



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718  
Denver, CO 80203

April 9, 2015

North Fork Lateral Ditch Company  
Mr. Bill Kolb, President  
P.O. Box 460  
Hotchkiss, CO 81419

RE: Notice to Proceed - WSRA Grant – POGG1 2015-266 North Fork Farmers Ditch Slope  
Repair & Stabilization Project in the Gunnison River Basin

Dear Bill,

This letter is to inform you that the purchase order to assist in the above WSRA grant project was approved on April 9, 2015. This email serves as the original documentation for your records.

With the executed purchase order, you are now able to proceed with the project and invoice the State of Colorado for costs incurred through May 31, 2015. 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 30 days after review and signed approval by the project manager. I wish you much success in your project.

If you have any questions or concerns regarding the project, please contact me. You can contact Dori Vigil at 303-866-3441 ext. 3250 for invoicing and payment disbursement questions.

Sincerely,

//s//

**Brent Newman**

**Program Manager**

Water Supply Planning Section

O 303.866.3441 x3222 | C **303.681.8420**

1313 Sherman Street, Suite 723, Denver, CO 80203

[Brent.newman@state.co.us](mailto:Brent.newman@state.co.us)

[www.cwcb.state.co.us](http://www.cwcb.state.co.us) [www.coloradowaterplan.com](http://www.coloradowaterplan.com)





STATE OF COLORADO  
Department of Natural Resources

<b>ORDER</b>		<b>** IMPORTANT **</b>				
Number: POGG1 PDAA 20150000000000000266		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 04/09/15						
Description: PDAA 2500 WSRA NFD Slope Repair & Installation Basin		<b>BILL TO</b> COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Effective Date: 04/09/15      Expiration Date: 05/31/15						
<b>BUYER</b>		<b>SHIP TO</b>				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
<b>VENDOR</b>		<b>SHIPPING INSTRUCTIONS</b>				
NORTH FORK LATERAL DITCH CO PO BOX 490 HOTCHKISS, CO 81419		Delivery/Install Date: F.O.B: <b>VENDOR INSTRUCTIONS:</b>				
Contact: Bill Kolb						
Phone: 970-314-0255						
<b>Line Item</b>	<b>Commodity/Item Code</b>	<b>UOM</b>	<b>QTY</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>MSDS Req.</b>
1	G1000		0	0.00	\$35,000.00	<input type="checkbox"/>
Description: PDAA 2500 WSRA NFD Slope Repair & Installation Basin						
Service From: 04/09/15      Service To: 05/31/15						
<b>TERMS AND CONDITIONS</b> <a href="https://www.colorado.gov/osc/purchase-order-terms-conditions">https://www.colorado.gov/osc/purchase-order-terms-conditions</a>						
<b>DOCUMENT TOTAL = \$35,000.00</b>						

## **Exhibit A**

### **Statement of Work, Budget, Schedule**

**WATER ACTIVITY NAME – Ditch Slope Repair and Stabilization**

**GRANT RECIPIENT – North Fork Lateral Ditch Company**

**FUNDING SOURCE – Gunnison Basin Roundtable**

#### **INTRODUCTION AND BACKGROUND**

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

#### **TASK 1 – Engineering Study**

##### **Description of Task**

A topographic survey of the site will be performed by a Professional Surveyor and a geotechnical investigation will be performed by a geotechnical engineer. The geotechnical investigation will include two boreholes drilled to a depth of approximately 25 feet and laboratory testing necessary to estimate soil strength parameters. Slope stability software will be used to model possible stabilization methods for this area. Options that will be evaluated will include regrading the slope, installation of a vertical drain system, and the total removal and replacement of the failure area including a new chimney drain.

##### **Method/Procedure**

Proposals were solicited from engineering companies and a qualified team has been selected for the work.

- Project Engineer - Applegate Group, Inc,
- Geotechnical Study – Lambert and Associates
- Survey – Wilmore & Company Professional Land Surveying

##### **Deliverable**

Construction Plans and specifications for any required slope improvements.

## **TASK 2 – Construction**

### Description of Task

Construction of slope stability improvements will likely involve the removal of the failed slope and the construction of a gravel drain system similar to a chimney drain frequently installed in dam embankments. The final design will depend on the results of the geotechnical study from Task 1. The costs shown are estimated to be the maximum amount required should the entire slope need removed and replaced.

### Method/Procedure

Engineering plans and specifications from Task 1 will be used to solicit bids from contractors to construct any required improvements. Competitive bids will be obtained from at least 3 qualified contractors.

### Deliverable

Stabilized canal bank with drainage system as required.

## **TASK 3 – Ditch Piping**

### Description of Task

This task includes the installation of 120 feet of 36” pipe across the failure area. This pipe has already been installed and no WSRA funds are being sought for this task. Rather this task is included as matching funds provided by NFFD for the overall project.

### Method/Procedure

This pipe was installed in June 2014

### Deliverable

One hundred and twenty feet of installed 36” corrugated high density polyethylene pipe.

## **BUDGET**

The anticipated project budget is shown below. As mentioned previously bids have been solicited from engineering firms for work included in Task 1 and the budget shown below is based on those bids. The budget for Task 2 is an estimate based on the level of slope stabilization measures that are likely to be required. This number is subject to change based on the findings of the geotechnical investigation but the number in the table below represents a high estimate based on currently available information.

Task	Recipient Contribution	WSRA Gunnison Basin Funds	Colorado River District Grant	North Fork Water Conservancy District	Total
Task 1	\$11,000		\$2,600	\$2,500	\$16,100
Task 2		\$35,000	\$15,000		\$50,000
Task 3	\$14,215				\$14,215
<b>Total</b>	<b>\$25,215</b>	<b>\$35,000</b>	<b>\$17,600</b>	<b>\$2,500</b>	<b>\$80,315</b>

## SCHEDULE

The schedule for this project is focused on completing the majority of the construction activities prior to the canal turning on in mid-April.

- Gunnison Basin Roundtable Approval      January 5, 2015
- Survey and Geotechnical Investigation      February 16, 2015 – February 20, 2015
- Engineering Analysis & Design      February 23, 2015 - March 6, 2015
- Final Grant Approval      March 19, 2015
- Bidding      March 9, 2015 – March 13, 2015
- Construction      NTP – May 31, 2015



## Legend

North Fork Farmers Ditch

## Irrigated Area

North Fork Farmers Ditch

Highway

North Fork Farmers Ditch

Location of Slope Failure

Location of Slope Failure

Impacted Building

Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN,

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swiss topo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



Water Resource Advisors for the West  
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Denver, CO 80234-2728 Fax: (303) 452-2759  
www.ApplegateGroup.com e-mail: info@applegategroup.com

## Exhibit B

### North Fork Farmers Ditch 2014 Slope Failure

Date: Nov 24, 14

Job #:

Drawn By: CMU

Figure:

1

Of:

1



## Exhibit C

### Photos



