stabilizing banks, installing stormwater finishing areas, creating wetlands, removing extensive concrete and litter and installing concentrated recreation pathways.

As Project Manager for Ogden City on the project, I have found the design work exemplary, the assistance of Staff "on site" in the construction phase, working with the Contractor and myself, very knowledgeable, they have been receptive and responsive to suggestions on design changes and enhancements, and very professional in the coordination efforts in working with the agencies and private sector in securing the full funding of the project.

Ogden City has been fortunate to be able to secure full funding of the project and RiverRestoration.org has played a large part in that effort by presenting the project and it's benefits to individuals and Organizations.

Based on the work on the Ogden River Project, I would recommend them highly on other similar projects.

A handwritten signature in black ink that reads "Frank J. Hammond". The signature is fluid and cursive, with a large, looping initial "F".

Frank J. Hammond, Principal Engineer

Ogden City Engineering

801-629-8992

Fax 801-629-8994



24412 Hwy 13
Elkader, Iowa 52043
PH: (563) 245-1442
FAX: (563) 245-1443

Moving the Earth Today for a Better Tomorrow

To whom it may concern:

My name is Randy Waterman and I have been asked for a letter of recommendation for River Restoration.org. I have worked for C. J. Moyna and Sons, Inc. for the past 5 years. I am currently a part time Project Coordinator after retirement from the Ia. Depart. of Transportation after 40+ years in Highway and Bridge Construction Inspection. C. J. Moyna and Sons, Inc. is an Earth Moving / Rock Quarrying General Contractor from Northeast Iowa.

Jason Carey and his firm RiverRestoration were the project engineers for the Elkader Small Dam Modification project on the Turkey River for the City of Elkader, Iowa. C. J. Moyna and Sons, Inc. was the General Contractor for this project.

The project was innovative and complicated. The plans were clear and accurate, which was of great help since this was are first project of this type and with Jason being on site during the critical stages of the project was very helpful. Jason communicated well with the suppliers, equipment operators, construction managers and quickly solved problems and answered questions with reasonable and straight forward logic. The project was constructed in a timely manner, within budget and without design induced delays. I would recommend RiverRestoration for your river design projects and we would look forward to constructing more of their projects.

Sincerely,

A handwritten signature in black ink that reads "Randy Waterman". The signature is written in a cursive style.

Randy Waterman
Project Coordinator
rwaterman@cjmoyna.com
Cell (563)880-2951

September 1, 2010

To Whom It May Concern:

I am pleased to recommend River Restoration as an ideal choice for any river design project. Five years ago, the Ogden River was an abused and trashed eyesore. Our investments in Ogden were centered on the river. I could not believe the neglect and I knew that the improving the river was the key to success in Ogden. River Restoration worked closely with us to develop a vision, explain the details, get the community support, and to find the funding to complete the 5 million dollar project.

In 2007 we teamed with Ogden City to bring Robert F. Kennedy Jr. to Utah to express the importance of river restoration to the community. Mr. Jason Carey led the tour and presented the vision with Mr. Kennedy and myself to a crowd of more than five hundred. This energized the whole community. Mr. Carey worked directly with Utah Senators, contacts in Washington D.C. and the Corps of Engineers to gain Federal support and nation wide press for the project. Mr. Carey guided the project through local and state funders and we were finally able to break ground in January of this year.

My success comes in part from surrounding myself with visionary people. Mr. Carey and his team at River Restoration have that vision and I am happy to work with them. I am fully confident in Mr. Carey's professionalism and ability to solve complex projects. The results that have been achieved in Ogden are an amazing transformation and could not have been accomplished without the vision and know-how of River Restoration.



Mr. Gadi Leshem
Ogden River Development



21004 Nordhoff Street
Suite D
Chatsworth, CA 91311
818-688-5005

MEMO

To: City Council
From: Glen L. Black *GLB*
Date: June 15, 2015
Subject: Zoning Amendment/Rezone
Westwinds PUD, Hawkins Commercial Lot 1 and 2



Community Development

Recommendation: Consider the Planning Commission recommendation of approval of the zoning amendment request for Westwinds PUD, Hawkins Commercial Lot 1 and 2, from B-2 to B-3

Background: On April 4, 2016, Planning Commission held a Public Hearing to review a Zoning Amendment/Rezone Request for Westwinds PUD, Hawkins Commercial Lot 1 and 2, from B-2 to B-3. The Planning Commission has made a recommendation to the City Council to approve the zoning amendment. Per City Code 17.04.290.H.1, "The Council may without further review implement such recommended change by adoption of a rezoning ordinance or take no action if no change is recommended, unless an appeal is filed as set out below, or it may decide in its discretion to hear the matter de novo as set out in Subsection (3) below."

Cost: Publication of the ordinance.

Alignment With Strategic Planning: The applicant has made the case that the original zoning was erroneous. The Plat did show a fuel storage facility located on the lot.

Actions To Be Taken: Accept the recommendation of the Planning Commission and consider the ordinance on first reading or set a de novo hearing.



March 17, 2016

City of Delta
Community Development
360 Main Street
Delta, CO 81416

Re: Zone Change Request for Westwinds Residential Air Park

Staff;

On behalf of the owner I am writing this request to change the zoning of the Hawkins Commercial Lots 1 & 2 as shown on the Westwinds Residential Air Park PUD plat recorded at Reception No. 482869. These lots are currently zoned B-2 and we are requesting that they be rezoned to B-3. The reason for this request is to allow the owner, Rich Burdick, to operate his business on these lots, which includes maintenance and repair of airplanes. One of the main reasons for this requested change has to do with fueling the airplanes. The current B-2 zoning doesn't allow for fuel tanks while the B-3 zoning will. Also with Mr. Burdick's business a B-3 zoning will be more compliant.

This requested amendment is not adverse to the public health, safety and welfare and will actually allow the existing airport to function as it was intended. This is an area that was already set aside for commercial/business uses and is separated from the residential portion of this subdivision. The owners of the residential lots who own airplanes will benefit from this zoning change and the ability to fuel their planes onsite.

It is our opinion that these lots were incorrectly zoned when they were annexed into the City. On the original plat it clearly shows on Hawkins Commercial Lot 1 that there is a "Future Fuel Farm" planned. These lots should have been given a B-3 zoning to allow for this future fuel farm but instead they were zoned B-2. Also the majority of the properties zoned business along Highway 50 north of Delta are zoned B-3. This would bring this property into conformance with the rest of these properties.

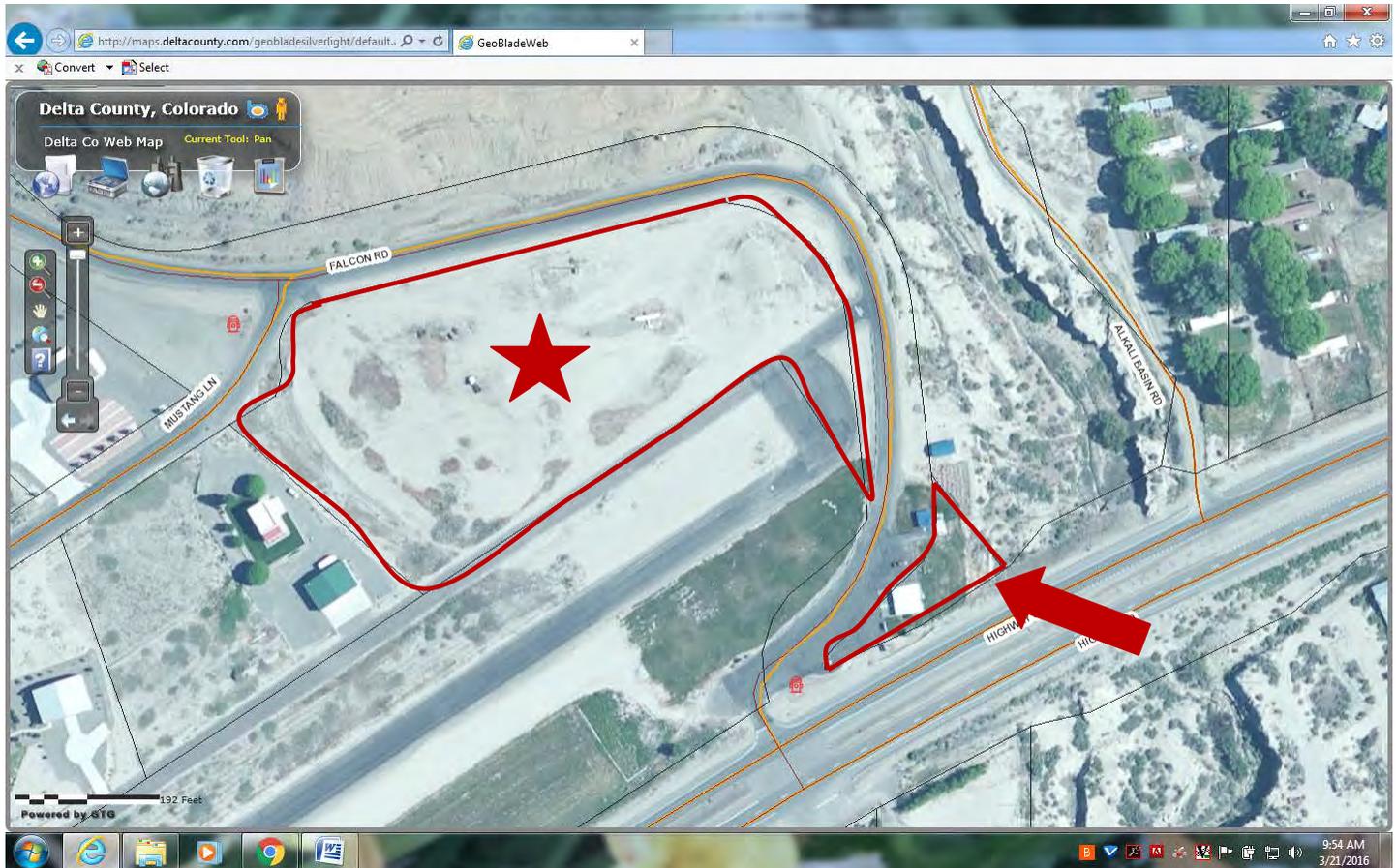
In conclusion it is our belief that this request meets the criteria for a zoning change based on the above mentioned items. Please feel free to contact me with any questions.

Sincerely,

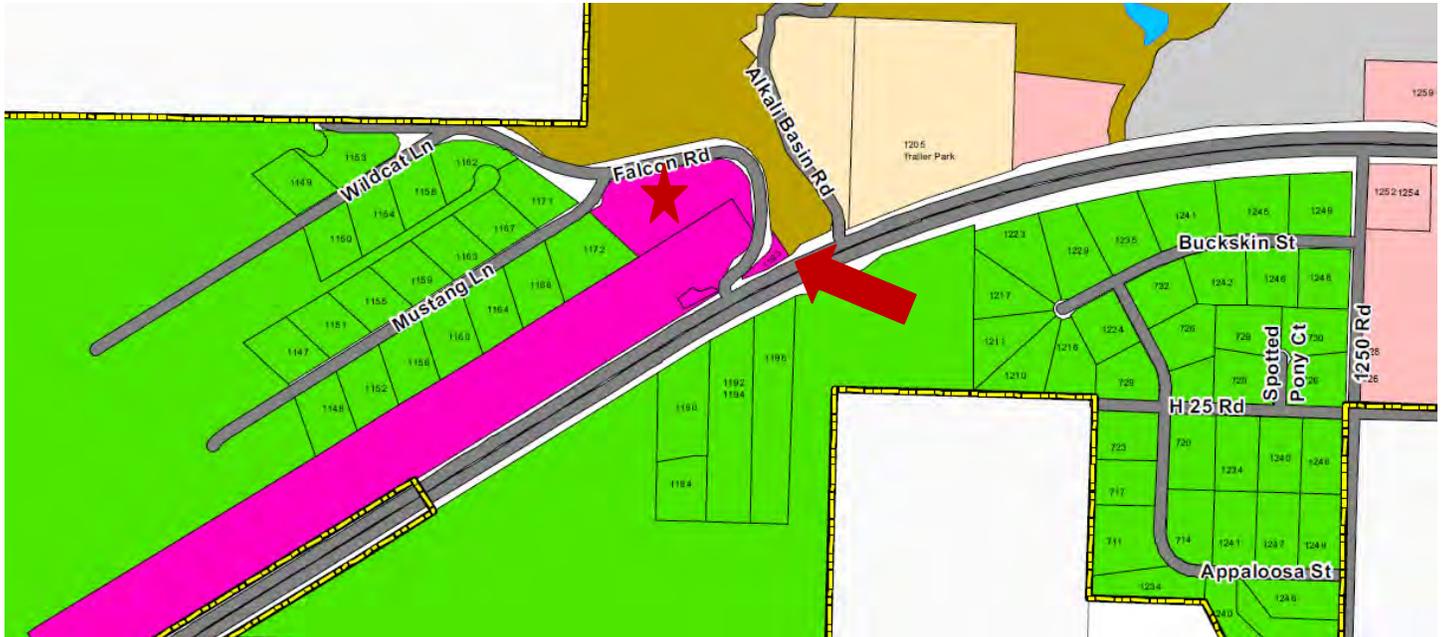
A handwritten signature in blue ink, appearing to read 'Nick Barrett', is written over a large, stylized blue scribble.

Nick Barrett, PE/PLS

Aerial Photo



Zone Map



Ordinance No. 4, 2016

AN ORDINANCE OF THE CITY OF DELTA, COLORADO, AMENDING THE ZONING DESIGNATION OF WEST WINDS PLANNED UNIT DEVELOPMENT, HAWKINS COMMERCIAL LOTS 1 & 2 FROM B-2 TO B-3

WHEREAS, the owners of WEST WINDS PLANNED UNIT DEVELOPMENT, HAWKINS COMMERCIAL LOTS 1 & 2 located in Delta, Colorado have applied for rezoning of their property to a designation that will allow for additional business uses on the parcels; and

WHEREAS, the City of Delta's Planning Commission, following a proper hearing of the rezoning application, has recommended that the zoning classification for the property be changed, as requested, from the present designation of B-2 to a new designation of B-3; and

WHEREAS, the Delta City Council finds that the requested zoning change will not be adverse to the public health, safety and welfare and that the previous zoning was erroneous. Therefore, as previously determined by the City Planning Commission, the requested zoning amendment meets the criteria for zoning changes set forth in Delta Municipal Code Section 17.04.270.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF DELTA, COLORADO, as follows:

Section 1. The zoning designation for the property in the City of Delta, Colorado that is specifically described as WEST WINDS PLANNED UNIT DEVELOPMENT, HAWKINS COMMERCIAL LOTS 1 & 2 FROM B-2 TO B-3.

Section 2. The official zoning map of the City shall be amended as soon as practicable to reflect the zoning change for the subject properties as approved by this ordinance.

ADOPTED ON FIRST READING AND ORDERED PUBLISHED this ____ day of _____, 2016.

Mayor

ATTEST:

City Clerk

ADOPTED ON SECOND AND FINAL READING AND ORDERED PUBLISHED this ____ day of _____, 2016.

Mayor

ATTEST:

City Clerk

MEMO

To: Mayor & City Council
From: Wilma Erven, Parks and Recreation Director Wilma Erven
Date: April 13, 2016
Subject: Weed Abatement Agreement



Parks & Recreation

Recommendation:

Staff is recommending that the Weed Abatement Agreement be awarded to Fedler Spraying LLC of Delta, CO. in the amount of \$26,500 for 2016 and 2017.

Background:

Weed abatement was done in 2015 by the Parks Department. Staffing and completing the project in the manner that needs to be done, especially during a heavier rain type summer, was very difficult for the Parks Department. During the budgeting process the decision was made to put the bid out to the community spraying companies for a two year contract, with a budget of \$30,000 per year.

The bid requests ask for two separate bids, one including all of the highways and the second excluding all highways. Due to the bids with highways included being over the budget, staff is recommending that we proceed with the bid for excluding highways. The highways will continue to be mowed by the Parks Department.

Staff received two qualified bids for this project. A third bid was received that did not fill the qualifications of the bid. The two qualifying bids were:

Fedler Spraying LLC, Delta, CO	\$26,500 – 2016	\$26,500 – 2017
Pest Away Spraying, Delta, CO	\$26,500 – 2016	\$27,250 – 2017

Cost:

The project with Fedler Spraying LLC would be \$26,500 for 2016 and 2017.

Alignment with Strategic Planning:

According to the City Code all weeds within the City of Delta will be kept at 6 inches or less.

Actions To Be Taken if Approved:

Upon approval of City Council, the Notice of Award will be processed. A contract will be developed for the City Managers signature and the Notice to Proceed will be awarded.

Fedler Spraying LLC

Paul and Jon Fedler
13951 25 Mesa Road
Delta, Colorado 81416
970-874-7450

March 31, 2016

City of Delta
Attn: Tony Bohling
531 N Palmer Street
Delta, CO 81416

Proposal for City of Delta Weed Control:

This Proposal for weed control in the City of Delta will include the bid amounts for 2016 and 2017, a list of equipment we will use, how the areas will be treated and what chemicals will be used.

Bid for Exhibit A (includes highways)

2016	\$44,500
<u>2017</u>	<u>\$44,500</u>
Total	\$85,000

Bid for Exhibit A alternate (does not include highways)

2016	\$26,500
<u>2017</u>	<u>\$26,500</u>
Total	\$53,000

Equipment List:

Several different mowers and Sprayers will be used depending on the area and what is deemed the safest and most effective. The mowing equipment which we will use is:

- Extendable Rhino side mower, mounted on a John Deere 5410
- 3 point pull behind mower mounted on a John Deere Tractor
- 48 inch pull behind self powered ATV mower
- Stihl weed wackers

All of the spray work will be done by Qualified Supervisors licensed by the Colorado Department of Agriculture. Several different sprayers will be used. The best sprayer for the job will be chosen at the time of application. The Sprayers we have available for use are as follows:

- Pickup skid mounted sprayer with handguns, hose reels and boomless booms
- 6x6 ATV mounted sprayers with handguns hose reels and booms
- 6x6 Ranger mounted sprayers with handgun hose reel and booms
- Hagie agricultural sprayer with 90 foot booms

Chemicals to be used:

The chemicals that will most likely be used will be Milestone, Escort, Roundup Power Max, and 2-4 D Amine. I have included the MSDS sheets for these chemicals and if any other chemicals are used I will supply MSDS sheets to the proper personnel.

The extra work charges, license information, and insurance papers are included. If any further papers or insurance information is needed we will supply them to you upon winning the bid.

A handwritten signature in black ink that reads "Jon Fedler". The signature is written in a cursive style with a large, stylized "J" and "F".

Jon Fedler
Fedler Spraying, LLC

Pest Away Spraying

CITY OF DELTA RFP Weed Control 2016 and 2017

Bid Proposal—Pest Away Spraying, Owner-Weylin Johnson, 874-4841

As per request, the following chemical sprays recommended :

1. Glystar Plus
2. Alligare
3. Mec-Amine D (generic brand 2-4-D broadleaf)

MDS sheet notebook provided upon awarded contract

Mowing Equipment/Mechanical means

1. Flail mower/tractor
2. Brush hog rotary/tractor
3. Push mowers
4. Weed eaters—String and/or blade

Bid Amounts:

1. 2016 Exhibit A (including highways/medians per map) \$32,000
2. 2016 Alternate (Excluding Hwy 50 North/South Hwy 92) \$26,500
3. 2017 Exhibit A (including highways/medians per map) \$33,500 (increase for chem/oil price)
4. 2017 Alternate (Excluding Hwy 50 North/South Hwy 92) \$27,250 (increase for chem/oil price)

Total for 2 year including Highways \$61,500

Total for 2 year excluding Highways \$50,250

Additional work: Mowing/Tractor \$70.00 per hour Spraying: \$70.00 per hour plus chemical/material.

All Licenses, liability insurances, auto insurance coverages, MDS sheets and other required documentation will be provided upon award of contract.

Thanks, we look forward to working with you.

Weylin Johnson--Pest Away Spraying



Whereas, In 1872, J. Sterling Morton proposed to the Nebraska Board of Agriculture that a special day be set aside for the planting of trees, and

Whereas, this holiday, called Arbor Day, was first observed with the planting of more than a million trees in Nebraska, and

Whereas, Arbor Day is now observed throughout the nation and the world, and

Whereas, trees can reduce the erosion of our precious topsoil by wind and water, cut heating and cooling costs, moderate the temperature, clean the air, produce life-giving oxygen, and provide habitat for wildlife, and

Whereas, trees are a renewable resource giving us paper, wood for our homes, fuel for our fires and countless other wood products, and

Whereas, trees in our city increase property values, enhance the economic vitality of business areas, and beautify our community, and

Whereas, trees, wherever they are planted, are a source of joy and spiritual renewal.

Now, Therefore, I, _____, Mayor of the City of
_____, do hereby proclaim
_____ as

Arbor Day

In the City of _____, and I urge all citizens to celebrate Arbor Day and to support efforts to protect our trees and woodlands, and

Further, I urge all citizens to plant trees to gladden the heart and promote the well-being of this and future generations.

Dated this _____ day of _____
Mayor _____

Items: O'U' V

Attorney Comments



City Manager Comments



Councilmember Comments

