



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 721
Denver, CO 80203

April, 1, 2015

Upper Yampa Water Conservancy District
Mr. Kevin McBride, General Manager
P.O. Box 75529
Steamboat Springs, CO 80487

**RE: Notice to Proceed – WSRA Grant – Upper Yampa Water Conservancy District
Master Plan Modeling in the Yampa River Basin**

Dear Mr. McBride:

This letter is to inform you that the purchase order for the WSRA grant to assist in the Upper Yampa Water Conservancy District Master Plan Modeling in the Yampa River Basin was approved on April 1, 2015.

With the executed purchase order, you are now able to proceed with the project and begin invoicing the State of Colorado for costs incurred through February 1, 2016. Please provide the project name, contract or purchase order number, and basin when corresponding with or invoicing the State of Colorado for your project. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 45 days after review and signed approval by the project manager. I wish you much success in your project.

Sincerely,

/s/

Craig Godbout
Program Manager
Colorado Water Conservation Board
Water Supply Planning Section
1313 Sherman St, Rm. 721
Denver CO 80203
(303) 866-3441, ext 3210 (office)
(303) 547-8061 (cell)
[*craig.godbout@state.co.us*](mailto:craig.godbout@state.co.us)

Attachments





STATE OF COLORADO
Department of Natural Resources

ORDER		** IMPORTANT **				
Number: POGG1 PDAA 20150000000000000256		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 04/01/15						
Description: PDAA 2500 WSRA UYWCD MODELING PROJECT BASIN		BILL TO COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Effective Date: 04/01/15 Expiration Date: 02/01/16						
BUYER		SHIP TO				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
VENDOR		SHIPPING INSTRUCTIONS				
UPPER YAMPA WATER CONSERVANCY DIST PO BOX 775529 STEAMBOAT SPRINGS, CO 80477-5529		Delivery/Install Date: F.O.B: VENDOR INSTRUCTIONS:				
Contact: .						
Phone: 9708792424						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$25,000.00	<input type="checkbox"/>
Description: PDAA 2500 WSRA UYWCD MODELING PROJECT BASIN						
Service From: 04/01/15 Service To: 02/01/16						
TERMS AND CONDITIONS https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$25,000.00						

Exhibit A
Statement of Work

WATER ACTIVITY NAME – Upper Yampa Water Conservancy District Master Plan Modeling

GRANT RECIPIENT – Upper Yampa Water Conservancy District

FUNDING SOURCE – Yampa White Green Basin funds

INTRODUCTION AND BACKGROUND

Provide a brief description of the project. (Please limit to **no more than 200 words**; this will be used to inform reviewers and the public about your proposal)

The Upper Yampa Water Conservancy District (UYWCD) is requesting a \$25,000 grant for further development of the Yampa River CDSS model used in the Roundtable's "Projects and Methods (P&M) Study". This is needed in order to refine proposed projects and their operations as discussed in the Draft Basin Implementation Plan (BIP). The total cost of the detailed UYWCD modeling effort is estimated at \$50,000. The Roundtables P&M study used StateMod/CDSS to evaluate river operations on the Yampa and White Rivers in order to increase the understanding of how the rivers might operate under various weather conditions, growth scenarios, and under strict administration. The current reports from the study make it clear that the hydrologic situation, water rights and their administration, proposed storage projects and their operation interact in complex ways to control the consumptive and non-consumptive uses of the rivers. In order to have the outcomes of proposed projects meet needs suggested in the draft BIP it will be important to develop local capacity to evaluate these operations. Developing this capacity locally, within the UYWCD, is the goal of this grant request.

OBJECTIVES

List the objectives of the project

The UYWCD has spent well over \$100,000 itself in the initial development of the Yampa River CDSS model as part of phase I of its master planning effort. The Roundtable spent over \$200,000 on modeling through the P&M study. The UYWCD also contributed over \$10,000 to keep the AMEC and the BIP process moving forward as the Roundtable awaited final contract approval of the Roundtables BIP consultant (AMEC) by the State of Colorado. We think it is important to continue to refine this model and develop capacity for its use in within the UYWCD to leverage the funds already spent.

TASKS

Provide a detailed description of each task using the following format

TASK 1 - In house consultant modeling

Description of Task

Operation of CDSS input and output files for the modeling of the Yampa River System with specific parameters of hydrology, reservoir operations, and administration for existing and proposed projects. This analysis will include reservoirs, new consumptive and nonconsumptive uses. Evaluate output for meeting objective in the BIP for the YWG. Iterate on outcomes to optimize results.

Method/Procedure

Statemod, TS tools, newly created spreadsheets

TASK 2 – Legal review

Description of Task

Review operations of modeling output with respect to existing absolute, conditional and potential new water right filings. Work with modeling team on design of and subsequent analysis of modeling runs.

Method/Procedure

TASK 3 – External engineering review/support

Review and provide advice on parameters of modeling input and analysis of output including water administration and accounting of the Districts water rights portfolio.

Description of Task

Work with District modeling personnel on all aspects of modeling input and output analysis.

Method/Procedure

Review of items in Task 1, District water accounting spreadsheets

TASK 4 – Final report

Description of Task

Prepare a summary of modeling findings.

Method/Procedure

Deliverable

The model will be used to evaluate various alternatives for current and future proposed projects, evaluate water right(s) and their administration (both absolute and conditional) during a range of hydrologic conditions. The outcome of this effort will be used in project planning of the proposed reservoir at the confluence of Morrison and Silver Creeks, and other projects within the UYWCD. We will also include an evaluation of the water rights necessary to support projects and preliminary report of the potential operations of the reservoir to meet objectives outlined in the draft goals section of the Yampa/White/Green BIP.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

Personnel:	Modeling Consultant	Legal	Engineer		Total Costs
Hourly Rate:	\$40	\$200	\$125		
Task 1 – In house consultant modeling	625 hrs.				\$25,000
Task 2 – Legal review		25 hrs.			\$5,000
Task 3 - External review/support			80 hrs.		\$10,000
Task 4 – Final report			80 hrs.		\$10,000
Total Hours:	625	25	160		
Cost:	\$25,000	\$5,000	\$20,000		\$50,000

Budget for UYWCD Master Plan Modeling

Task	Non-WSRA Funds	WSRA Funds	Total
1		\$25,000	\$25,000
2	\$5,000		\$5,000
3	\$10,000		\$10,000
4	\$10,000		\$10,000
Totals	\$25,000	\$25,000	\$50,000

SCHEDULE

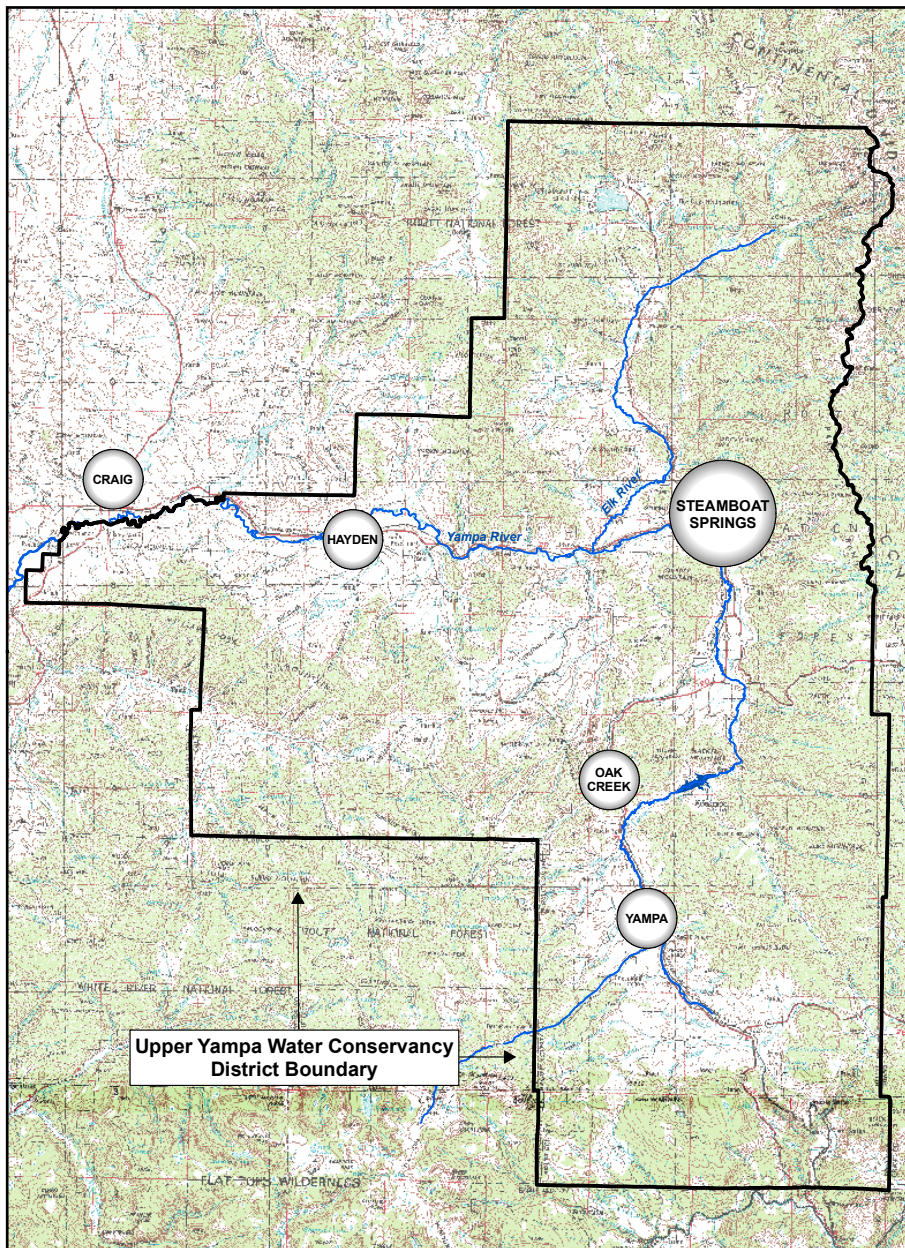
Provide a project schedule including key milestones for each task and the completion dates or time period from the Notice to Proceed (NTP). This dating method allows flexibility in the event of potential delays from the procurement process. Sample schedules are provided below. Please note that these schedules are examples and will need to be adapted to fit each individual application.

Task	Start Date	Finish Date
1	Upon NTP	NTP + 120 days
2	Upon NTP	NTP + 180 days
3	Upon NTP	NTP + 180 days
4	Upon NTP	02/01/16

NTP = Notice to Proceed

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.



Source: USGS 250k Map

Upper Yampa Water Conservancy District