



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

July 22, 2015

Rural Water Authority of Douglas County
Attn: Mr. Barry Gager, Chairman
P.O. Box 4610
Parker, CO 80134

RE: Notice to Proceed - WSRA Grant – Rural Well Monitoring in Douglas County

Dear Barry,

This letter is to inform you that the purchase order to assist in the Rural Well Monitoring in Douglas County in the Metro River Basin was approved on July 22, 2015. The original PO and exhibits are attached.

With the executed purchase order, you are now able to continue with the project and invoice the State of Colorado for costs incurred through September 30, 2017 as indicated in the Exhibit A schedule. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 30 days.

If you have any questions or concerns regarding the project, please contact me.

Sincerely,

//s//

Craig Godbout
Program Manager
Colorado Water Conservation Board
Water Supply Planning Section
1313 Sherman Street, Suite 718
Denver CO 80203
 [\(303\) 866-3441, ext 3210](tel:(303)866-3441) (office)
 [\(303\) 547-8061](tel:(303)547-8061) (cell)
craig.godbout@state.co.us

Attachments





STATE OF COLORADO
Department of Natural Resources

ORDER		** IMPORTANT **				
Number: POGG1 PDAA 20160000000000000170		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 07/21/15						
Description: PDAA 2500 WSRA GW Monitoring network in Metro Basin		BILL TO COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Effective Date: 07/22/15 Expiration Date: 09/30/17						
BUYER		SHIP TO				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
VENDOR		SHIPPING INSTRUCTIONS				
RURAL WATER ATHRTY OF DOUGLAS CNTY PO BOX 4610 PARKER, CO 80134-1459		Delivery/Install Date: F.O.B: FOB Dest, Freight Allowed				
Contact: .		VENDOR INSTRUCTIONS:				
Phone: 3034821002						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$13,977.00	☐
Description: PDAA 2500 WSRA GW Monitoring Network in Metro Basin						
Service From: 07/22/15 Service To: 09/30/17						
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$13,977.00						

Statement of Work

WATER ACTIVITY NAME - Rural Douglas County groundwater-level monitoring network

GRANT RECIPIENT – Rural Water Authority of Douglas County (RWADC)

FUNDING SOURCE – USGS matching funds, CWCB Metro Basin Account, RWADC

INTRODUCTION AND BACKGROUND

This project established a county-wide groundwater-level monitoring network in 2011 for the long-term monitoring of the water resources of rural areas of unincorporated Douglas County, Colorado. A scientific evaluation of groundwater resources in the Authority's service area has never been accomplished. In 2010, Douglas County estimated the population would grow from 293,521 residents to more than 444,784 by 2030. Some water providers in the county have surface-water rights, but their allocations do not provide enough water to satisfy the renewable supplies necessary to fulfill the existing water demands of the county. Development of the groundwater resources will continue to be necessary to meet the growing needs of the county.

Funding of this application would continue aquifer water level sampling for two more years. The ultimate goal of the project is to collect at least five years' data, for a more accurate representation of changes in the groundwater levels.

OBJECTIVES

The primary objective of this study is to continue monitoring the county wide groundwater-level monitoring network for two years (24 months), to eventually achieve long-term monitoring of the rural water resources of Douglas County, Colorado. The network consists of 36 wells throughout the county. Water levels measured from wells in the network will provide an assessment of the current water resource and provide the basis from which to monitor long-term changes of the hydrologic system.

TASKS

TASK 1 - Water- Level Measurements and Data Management

Description of Task Water levels in 36 wells (*Attachment C-Figure 1*) will be measured and recorded. Fifteen wells are equipped with pressure transducers and data recorders for continuous monitoring, from which data will be downloaded and a manual measurement taken triannually. The other 21 wells will be monitored manually, each year in February. This task includes reviewing the field data forms for accuracy, and entering the water level data into the U.S. Geological Survey's National Water Information System (NWIS) database.

Method/Procedure

Completion of this task is estimated to require 48 hours every fourth month to download data, measure water levels and perform data management and quality assurance procedures. After each round of water-level measurements, hydrographs will be produced and reviewed to ensure that the selected wells are providing reliable data.

Deliverable

Data log of water levels in selected wells. Data will also be published on the USGS National Water Information System Web site (NWISWeb).

TASK 2 - Report Preparation

Description of Task

A USGS Scientific Investigation Report (SIR) has been prepared, and is awaiting publication, to summarize the water-level monitoring results for the period of monitoring from inception in April 2011 through June 2013, per contract C150473. The publication of the report due for the first contract extension, scheduled for release by June 2015, will be delayed until June 2017 to include the data collected through October 2016. Any GIS data sets generated during the project will be provided to the RWADC as a deliverable from the USGS to the RWADC.

Method/Procedure

Preparation of report. This task is estimated to require 200 hours of labor.

Deliverable

SIR Report and any GIS data sets generated. All data will be available to the public on NWISWeb.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed/amended contract. The Progress Report shall describe the 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

Total Costs by Colorado Fiscal Year (CO FY)

	Labor	Other Direct Costs	Total Project Costs	USGS Matching Funds	RWADC	CWCB Grant to RWADC
Task 1 – CO FY15 Monthly water-level measurements and data management	\$8,340	\$2,448	\$10,788	\$5,394	\$2,697	\$2,697
Task 1 – CO FY16 Monthly water-level measurements and data management	\$15,139	\$3,128	\$18,267	\$9,133	\$4,567	\$4,567
Task 1 – CO FY17 Monthly water-level measurements and data management	\$1,570	\$1,060	\$2,630	\$1,315	\$658	\$658
Task 2 – CO FY17 Report preparation	\$24,227	\$0	\$24,266	\$12,113	\$6056	\$6055
Total Costs:	\$49,275	\$6,636	\$55,911	\$27,955	\$13,978	\$13,977

Total Costs by Federal Fiscal Year (FFY)

	Labor	Other Direct Costs	Total Project Costs	USGS Matching Funds	RWADC	CWCB Grant to RWADC
Task 1 – FFY15 Monthly water-level measurements and data management	\$8,871	\$1,929	\$10,800	\$5,400	\$2,700	\$2,700
Task 1 – FFY16 Monthly water-level measurements and data management	\$16,962	\$2,246	\$19,208	\$9,604	\$4,802	\$4,802
Task 2 – FFY17 Report preparation	\$23,442	\$2,461	\$25,903	\$ 12,952	\$6,476	\$6,475
Total Costs:	\$49,275	\$6,636	\$55,911	\$27,955	\$13,978	\$13,977

Water Supply Reserve Account – Metro Roundtable
Rural Well Level Monitoring in Douglas County
Rural Water Authority of Douglas County

SCHEDULE

Task 1: Water-level Monitoring

Start Date: Notice to Proceed

End Date: October 31, 2016

Task 2: Report Preparation

Start Date: Notice to Proceed

End Date: September 30, 2017

FUTURE WORK

Monitoring activities may be extended if additional funds are available before the completion of the proposed project extension. Additional monitoring beyond the period covered by this Application will require funds for another report publication. An additional 24 months (October 2016 through October 2018) of monitoring in the same manner is estimated to cost about \$60,000, plus substantial costs, estimated as \$20,000 for report preparation. At the current USGS Matching Funds rate of 50%, the USGS could match \$40,000 reducing the cost to others to \$40,000.

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.

Attachment B. Map of the Rural Water Authority's Service Area

Attachment C: