



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

December 27, 2017

Lisa M.W. Eldred
909 York Street,
Denver, CO 80206

RE: CWP GRANTS - OFFICIAL NOTICE TO PROCEED - [POGG1 PDAA 201800000603] -
[Denver Botanic Gardens] - [Water Plan Grant Denver Botanic Gardens Water in the
West]

Dear Lisa,

This letter is to inform you that the PO to assist in the above Colorado's Water Plan grant project has been approved. The documents attached to the email correspondence serve as your original contract documents.

With the executed agreement, you are now able to proceed with the project and invoice the State of Colorado for costs incurred through 12/26/2022. Please provide the project name and POGG1 number when corresponding with or invoicing for your project along with back-up documentation of cost incurred for the portion of the grant according to the original scope of work tasks. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 30 days after review and signed approval of the project manager.

Please refer to the CWP Grant Guidelines on our website for the six month progress report and final deliverable requirements in order to avoid a delay in payment. A 30-day advance notice in an official letter of request to the CWCB project manager is required in the event you are seeking an amendment to the term of this agreement.

If you have any questions or concerns regarding the project, please contact Mara MacKillop, Project Manager at 303-866-3441 x 3242 or at mara.mackillop@state.co.us.

When submitting invoices and progress reports, please cc both the PM and waterplan.grants@state.co.us.

Thank you.





STATE OF COLORADO
Department of Natural Resources

ORDER				** IMPORTANT **		
Number: POGG1 PDAA 201800000603				The order number and line number must appear on all invoices, packing slips, cartons and correspondence		
Date: 12/26/17						
Description: Water Plan Grant Denver Botanic Gardens Water in the West				BILL TO		
Effective Date: 12/26/17 Expiration Date: 12/26/22				COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203		
BUYER				SHIP TO		
Buyer:				COLORADO WATER BOARD CONSERVATION		
Email:				1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203		
VENDOR				SHIPPING INSTRUCTIONS		
DENVER BOTANIC GARDENS				Delivery/Install Date:		
909 YORK ST				F.O.B:		
DENVER, CO 80206-3751				VENDOR INSTRUCTIONS:		
Contact: .						
Phone: 3033314000						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$44,750.00	<input type="checkbox"/>
Description: Water Plan Grant Denver Botanic Gardens Water in the West						
Service From: 12/26/17 Service To: 12/26/22						
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$44,750.00						



Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement of Work

Date:	12/20/17
Name of Grantee:	Denver Botanic Gardens
Name of Water Project:	Water in the West: Exhibition & Outreach through the Gardens
Funding Source:	CWCB, Denver Botanic Gardens

Water Project Overview: Please provide a summary of the proposed water project (200 words or less).

Denver Botanic Gardens requests funds to support development and implementation of a new, comprehensive exhibition within its Science Pyramid venue to educate Coloradans and visitors to the state about water in the West, highlighting Colorado's water issues and needs for conservation, reuse, and preservation/enhancement of natural environments. The exhibition visitor engagement opportunities will reinforce the many ways in which people, land, and the broader natural environment are connected. The digital learning space offers an ideal forum for discovery and presents multiple ways for participants to understand how water, through its presence or absence, affects people, plants, and animals in all of Colorado's life zones, from steppe to alpine. The Gardens will include new methods for data visualization to illustrate impacts of water scarcity and educate about best practices for stewardship. Elements within the new exhibition will include:

- large-scale environmental graphics
- sound
- a projection program on a globe display demonstrating variability in precipitation in geographic regions, as well as waterway connections and drought
- video/animation
- interactives with messages centered on soil, water, plants, animals
- data visualization to create a platform for citizen science, whether through precipitation monitoring or the sharing of water usage data

Objectives: List the objectives of the project.

Through this project the Gardens will educate Coloradans and visitors to the state about water in the West in an innovative learning environment that reaches off-site constituents as well. By meeting people where they are regardless of knowledge base, and by harnessing a non-traditional environment, the Gardens reaches individuals more apt to learn and retain key concepts about how water is essential for a thriving economy and healthy, resilient ecosystem. By completing the tasks included here (focus groups, exhibition implementation, and K-12/Science Chat educational programs), the Gardens can assist with the need Yale Law School professor Dan Kahan describes as "Fixing the Communications Failure" as included in *Nature*, v. 463, pp 296-97, 2010. "It would not be a gross simplification to say that science needs better marketing. Unlike commercial advertising, however, the goal is . . . to create an environment for the public's open-minded, unbiased consideration of the best scientific information." Additionally, this project can address the cultural side of science communication, a need outlined by Douglas Medin and Megan Bang in the departments of Psychology and School of Education and Social Policy at Northwestern University. The researchers noted that in most science education representations of ecosystems "humans are almost never included" which "provides additional evidence for a cultural



model of humans' relationship with the natural world where humans are apart from or distanced from nature." The Gardens' education work can change this to foster greater understanding of how human behavior in the environment directly impacts this complicated network of systems.

Tasks

Provide a detailed description of each task using the following format:

Task – Develop, Design & Implement Exhibition in Science Pyramid Venue

Description of Task:

The Gardens' exhibition and interpretative engagement teams are well-versed in developing exhibitions that foster inquiry and discovery, all the while engendering enthusiasm and inspiration among multi-age participants. The multi-phase nature of implementing an exhibition with multiple components is outlined below.

Method/Procedure:

The following items outline the framework to the method of exhibition development. Final design, interactive, and messaging decisions are based on the determined visitor experience, final articulated learning outcomes, and available budget as estimates are finalized:

- Host focus groups / deliver baseline survey (front-end evaluation)
- Write, edit, translate (Spanish) interpretive copy
- Engage exhibit designer(s) to design, fabricate various exhibition components and platforms, including production of graphics, displays, and sound enhancements
- Develop new digital program for globe interactive
- Evaluate/update and install hardware/software; make physical updates necessary
- Produce film and/or animation
- Secure image licensing/photography
- Develop K-12 curriculum ties and Science Chat programs
- Deliver Science Chat Programs

Grantee Deliverable: Describe the deliverable the grantee expects from this task

Informed by front-end evaluation, through this work, the Gardens will provide a suite of new [exhibition] learning experiences to engage both visitors and off-site learners with important concepts connecting water issues to big picture ideas related to preserving healthy ecosystems and the preservation of biodiversity. Included in this deliverable is a teacher curriculum resource packet and an informal learning Science Chat. This project aligns with the Gardens' Interpretive Engagement Conceptual Framework (see last grant attachment) that moves participants along a continuum of engagement following the path of: 1) Appreciating, 2) Participating, 3) Understanding, 4) Transforming, and 5) Stewarding.

CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task

The Gardens will provide the CWCB a summary report of the exhibition components and key messages, including visuals, as well as identified visitor outcomes tied with learning experiences.

Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work.



Reporting Requirements

Progress Reports: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status 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. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

Final Report: At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will withhold disbursement the last 10% of the budget until the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Project costs not covered by other grants are the responsibility of the grantee and will be eligible for CWCB funds.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be withheld until the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

Performance measures for this contract shall include the following:

(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will withhold disbursement of the last 10% of the budget until the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.



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**Water Plan Grant - Exhibit B
Budget and Schedule**

Date: 12/20/2017

Name of Applicant: Denver Botanic Gardens

Name of Water Project: Water in the West Exhibition & Outreach through the Gardens

Task No.	Task Description	Start Date ⁽¹⁾	End Date	Water Project Funding Category	Grant Funding Request	Match Funding	Total
1	Develop, Design & Implement Exhibition in Science Pyramid Venue	1/15/2018	1/15/2022	Engagement & Innovation	\$44,750	\$50,000	\$94,750
Total					\$44,750	\$50,000	\$94,750