



TO: Colorado Water Conservation Board Members

FROM: Kirk Russell, P.E., Finance Section Chief

DATE: November 15-16, 2017 Board Meeting

AGENDA ITEM: 23. Water Plan Grants - Overview

(This item is for information only - No action is required)

Introduction

This agenda item will provide the Board with the framework regarding the Staff's approach to reviewing and processing the Colorado Water Plan Grant (WPGrant) applications. WPGrants reviewed at this Board meeting include applications to be considered for final approval and also applications that will receive an initial consideration.

Background

The 2017 Projects Bill (HB17-1248) includes \$10 million for the Board to begin implementation of Colorado's Water Plan (CWP). The Bill included \$1 million for the SWSI Update work, leaving \$9 million for grants for projects or activities that specifically have the potential to achieve the measureable objectives identified in the CWP.

The Board's goal is to achieve the highest and best use of the Water Plan grant funds while understanding that projects ideally aligned with advancing the Measurable Objectives in the CWP may not be ready for an application at this time. Staff also made available to applicants an option to identify their application as an "Intent to Apply" status. This provides the Board with an indication of future funding needs and allows for staff to assess future applications with the currently submitted applications.

The first round of applications were received on August 1, 2017 and the second round of applications were received on October 1, 2017. The 3rd and final round of applications will be due February 1, 2018. Staff has reviewed and processed the August and October applications which totaled nearly \$13 million and is prepared to present the projects and activities that staff deems worthy of CWCB's WPGrant funding.

The review process includes a two meeting review and approval process. This meeting is the second (or final) meeting for the August applications and the first (or initial) meeting for the October applications. The Board is asked to provide feedback and guidance on all projects/activities. Projects/activities that require additional vetting as a result of discussion at this meeting will be presented again at the January 2018 Board meeting for final consideration.

During the review process some applications were withdrawn and some applications needed additional time or detail before a full assessment could be made. Applications that required additional time were recommended to be moved to an "Intent to Apply" status. Staff offered to work with the applicant to assist with the missing or incomplete information.



The agenda items that follow are based on the categories identified for WPGGrant funding in the 2017 Projects Bill. Staff will provide a short presentation of the project or activity and describe how it advances the measurable objectives of the CWP.

Grants that receive final approved today will begin the contracting process. Applicant is expected to enter into a contract within six months of approval.

Grants that are “supported” by staff and the Board today during their initial consideration will advance to the January 2018 Board meeting for final approval.

Table 1 is a rough summary of the WPGGrant categories and the current demand on the amount available for grant funding.

Table 1. Funding Summary of WPGGrant Catagories (Rounded)

WPGGrant Category	HB17-1248	Recommended For Approval	Supported Projects	Remaining Balance
Agricultural	\$1,000,000	\$400,000	\$550,000	\$50,000
Storage	\$3,000,000	\$884,000	\$700,000	\$1,416,000
Supply Gap	\$2,000,000	\$988,000	\$647,000	\$355,000
Env/Recreation	\$1,000,000	\$454,000	\$391,000	\$155,000
Conservation	\$1,000,000	\$114,000	\$283,000	\$717,000
Innov/Outreach	\$1,000,000	\$609,000	\$262,000	\$129,000

Attached to this memo is the list of projects or activities that were submitted on August 1, 2017 and October 1, 2017 and the action or position the staff has taken on each.

Attachment - List of Applications and Intent to Apply

Water Plan Grant Applications

	Applicant	Project	Primary	CWP Request Amount	Total Project Cost	CWP Recommended Amount	Type	Action
A-1	Fruitland Irrigation Company	Fruitland Irrigation Renovation Project	Agriculture	\$500,000	\$10,455,554	\$350,000	Construction	Recommended
A-2	La Plata Water Conservancy District	Bobby K Taylor Reservoir Recharge Pits	Agriculture	\$35,000	\$70,000	\$35,000	Construction	Recommended
A-3	Treanor Enterprise Ditch Company	Treanor Ditch Lining Project	Agriculture	\$17,000	\$30,000	\$17,000	Construction	Recommended
A-4	Colorado River Water Conservation District	Silt Water Conservancy District Agricultural Infrastructure Improvement Project	Agriculture	\$200,000	\$4,710,000	\$100,000	Construction	Supported at reduced funding
A-5	Haymeadow Metropolitan District No. 6	Love & White Ditch Efficiency Project- Phase 1	Agriculture	\$300,000	\$3,325,800	\$150,000	Construction	Supported at reduced funding
A-6	Turner Ditch Company	Turner and Lone Cabin Ditch - Combination Salinity Reduction Project	Agriculture	\$350,000	\$6,000,000	\$175,000	Construction	Supported at reduced funding
A-7	Ducks Unlimited, Inc	North Park Irrigated Meadows Infrastructure Improvements	Agriculture	\$150,000	\$300,000	\$75,000	Construction	Supported at reduced funding
A-8	Colorado River Water Conservation District	Fire Mountain Canal Regulating Reservoir	Agriculture	\$100,000	\$3,132,000	\$50,000	Construction	Supported at reduced funding
Total Agriculture				\$1,652,000		\$952,000		
S-1	City of Walsenburg	City Lake Dam Rehabilitation and Enlargement	Storage	\$804,000	\$6,821,000	\$804,000	Construction	Recommended w/ condition
S-2	Colorado River Water Conservation District	Understanding local streamflow to quantify West Divide Project component yield	Storage	\$80,260	\$160,520	\$80,260	Study	Recommended
S-3	City of Brighton	Erger's Augmentation Station	Storage	\$700,000	\$3,500,000	\$700,000	Construction	Supported
Total Storage				\$1,584,260		\$1,584,260		
G-1	Central Colorado Water Conservancy District	Walker Recharge Project	Sup & Dem	\$1,000,000	\$9,998,100	\$750,000	Construction	Recommended
G-2	Conejos Water Conservancy District	Conejos Cooperative Project	Sup & Dem	\$314,643	\$349,643	\$158,051	Study&IPP	Recommended
G-3	South Metro WISE Authority	WISE Binney Connection	Sup & Dem	\$80,000	\$250,000	\$80,000	Study&IPP	Recommended
G-4	Town of Firestone Water Activity Enterprise	Modeling Reservoir Operations for Direct Reuse	Sup & Dem	\$71,500	\$160,100	\$71,500	Study	Supported
G-5	Aurora-Colorado Springs Joint Water Authority	Homestake Arkansas River Diversion Improvements	Sup & Dem	\$500,000	\$7,650,000	\$500,000	Construction&IPP	Supported
G-6	St. Charles Mesa Water District	Long-Term Potable Water Supply to the Zinno Subdivision	Sup & Dem	\$75,000	\$1,180,587	\$75,000	Construction	Supported
Total Supply Demand Gap				\$2,041,143		\$1,634,551		

Applicant		Project	Primary	CWP Request Amount	Total Project Cost	CWP Recommended Amount	Type	Action
R-1	American Whitewater	Assessing Nonconsumptive Rec Needs& Opportunities in the Rio Grande River Basin	Env & Rec	\$39,200	\$90,160	\$39,200	Study	Recommended
R-2	Denver Botanic Gardens	South Platte River Basin Restoration Planning and Feasibility Study	Env & Rec	\$69,847	\$145,485	\$69,847	Study	Recommended
R-3	Trout Unlimited	Needle Rock Ditch Diversion Modification	Env & Rec	\$20,000	\$40,000	\$20,000	Construction	Recommended
R-4	Trout Unlimited	Windy Gap Reservoir Bypass Project	Env & Rec	\$1,950,000	\$16,139,684	\$325,237	Construction&I PP	Recommended
R-5	Aurora-Colorado Springs Joint Water Authority	Homestake Arkansas River Diversion Improvements	Env & Rec	\$300,000	\$7,650,000	\$200,000	Construction&I PP	Supported at reduced funding
R-6	Colorado Water Trust	McKinley Ditch Project	Env & Rec	\$66,000	\$140,300	\$66,000	Construction & Other	Supported
R-7	Ducks Unlimited, Inc	Wellington Wetland Enhancement and Recreation Project	Env & Rec	\$50,000	\$105,000	\$50,000	Construction	Supported
R-8	Trout Unlimited	Lower Tomichi Water Conservation Project	Env & Rec	\$150,000	\$300,000	\$75,000	Study and Other	Supported at reduced funding
Total Enviro & Rec				\$2,645,047		\$845,284		
L-1	Dominion Water & Sanitation District	Regional Factors in Precipitation Harvesting	Cons & LU	\$54,000	\$108,000	\$54,000	Study&IPP	Recommended
L-2	Peak Spatial Enterprises/Chambers Econ and	Water Information/Real Estate Water Disclosure Site	Cons & LU	\$60,000	\$127,500	\$60,000	Study&IPP	Recommended
L-3	City of Brighton	NO-DES Water Flushing System Purchase	Cons & LU	\$250,000	\$500,000	\$0	Other	Not Supported
L-4	NWCCOG/QQ	Water savings measures in land use codes in the headwaters	Cons & LU	\$25,500	\$74,500	\$25,500	Study	Supported
L-5	WateReuse Colorado	Development of Treatment and Monitoring Guidelines for Direct Potable Reuse in Colorado	Cons & LU	\$65,000	\$100,000	\$65,000	IPP	Supported
L-6	Colorado State University	Linking urban landscape irrigation, urban growth density, and return flows	Cons & LU	\$142,536	\$285,930	\$142,536	Study	Supported
L-7	Colorado Springs Utilities	Homebuyer Landscape Outreach Program	Cons & LU	\$50,000	\$179,610	\$50,000	Other	Supported
Total Conservation & Land Use				\$533,036		\$283,036		
O-1	Arkansas River Basin Water Forum	Implementing the Education & Outreach Goals of the Arkansas Basin Implementation Plan through Education to Action Projects/Programs	Engagement	\$29,400	\$60,175	\$24,350	Engagement	Recommended
O-2	Colorado Cattlemen's Association	Agriculture Water Collaborative	Engagement	\$152,400	\$309,800	\$76,200	Engagement	Recommended
O-3	Colorado Foundation for Agriculture	Understanding Water Activity Book	Engagement	\$65,000	\$65,000	\$53,000	Engagement	Recommended
O-4	Colorado Foundation for Water Education	Deepening Water Engagement through Expansion of the Water Educator Network and Citizen's Guides	Engagement	\$174,000	\$215,000	\$110,000	Engagement	Recommended
O-5	Colorado Open Lands	Enhancing the Colorado Water Plan through Comprehensive	Engagement	\$85,750	\$326,750	\$61,750	Engagement	Recommended

Applicant		Project	Primary	CWP Request Amount	Total Project Cost	CWP Recommended Amount	Type	Action
O-6	Denver Botanic Gardens	Water in the West: Exhibition & Outreach through the Gardens	Engagement	\$44,750	\$94,750	\$44,750	Engagement	Recommended
O-7	Geothermal Greenhouse Partnership, Inc.	Community Garden and Innovation Greenhouses	Engagement	\$186,000	\$270,000	\$174,500	Construction	Recommended
O-8	One World One Water Center at MSU Denver	WaterWise Circa 2018: Water Theatre Company	Engagement	\$10,225	\$15,725	\$10,225	Engagement	Recommended
O-9	Open Water Foundation	TAP-IN	Engagement	\$60,000	\$70,000	\$54,000	Engagement	Recommended
O-10	Roaring Fork Conservancy	River Center Education Programs	Engagement	\$50,000	\$134,000	\$50,000	Engagement	Supported
O-11	One World One Water Center at MSU Denver	Activating Colorado's Water Plan with Student Driven Innovation	Engagement	\$40,000	\$50,000	\$40,000	Engagement	Supported
O-12	National Young Farmers Coalition	Training Young Farmers – Water Leaders	Engagement	\$33,080	\$41,280	\$33,080	Engagement	Supported
O-13	Middle Colorado Watershed Council	Colorado River Interpretive Center	Engagement	\$47,400	\$90,200	\$47,400	Engagement	Supported
O-14	Mancos Conservation District	Mancos Watershed Outreach/Data (MWOD) & School-based Outdoor Learning Lans (SOLL)	Engagement	\$81,250	\$181,621	\$81,250	Engagement	Supported
O-15	Colorado State University, Colorado Stormwater Center.	Investigation of Barriers to Policy for Low Impact Development	Engagement	\$10,000	\$12,500	\$10,000	Engagement	Supported
Total Innovation & Outreach				\$1,069,255		\$870,505		
Total All Grant Categories				\$9,524,741		\$6,169,636		

Intent to Apply List - November 2017

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	Applicant	Project	Primary	CWP Request Amount	Total Project Cost	Type	
A-1	City of Aspen / Wilderness Workshop / Western Resource	ATM Pilot Project in the Upper Roaring Fork Valley	Agriculture	TBD	TBD	Study	
A-2	Colorado River Water Conservation District	Bostwick Park Irrigation Efficiency Improvement: West Lateral Piping (Phase 2)	Agriculture	\$450,000	\$1,843,000	Construction	
A-3	Colorado River Water Conservation District	Rogers Mesa Water Delivery Infrastructure Improvements	Agriculture	\$1,000,000	\$9,628,000	Construction	
Agricultural - Intent to Apply Subtotal				\$1,450,000			
S-1	Fort Lyon Canal Company	Adobe Creek Dam	Storage	\$1,500,000	\$10,000,000		
S-2	South Metro Water Supply Authority	Regional Aquider Storage and Recovery Project	Storage	TBD	TBD		
Storage - Intent to Apply Subtotal				\$1,500,000			
G-1	Grand Valley Water Users Assoc	Canal Headgates Replacement (Roller Dam and Canyon Facilities)	Sup & Dem	\$545,000	\$545,000	Construction&IPP	
G-2	Grand Valley Water Users Assoc	Rehabilitate the Roller Tracks and Canal Concrete (Roller Dam and Canyon Facilities)	Sup & Dem	\$769,000	\$769,000	Construction&IPP	
G-3	Grand Valley Water Users Assoc	Station 22 Rehabilitation (Roller Dam and Canyon Facilities)	Sup & Dem	\$170,000	\$170,000	Construction&IPP	
G-4	Grand Valley Water Users Assoc	Upgrade the Roller Dam Electrical and Control Systems (Roller Dam and Canyon Facilities)	Sup & Dem	\$722,000	\$722,000	Construction&IPP	
G-5	Town of Castle Rock (Castle Rock Water)	Plum Creek Water Purification Facility Expansion	Sup & Dem	\$200,000	TBD	Construction	NEW
G-6	South Metro WISE Authority	WISE Regional Salinity Management Study	Sup & Dem	TBD	TBD	Study	NEW
Supply & Demand - Intent to Apply Subtotal				\$2,406,000			
R-1	Colorado Water Trust	Collier Ditch Infrastructure Modifications	Env & Rec	\$46,750	\$93,500	Other	
R-2	Colorado Water Trust	Crystal River Restoration	Env & Rec	\$15,000	\$30,000	Other	
R-3	Colorado Water Trust	McKinley Ditch Infrastructure Modifications	Env & Rec	\$35,000	\$71,000	Construction	
R-4	The Nature Conservancy	Maybell Ditch Water Banking Pilot Project	Env & Rec	\$87,500	\$175,000	Study	
R-5	Trout Unlimited	Hubbard Creek Flow Restoration	Env & Rec	\$25,000	\$50,000	Construction	
R-6	The Nature Conservancy	Freshwater Implementation Network & Decision Support Tool	Env & Rec	\$91,190	\$182,380	Study&IPP	
R-7	American Whitewater	Assessing Nonconsumptive Recreational Needs and Opportunities in the Arkansas River Basin	Env & Rec	\$48,600	\$111,780	Study	

Intent to Apply List - November 2017

Applicant		Project	Primary	CWP Request Amount	Total Project Cost	Type	
R-8	American Whitewater	Assessing Nonconsumptive Recreational Needs and Opportunities in the South Platte River Basin	Env & Rec	\$86,100	\$96,830	Study	
R-9	Pueblo Conservancy District	Arkansas River and Wildhorse Creek Levees	Env & Rec	\$500,000	\$1,400,000	Construction	
R-10	The Nature Conservancy	Wine Ditch	Env & Rec	\$125,000	\$250,000	Study/Construction/IPP	NEW
R-11	Town of Carbondale	Crystal River Restoration and Weaver Ditch Efficiency Project	Env & Rec	\$100,000	\$200,000	IPP & Other	NEW
Environmental & Rec - Intent to Apply Subtotal				\$1,160,140			
L-1	Avery Ellis – Avery Ecological Design	Colorado Rain Barrel Project	Cons & LU	TBD	TBD	Other	
L-2	Avery Ellis – Avery Ecological Design	Low Impact Development – Decentralized Stormwater Management	Cons & LU	TBD	TBD	Other	
L-3	South Metro Water Supply Authority	Regional Landscape and Irrigation Certification Pilot Program	Cons & LU	TBD	TBD	Other	
Conservation & Land Use - Intent to Apply Subtotal				\$0			
O-1	Colorado Watershed Assembly	South Platte Basin Innovation & Engagement Coordination	Engagement			IPP	
O-2	Open Water Foundation	The Colorado Aqua Hack – A Water Innovation Challenge	Engagement	\$50,000	\$125,000	Engagement	
O-3	Phyllis Thomas Consulting	Public Information Platform	Engagement	TBD	TBD	Other	
O-4	South Metro Water Supply Authority	Regional Water Utility Operator Outreach Program	Engagement	TBD	TBD	Other	
O-5	Colorado Water Institute, CSU	Poudre: Working River/Healthy River Community Education Campaign	Engagement	\$25,000	\$50,000	Engagement	NEW
O-6	South Metro WISE Authority	Douglas County Water Outreach Program	Engagement	\$25,000	\$50,000	Engagement	NEW
O-7	Water Education Colorado & CSU	Serious Gaming	Engagement	\$100,000	\$115,000	Engagement	NEW
Engagement - Intent to Apply Subtotal				\$200,000			
Summary of Total Water Plan Grant (all categories)				\$6,716,140			