STATE OF COLORADO

Colorado Water Conservation Board Department of Natural Resources

1313 Sherman Street, Room 721 Denver, Colorado 80203 Phone: (303) 866-3441 Fax: (303) 866-4474 www.ewob.state.co.us

TO:

Colorado Water Conservation Board Members

Bill Ritter, Jr. Governor

FROM:

Eric Hecox and Todd Doherty

Harris D. Sherman DNR Executive Director

Intrastate Water Management & Development

Jennifer L. Gimbel CWCB Director

DATE:

January 23, 2009

Dan McAuliffe

SUBJECT:

Agenda Item 7 Addendum,

CWCB Deputy Director

January 27-28, 2009 Board Meeting

Water Supply Reserve Account (WSRA) Account Balance Summary

Staff Recommendation

Several options are identified for Board discussion.

Background

The Water Supply Reserve Account (WSRA) is funded out of the DNR Operational Account of the Severance Tax Trust Fund and is a "Tier 2" program.

Pursuant to Section 39-29-109.3(4), C.R.S., statutory transfers from the Operational Account of the Severance Tax Trust Fund are made in three annual installments. These installments include 40 percent of authorized funding being transferred on July 1 of a fiscal year, 30 percent being transferred on January 4, and the final 30 percent being transferred on April 1. Pursuant to this statute, the two 30 percent transfers are contingent upon there being sufficient revenue in the Operational Account to fully fund "Tier 2" programs (that is, programs authorized in Section 39-29-109.3(2), C.R.S.). If there are not sufficient revenues to meet these conditions, the statute requires proportional reductions to be made to all of the annual Tier 2 transfers. According to the statute, the condition that there is sufficient revenue for the 30 percent transfers is to be based on the revenue estimate made by Legislative Council Staff in December and March respectively.

The WSRA was authorized to receive a total of \$10 million in Fiscal Year 2008-2009. It received \$4 million on July 1, 2009. Of the \$4 million, \$2.7 million went into the Basin Accounts (thus fully funding each Basin Account at \$1 million), and \$1.3 went into the Statewide Account.

Staff recently learned that there is sufficient revenue in the Operational Account to fully fund all Tier 2 programs. Therefore, the WSRA received an additional \$3 million in January, 2009 which went into the Statewide Account.

These transfers and the current balances of the Basin Account and Statewide Account are summarized below.

Water Supply Reserve Account Balances								
Janua	ary 23, 2009							
	Basin	Statewide						
	Accounts	Account	Total					
Water Supply Reserve Account Grants Given	\$5,545,232.46	\$13,260,377.42	\$18,805,609.88					
WSRA Allocation 2006-2007 (\$500,000/basin)	\$4,500,000	\$5,500,000	\$10,000,000					
WSRA Allocation 2007-2008 (\$200,000/basin)	\$1,800,000	\$4,200,000	\$6,000,000					
WSRA Allocation 2008-2009	<u> </u>							
7/1/08 (\$300,000/basin)	\$2,700,000	\$1,300,000	\$4,000,000					
1/1/09	\$0.00	\$3,000,000	\$3,000,000					
4/1/09	\$0.00	\$3 million possible						
Total	\$9,000,000	\$14,000,000.00	\$23,000,000.00					
Water Supply Reserve Account Balance	\$3,454,768	\$739,622	\$4,194,390					

Analysis

The results of receiving full July and January transfers are three fold:

- 1. All the applications already approved by the Board can be fully funded
- 2. Each Basin Account can be fully funded at \$1 million each per the Criteria and Guidelines
- 3. The Statewide Account has a balance of \$739,622

However, additional revenue coming into the WSRA is uncertain. The WSRA may or may not receive additional funding in April, 2009 and/or next fiscal year. Legislative Council Staff have significantly lowered the projection of severance tax revenue receipts and funding for Tier 2 programs will need to be reconciled with revenue shortfalls.

Options for Moving Forward

Basin Account: There are sufficient funds in each Basin Account to continue approving WSRA applications up to \$1 million per Basin. However, additional Basin Account funding in Fiscal Year 2009-2010 is uncertain.

Statewide Account: Staff has identified three options for the Statewide Account:

- 1. At the March Board meeting consider applications to the available funds in the Statewide Account (\$739,622).
- 2. Delay consideration of application to the Statewide Account until the May Board meeting. By May staff will know whether or not additional funds were received from the April transfer. This option allows for two rounds of Statewide applications in 2009.
- 3. Delay consideration of applications to the Statewide Account until the September Board meeting. By September staff will know whether or not additional funds were received from the April transfer and have a good idea of funding levels for Fiscal Year 2009-2010. This option will result in only one round of Statewide applications in 2009, but the Basin Roundtables and the Board will have a better idea of future funding levels when making funding decisions.





Water Sup	oly Reserve Acco	Water Supply Reserve Account Applications for Consideration at the CWCB March 2009 Board Meeting	at the CWCB N	larch 2009 By	wird Meeting				
Basin	Applicant	Name of Water Activity	Date Received CWCB Meeting Request	CWCB Maeting	Basin Account Account Request Request	Statewide Account Request	Total Request	Type of Water Activity	Reviewer
Arkansas	Upper Arkansas Water Conservency District	UAWCD Hydrologic Water Balance Study		Jan-08	 	\$180,000	3:69:000	Study or analysis of non structural, consumptive, or conconsumptive water needs and projects	<u> </u>
Arkankas	City of Pueblo	Beckoad/Sediment Colection and Removal Technology Fountain Creek		90-uer	\$40,000	\$185,000	\$225,000	Study or analysis of structural, non structural, nonconsumptive water needs, projects	
Arkanses	Upper Black Squirrel Designated Groundwater Management District	Upper Black Squirrel Water Belence Study		Sp-09	938,000	000'598\$	\$110,000	Study or analysis of non abructural, consumptive, or nonconsumptive water needs and projects	<u> </u>
Arkansas Bas	Arkansas Basin Total Requests		_ _		1465,000	\$450,000	\$515,000		<u> </u>
Colorado	NWCoG	Non Consumptive Needs Assessment		Jan-08	\$315,210	OS.	\$315,210	Study or analysis of nonconsumptive water needs	<u></u>
Colorado Bas	Colorado Basin Total Requests				\$315,210		£315,210		
Gurrigon	City of Grand Junction Water Enterprise Fund	Juniera Reservoir Enlargement Project	+	Jay-09	\$25,000	\$72,000	000′28\$	Structural and/or nonstructural water project or activity	
Gunnison	Ridgeway	Ridgeway Ditch and Lake Otonawanda Improvement Project		20 - La	9.00 9.00 9.50 9.50 9.50	, de	 	Technical assistance regarding permitting feasibility studies and environmental complance; and study or analysis of studies of studies of studies.	<u> </u>
Gurntson	Upper Gunnison River Water Conservancy District (on behalf of Gunnison BRT)	Agricultural Water Needs Assessment and Water Supply Analysis			\$111,480	\$74,520	\$186,800	Study or analysis of consumptive water project or activity	
Sunnison Bas	Gunnison Basin Total Requests				\$186,480	\$205,620	£382,300		
Metro	South Metro	Aquiter Recharge Plot Study		Jan-09	 	\$1,167,000	\$1,187,000	Study or analysis of consumptive water project or activity	
Metro Basin T	Metro Basin Total Requests			- -	\$100,000	\$1,167,000	\$1,267,000		





					Statewio Basin Account Account	Statewide			
Basin	Applicant San Life Valey	Name of Water Activity	Date Received CWCB Meeting Request	CWCB Meeting	Request	Request	Total Request	Type of Water Activity	Reviewer
Rio Grande	San Luis Valley Resource Conservation & Development Council	Lower Willow Cycek Restoration Project		Jan-09	\$50,000	\$200,000	\$250,000	Structural and/or nonskructural water project or activity	
	a Irrigation	Sangre de Cristo Trinchera Diversion Canal Restoration			\$60,000	\$200,000	\$250,000	Structural and/or nonstructural water project or activity	
io Grande Bas	Rio Grande Basin Total Request				\$100,000	\$400,000	\$500,000	_	
South Plate	Ducks Unimited	Central South Platte Wetland Partnership:		Jarros	\$150,000	8.	\$150,006	Environiniental compliance and feasibility study and structural endor nonstructural water project or activity	
	Fort Morgan Reservoir and Imigation Company and Groves Farms, LLC	FMRICo and Groves Recharge & Wellands		Jan-09	\$250,000	\$850,000	\$1,100,000	Structural and/or roject or echylly activity	
outh Platte Be	South Platte Basin Total Requests	- W	· -		\$400,000	\$880,000	\$1,250,000	_	
Southwest	La Plata Archuteha	La Plata Archileia Water District		Jan-09	5	\$500,000	\$600,000	Technical assistance regarding permitting feasibility studies and environmental compilance	
İ	Lower Blanco River Restoration	Lower Blanco River Resideration Project		Jan-09	\$100,000	\$300,000	\$400,000	Structural and/or nonatructural water project or activity	
	Florida Mesa Canal	The state of the s	-	99.00	ŝ	*4 oran ora	\$ 1 000 000	Technical assistance regarding permitting regarding permitting feasibility studies and environmental compliance; and study or analysis of structural project or activity	
- Commence	Confederation	Activity of high to the control of t					<u>-</u>	Technical assistance regarding permitting feasibility studies and environmental compliance, and study or analysis of	
Southwest Bas	Southwest Companies Southwest Basin Total Requests	Companies improvement Program in Total Requests		Jan-09	\$100,000	\$1,900,000	\$2,000,000	structural water project	
Nater Supply f	Reserve Account To	Water Supply Reserve Account Total January Requests			\$1,366,890	\$4,872,820	\$8,239,510		



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Colorado Water Conservation Board Department of Natural Resources

1313 Sherman Street, Room 721 Denver, Colorado 80203 Phone: (303) 866-3441 Fax: (303) 866-4474 www.cwcb.state.co.us BOA BOA

TO: Colorado Water Conservation Board Members

FROM: Todd Doherty

Intrastate Water Management and Development Section

DATE: January 18, 2009

SUBJECT: Agenda Item 7, January 27-28, 2009 Board Meeting

Water Supply Reserve Account Grant Applications

Bill Ritter, Jr. Governor

Harris D. Sherman DNR Executive Director

Jennifer L. Gimbel CWCB Director

Dan McAuliffe CWCB Deputy Director

Staff Recommendation

A summary of staff's recommendation for each grant request is provided in the table below. Favorable recommendations may be contingent on providing the CWCB with additional information, clarifications, or modifications in the scope of work. Please refer to the Water Activity Summary Sheets contained within this agenda item to find a summary of staff's review and any conditions associated with each recommendation.

	Basin	Project Name	Total	Recommendation
			Request	
a.	South Platte	Lost Creek Basin - Aquifer	\$160,000	To fund up to \$80,000
	and Metro	Recharge and Storage Study		from the South Platte
				Basin Account and up to
				\$80,000 from the Metro
				Basin Account.
b.	Southwest	Molas Lake Ditch Rehabilitation and	\$95,000	To fund up to \$100,000
		Diversion Structures		from the Southwest Basin
				Account

Background

During this agenda item the Board will be provided with a brief overview of the two applications that are requesting money from the Water Supply Reserve Account (WSRA). Attachments to this memo include:

- Summary spreadsheet summarizing funding requests and summarizing to date activities for the basin and statewide accounts;
- Water Activity Summary Sheet which provides an overview, discussion, issues/additional needs and staff recommendation regarding funding, partial funding, or not funding the applications; and
- Copies of the full applications, Basin Roundtable approval letters and any supporting documentation provided by the applicants.

Staff's review of the applications involved the following procedures and steps:

- 1) The applications were reviewed for completeness based on the information requirements, which are primarily outlined in Part 2 of the Criteria and Guidelines.
- 2) The applications were reviewed to verify that the water activity met the **eligibility requirements** in Section 39-29-108 (III) C.R.S. (also outlined in Part 2 of the Criteria and Guidelines) and the **threshold criteria**, which are based on the requirements of Section 39-29-108 (III) C.R.S., and two sections of the Water for the 21st Century Act (House Bill 1177); Section 37-75-102 and Section 37-75-104(2)(c) (see Part 3 of the Criteria and Guidelines). Staff also verified whether that the applicant was an **eligible entity** to receive funding (see Part 2 of the Criteria and Guidelines).
- 3) This funding cycle only provided for funding from the Basin Accounts. Therefore, staff did not need to review the applications for conformance with the **evaluation criteria**.
- 4) Staff then prepared the Water Activity Summary Sheet which documents the outcome of the review process and contains staff's recommendations.

Water Supply Reserve Account Balances November 2008 (No Interest Included)

*		Combined Basin	Basin		Statewide		
		Funds (Fiscal	Account	Total State	Fund		
	Total Basin Grants*	Years, 2006-09)	Balances*	Grants*	Balance		
Arkansas	\$783,781	\$1,000,000	\$216,219	\$3,193,287			
Colorado	\$535,000	\$1,000,000	\$465,000	\$2,227,900			
Southwest	\$462,000	\$1,000,000	\$538,000	\$2,240,000			
Gunnison	\$413,965	\$1,000,000	\$586,035	\$961,660			
Metro	\$813,139	\$1,000,000	\$186,861	\$200,000			
North Platte	\$849,715	\$1,000,000	\$150,285	\$311,027			
Rio Grande	\$669,950	\$1,000,000	\$330,050	\$2,617,400			
South Platte	\$563,111	\$1,000,000	\$436,889	\$1,260,269			
Yampa/White	\$454,572	\$1,000,000	\$545,428	\$248,835			
Total	\$5,545,232	\$9,000,000	\$3,454,768	\$13,260,377	\$3,739,623		
*WSRA grant requests that have been approved by the CWCB							
Total Grants (Basin and Statewide Accounts)		\$18,805,610					

Water Supply Reserve Account – Grant and Loan Program Water Activity Summary Sheet Agenda Item 7a

Applicant: Lost Creek Groundwater Management District

Water Activity Name: Lost Creek Aquifer Recharge and Storage Study

Water Activity Purpose: Study of nonstructural/consumptive water needs

County: Arapahoe, Adams and Weld

Drainage Basin: South Platte **Water Source:** South Platte

Amount Requested: \$160,000 (\$80,000 South Platte and Metro Basin Accounts)

Matching Funds: \$13,000

Staff Recommendation

Staff recommends approval of up to \$80,000 from the South Platte Basin Account and \$80,000 from the Metro Basin Account to help fund the Lost Creek Aquifer Recharge and Storage Study contingent on resolution of the items in the issues/additional needs section.

Water Activity Summary:

The objectives of this study are to compile, collect, and analyze hydrologic, aquifer property and water quality data to characterize the ground water resources in the alluvial aquifer and evaluate geographic, infrastructure, land ownership/use information for the purposes of assessing the potential for aquifer recharge and storage implementation. To address the needs of in-basin water rights holders and assist the management district in their decision-making processes, the applicants propose to:

- 1. Characterize the configuration and extent of the alluvial aquifer within the Lost Creek basin;
- 2. Compile and present current and historic ground-water levels and water level trends;
- 3. Characterize the amount of natural recharge and estimate the available storage capacity in the alluvial aquifer;
- 4. Determine hydraulic and storage properties of the alluvial aquifer;
- 5. Present the spatial relationship with the underlying Denver Basin bedrock aquifers;
- 6. Characterize the land use and ownership; and
- 7. Identify the existing water delivery infrastructure.

Discussion:

As indicated by the applicant, storage of water underground has many benefits over surface water storage including no evaporative losses, less security threat, lower vulnerability of contamination, less permitting hurdles and potentially lower implementation costs. The applicant also highlighted several relevant findings identified in SWSI including the fact that the South Platte basin has a water supply gap over 90,000 AF, competition in the basin is fierce, water supplies are not necessarily where demands are located, the reliance on non-renewable groundwater remains unresolved and new water development will most likely require additional storage. Lastly, the applicant refers to SB 06-193 directing the CWCB to study potential underground water storage areas in the South Platte and Arkansas River basins. Aquifers within those basins were evaluated for 10 criteria representing hydrogeologic, environmental, and implementation considerations. The two highest scoring subregions in the South Platte River basin were Lower Lost Creek and Upper Lost Creek, where the estimated storage capacity in the Lost Creek basin was over 1.4 million acre-feet.

While staff agrees with the applicant on the benefits of aquifer storage and recharge and that the SB 06-193 study demonstrated potential for aquifer recharge and storage in the Lost Creek aquifer, there are still broader questions that appear to remain unanswered. Primarily, the project does not identify a source of water for recharge purposes nor does it identify an end user. The scope of work includes the "identification of priority areas for potential aquifer recharge pilot areas" but does not provide enough information to determine if an evaluation of potential water supplies or end users is contemplated. Staff supports the overall concept of investigating aquifer recharge and recovery yet feels that without an identified water source or end user these funds could potentially be used for a project more likely to be implemented.

Threshold and Evaluation Criteria:

The application/project meets all four Threshold Criteria. No Statewide funds are being requested, therefore the evaluation criteria does not apply.

Issues/Additional Needs:

- Please include a more detailed project schedule that includes start and completion dates for key project milestones.
- Please provide a more detailed budget including level of effort for each task.
- Please provide more information for Task 3, specifically the analysis dealing with infrastructure and the subtask that will "identify priority areas for potential aquifer recharge pilot studies."

Staff Recommendation:

Staff recommends approval of up to \$80,000 from the South Platte Basin Account and \$80,000 from the Metro Basin Account to help fund the Lost Creek Aquifer Recharge and Storage Study contingent on resolution of the items in the issues/additional needs section.

All products, data and information developed as a result of this grant must be provided to 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 will help promote the development of a common technical platform.

Water Supply Reserve Account – Grant and Loan Program Water Activity Summary Sheet Agenda Item 7b

Applicant: Town of Silverton

Water Activity Name: Molas Lake Ditch Rehabilitation and Diversion Structures

Water Activity Purpose: Structural Water Project

County: San Juan County

Drainage Basin: Animas River

Water Source: Molas Creek

Amount Requested: \$95,000 (Southwest Basin Account)

Matching Funds: Approximately \$1.1 million from the Town of Silverton and grant money have

contributed towards the overall project.

Staff Recommendation

The proposed project meets a water supply need in the Southwest Basin. Staff recommends approval of up to \$95,000 from the Southwest Basin Account to help construct improvements to the Molas Lake Ditch and its diversion structures contingent on resolution of the items in the issues/additional needs section.

Water Activity Summary:

The improvements to the Molas Lake Ditch and diversion structures are part of a broader project to rehabilitate Molas Lake, which provides water storage to Silverton and other entities. The ditch and diversion improvements are required to meet Federal and State requirements for the conveyance and measurement of water into and out of Molas Lake. The purpose of the project is to perfect an augmentation water supply for the Town of Silverton, while protecting and enhancing the recreational features of Molas Lake Park. Though not the subject of the current application the other components of the project are complete and include: significant improvements to the Molas Lake Dam to increase water storage, meeting State requirements, campground enhancements and re-vegetation at the adjacent park, mitigation of wetlands, and filing for additional water storage rights for Molas Lake to include augmentation uses.

The complicated nature of the Molas Lake project has brought numerous federal, state, and local partners together. The Town has been working through the permitting and water rights processes since 2006, incurring costs of about \$70,000 to date. All necessary permits are now in place. The subject ditch improvements and diversion structures have been required by the US Forest Service and the Bureau of Land Management. In addition, the Colorado Water Conservation Board Staff is currently negotiating with the Town of Silverton to determine the appropriate mitigation and/or terms and conditions associated with the enlargement of the dam and the inundation of the Board's natural lake water right on Molas Lake.

The originally proposed improvements to the diversion have been modified to include a secondary structure upstream of the original diversion. The requirement of this new structure has doubled the projected cost for the Town. To obtain the Federal approval necessary for the Lake's pending water rights Silverton has agreed to construct the additional diversion structure, but is struggling to fund the additional requirements. Due to

the limitations of Silverton's small annual operating budget, grants have been critical to the Molas Lake project, providing over \$900,000 towards the project.

Although permitting and engineering for the Molas Ditch is complete, the rise in construction costs, combined with unanticipated permitting and legal expenses has left the ditch and diversion improvements unfunded. Silverton is seeking funds to assist with the construction, inspections, and final permitting submittals of the Molas Lake Ditch rehabilitation and diversion structures.

Threshold and Evaluation Criteria

The application/project meets all four Threshold Criteria. No Statewide funds are being requested, therefore the evaluation criteria does not apply.

Funding Overview

Grant funding in the amount of \$95,000 is being requested from the Southwest Basin Account. Funding from the WSRA constitutes about 9% of the overall project cost (\$1,090,999). Funding for the remainder of the project has been secured and spent.

Discussion:

As identified in the SWSI findings, small municipalities such as the Town of Silverton often lack sufficient funding to develop their water supplies and infrastructure without financial aid. As the beneficiary of multiple grants the Molas Lake project has successfully completed most of its objectives with the exception of the ditch and diversion improvements that are the subject of this application. These improvements and structures are critical to the operation and water rights of Molas Lake.

Through the storage of augmentation water and recreation at the Molas Lake Park, the WSRA money would enable the completion of a structural project to meet Silverton's consumptive and non-consumptive needs.

Issues/Additional Needs:

- Staff is aware that negotiations with the CWCB staff regarding the inundation of the Molas Lake natural lake level water right have been inactive for approximately 18 months and encourages the Town to resolve these outstanding issues.
- Please include a more detailed scope of work and budget.
- Please include a project schedule that includes completion dates for key project milestones.

Staff Recommendation:

Staff recommends approval of up to \$95,000 from the Southwest Basin Account to enable the completion of the Molas Lake Ditch rehabilitation and diversion structure construction contingent on resolution of the items in the issues/additional needs section.

All products, data and information developed as a result of this grant must be provided to 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 will help promote the development of a common technical platform.