

April 2, 2014

## FOR IMMEDIATE RELEASE

## FUNDING FLOWS TO OKANAGAN PROJECTS THAT WILL PROTECT VALLEY WATER

**Kelowna, B.C.** – The Okanagan Basin Water Board has approved \$300,000 in funding to 20 projects that will help conserve and improve the quality of water in the valley. Directors approved the Water Conservation and Quality Improvement Grants at their regular board meeting on Tuesday, April 1. In all, there were 26 applications with a total ask of \$592,778.

"Like every year, we had more proposals than funding available and a very strong pool of applications," noted James Littley, OBWB's Office and Projects Manager, highlighting some of the projects approved.

In the North Okanagan, Greater Vernon Water will be hiring and training summer students to expand its water auditing program from working with residents to commercial and agricultural property owners as well. The students will also be conducting other outreach to encourage water conservation. "Residential outdoor water use is the 2<sup>nd</sup> largest use of water in the Okanagan with it spiking in the summer. The Water Board sees this as an important project, partnering well with our valley-wide Make Water Work outdoor water conservation initiative," said Mr. Littley. "We are also pleased to see greater engagement with the agricultural and business community."

Another issue that has come up in the Okanagan has been the need for updated flood mapping. The Regional District of Central Okanagan was awarded funds to conduct floodplain assessments for flood hazards, helping understand the risks (e.g. to water quality) and opportunities to address them.

"As infrastructure ages and as climate change results in more severe flooding in the Okanagan, the work of RDCO will be important in assisting communities throughout the valley to understand best practices in mitigating future flood risks," added Littley.

And in the south, the Okanagan Similkameen Stewardship Society and Friends of Park Rill were awarded funds to improve and protect the Park Rill watercourse near Oliver. "We're very happy to be able to support this project," Mr. Littley said. The project will identify species at risk and areas that need protection, and will include outreach to area landowners on how to protect the area, and identify areas for restoration and enhancement. "We see this as a great opportunity for the community to get involved in helping protect an important waterway in the Okanagan."

Since the program began awarding funds in 2006, some \$2.7 million has been provided to 179 projects throughout the Okanagan. For a full listing of funded projects please see the attached.

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# WATER CONSERVATION AND QUALITY IMPROVEMENT GRANT AWARDS - 2014

Organization	Project Title	OBWB Funding	
Regional District of North Okanagan			
Greater Vernon Water	North Kal Lake IPZ Storm Water Reclamation Project	\$20,000	
Greater Vernon Water	Water Ambassador Summer Program	\$8,000	
Greater Vernon Water	Water Educational Programming	\$8,000	
Greater Vernon Water	Water Quality Monitoring - Cosens Bay	\$9,700	
Total		\$45,700	
	Regional District of Central Okanagan		
District of Peachland	Habitat and Sediment Assessment on Peachland Creek	\$29,800	
District of West Kelowna	Water Leak Detection Equipment	\$25,000	
RDCO	Biosolids Land Application at Brenda Mines	\$25,000	
City of Kelowna	Sand Reinforcement Beach Restoration	\$20,000	
RDCO	Regional District Floodplain Assessment and Mapping	\$20,000	
Okanagan Xeriscape Association	Fostering Collaboration to Promote a Culture of Landscape Water Conservation	\$18,000	
RDCO	Treated Effluent Irrigation at Bylands Nursery	\$16,000	
Mission Creek Restoration Initiative	Baseline Biophysical and Ecological Resource Management Plan	\$15,790	
District of Lake Country	Road Drainage Assessment: Vernon Creek Watershed	\$10,000	
Okanagan Collaborative Conservation Program	Okanagan Habitat Connectivity	\$10,000	
Total		\$189,590	
	Regional District of Okanagan Similkameen		
Town of Oliver	Ground source water assessment and protection plan	\$15,000	
RDOS	Regional Water Use and Conservation Bylaw	\$10,525	
RDOS	Water Ambassador Program	\$10,525	
Kaleden Irrigation District	Source Assessment of Skaha Lake KID Intake	\$10,000	
Okanagan Nation Alliance	ORRI - Water Quality Assurance	\$10,000	
Okanagan Similkameen Stewardship Society	Park Rill Riparian and Aquatic Assessment	\$8,000	
Total		\$64,050	

## **Regional District North Okanagan**

Available funds: \$57,000 Total Requested: \$45,700 Recommended Funding: \$45,700

Project Title: Organization: Project Goals:	North Kalamalka Lake Intake Protection Zone Storm Water Reclamation Project Greater Vernon Water Kalamalka Lake is a major domestic water source for Greater Vernon, providing about 40% of		
	water to customers. In 2011, Greater Vernon Water received an OBWB WCQI grant to identify, map, monitor, and rank storm water outfalls that discharged into the north arm of Kalamalka Lake. The resulting report identified three outfalls (#13, 14 and 18) ranked as "high risk" to the		
	water quality entering the intake. This project will be the second phase in order to mitigate water quality risks.		
Staff Notes:	Direct impact on drinking water quality, building on previously funded work. Focussed on action.		
Project Budget:	\$40,000 Recommended Funding: \$20,000		
Project Title: Organization: Project Goals:	Water Ambassador Summer Program Greater Vernon Water This project is phase two of the 2013 Landscape Irrigation Auditing Program. The aim of this project is to continue with residential water audits while expanding the program to cover		
Staff Notes:	commercial and agricultural assessments. This program will train two summer staff to become Ambassadors for water sustainability in the North Okanagan. These staff will also participate in Farmers' Markets, community events, and public demonstrations where they will deliver material on making water work. Builds on work done previously in the North Okanagan, and mimics a successful program from		
	RDOS. Focussed on action and education.		
Project Budget:	\$16,000 Recommended Funding: \$8,000		
Project Title: Organization: Project Goals: Staff Notes:	Water Educational Programming Greater Vernon Water The aim of this project is to develop youth educational programs on the topics of water sustainability, quality, and conservation as they relate to our local watershed. RDNO will partner with an educational organization that has experience in creating and presenting programs. This project aims to connect youth with community resources and inspire students to take action in water sustainability. All programs will be linked to the BC curriculum. Complements current OBWB programs and objectives through the education of youth.		
Project Budget:	\$10,000 Recommended Funding: \$8,000		
Project Title: Organization: Project Goals:	Water Quality Monitoring – Cosens Bay Regional District of North Okanagan The proposed study involves a water quality sampling program in Cosens Bay to determine if there is any influence or impact from septic systems on water quality in this area. Cosens Bay was homesteaded in 1893 and has evolved into a seasonal community over the last 100 years.		
	Currently, Cosens Bay consists of a mixture of modern homes and older cottages stretching along 3 km of Kalamalka Lake shoreline with approximately 100 lots that are directly adjacent to the Lake. These lots have soils of variable drainage and rockiness, which result in challenges for on-site septic disposal. This proposed study would examine potential Kalamalka Lake water quality impacts from previous and current septic disposal methods within the Cosens Bay area.		
	The proposed sampling would contrast water quality and periphyton growth between the summer months, when most residents are residing in Cosens Bay, and autumn, when few residents will be in the community. The methodology will be designed to determine if there is a correlation between an observed seasonal peak in septic system use and any detectable impacts any user quality in the Cosens Bay area of Kolematka Lake		

impacts on water quality in the Cosens Bay area of Kalamalka Lake.

Staff Notes: Directly assesses the impact of older septic systems on water quality in the Bay. Lends itself to future action to improve sewage infrastructure in the area. **Project Budget:** \$11,080 **Recommended Funding:** \$9,700

### **Regional District Central Okanagan**

Available funds: \$178,920 Total Requested: \$235,598 Recommended funding: \$189,590

#### **Project Title:** Habitat and Sediment Assessment on Peachland Creek Organization: **District of Peachland**

**Project Goals:** The District's 2007 Water Master Plan has identified Peachland Creek as the primary source of drinking water for Peachland. The plan is to interconnect the three existing water systems to the Peachland Creek source and construct a water treatment plant near the Peachland Creek intake in 2017. The water quality data for Peachland Creek that has been collected for the past several years near the Peachland Creek intake is indicating a significant increase in turbidity during the spring freshet. As a result, Peachland has been issuing a boil water advisory every year during this period. Inspections by District staff have confirmed that it is not related to the zip line operation or any other activities near the intake. Peachland's Watershed Assessment for Drinking Water Source Protection Plan, 2010, also recommended that Peachland undertake an assessment of the current habitat and sediment sources on Peachland Creek. It is proposed to complete a channel assessment of the creek channel from the Peachland Reservoir Dam downstream to the intake after the spring freshet in 2014. The purpose of the assessment is to document the channel conditions, slopes, identify (and GPS) active and potential sources of sediment in the channel and any disturbances that could affect water quality and identify sensitive habitat, and estimate sediment loads. The assessment would allow for prioritization of risk reduction efforts and include recommendations for remedial actions to reduce the sediment load in the channel with estimated costs for those sites that can be addressed. The overall intent of the assessment is to reduce the sediment/turbidity in the creek at the District intake that will result in improved water quality and reduced operational costs for the District. Staff Notes: Directly addresses a drinking water quality problem and advances the District's Master Water Plan. **Recommended Funding:** \$29.800

#### **Project Budget:** \$39,400

#### Project Title: Water Leak Detection Equipment

#### Organization: **District of West Kelowna**

**Project Goals:** The District of West Kelowna's soon to be adopted Water Master Plan indicates that 21% of the annual volumes used in the municipality go unaccounted for due to leaks in the distribution network. The plan calls for "focused identification of the leaks" to ensure the long term sustainability of the system. The District of West Kelowna's will prioritize leak reduction investigations, taking into account the age of infrastructure, system pressure losses and statistical information provided in the Water Master Plan. The equipment will be given to qualified water operators who will conduct investigations and report back with their findings to the Utilities Supervisor. The Utilities Department will prioritize leak repairs in relation to the maintenance and operational needs of the water system as a whole. Over the long term, consistently faulty and aging pipes will be replaced. The plan proposes a high priority be placed on a renewal and replacement program at a cost of \$1.8 million per year.

#### Staff Notes: This type of equipment was used in a similar project at RDCO last grant cycle, with great success. Leak detection leads to large savings in electricity costs for pumping. **Project Budget:** \$45,000 **Recommended Funding:** \$25,000

Project Title:	Biosolids Land Application at Brenda Mines
Organization:	Regional District of Central Okanagan
Project Goals:	The project aims at studying the impacts to water quality in Okanagan Lake and Trepanier
	Creek basin associated with the land application of biosolids and revegetation of the Brenda
	Mines site. Biosolids from the Westside Regional Wastewater Treatment Plant will be applied

Staff Notes:	to the tailings dam at the Brenda Mines site to provide a source of organic material and nutrients required to reforest the site from its current sparsely vegetated state. This project has the potential to increase natural water filtration through reforestation. The proposal for the first year is to collect baseline data and establishing monitoring sites and sampling procedures.		
Project Budget:	\$190,000	Recommended Funding: \$25,000	
Project Title: Organization: Project Goals:	Sand Reinforcement Beach Restoration City of Kelowna To use a sustainable approach to protect an 120m long section of Okanagan Lake foreshore from storm events in order to prevent further upland erosion of public land; to mimic natural appearances and processes, i.e., long shore sediment transport; to add potential fish rearing substrate; to maintain habitat connectivity between the land and the lake, (i.e., to introduce no barriers to wildlife movement); to add riparian plantings to help stabilize the shoreline and add habitat benefit; and to limit impacts and disturbance to existing property and to adjacent beach front property owners.		
Staff Notes: Project Budget:	An innovative approach to shoreline erosion, which h \$192,000	as the potential to improve water quality. Recommended Funding: \$20,000	
Project Title: Organization: Project Goals:	Regional District Floodplain Assessment and Mapping Regional District of Central Okanagan Due to changes in flood hazards over time, (e.g., changes in forest cover, watershed hydrology, riverbed geomorphology) flooding poses high risks to the region's water quality, economic vitality, infrastructure, environment, safety, property owners and communities. The aim of the project is to review and assess floodplains in the regional district to include the creation of a spatial database of flood hazard prone watercourses, identification of flood risks, the main sources, areas liable to flood and identification of flood zones along the watercourses (areas for the probability of flooding). Floodplain management will assist in protecting water resources		
Staff Notes:	from contamination and maintain or enhance water quality. This project directly supports improvement of a critical issue. Methods developed through this project may be used valley-wide to mitigate the risk of future flood damage in our		
Project Budget:	communities. \$40,000	Recommended Funding: \$20,000	
Project Title: Organization: Project Goals:	Fostering Collaboration to Promote a Culture of Lan Okanagan Xeriscape Association The project aims to reduce outdoor residential was strategies that envision the valley's watershed as connections with stakeholders in the North and homeowners and landscape professionals can be re- on-line resources that are designed to shift lan conservation practices. Because valley-wide collabor cultural standards of landscaping, the OXA is also multi-jurisdictional partners to promote the sale of	a shared whole. By strengthening OXA's South Okanagan, a larger audience of ached with OXA's education program and dscape perceptions and increase water oration is important to developing shared initiating an innovative pilot project with	
Staff Notes:	level. OXA has been a strong partner, developing a number in reducing outdoor water consumption throughout valley-wide benefit.		
Project Budget:	\$54,510	Recommended Funding: \$18,000	
Project Title: Organization: Project Goals:	Treated Effluent Irrigation at Bylands Nursery Regional District of Central Okanagan The project aims at assessing and testing the feas	ibility of using treated effluent from the	

	Westside Regional Wastewater Treatment Plant as a source of irrigation water for the neighbouring Bylands Nursery property. The ultimate goal of this project would be to eliminate the need for Bylands to pump water from Okanagan Lake to irrigate its nursery on Gellatly Road.		
Staff Notes:	This project has the potential to reduce water consumption and treatment costs, as well as innovatively using treated effluent in a responsible manner. Good partnership between local		
Project Budget:	government and industry. \$50,000	Recommended Funding: \$16,000	
Project Title: Organization: Project Goals:	Baseline Biophysical and Ecological Resource Management Plan Mission Creek Restoration Initiative MCRI is a multi-phase, multi-stakeholder project to restore lower sections of Mission Creek. The primary goal is to restore fish and wildlife stocks and habitat. Complementary objectives are to conserve and expand biodiversity and species at risk, improve flood protection, and enable and encourage community stewardship. During this phase of the project, MCRI will work with a consultant to conduct a detailed baseline biophysical inventory (BBI) along Mission Creek from Gordon Drive to Casorso Road. Information gathered will guide the preparation of an ecological resources management plan before dike setback and habitat restoration commence at a recently acquired property adjacent to Mission Creek (3830 Swamp Road).		
Staff Notes:	This portion of the project will help ensure that the restoration is done in an environmentally safe manner. This will help protect the ecological resources currently offered by the creek, while restoring other resources such as flood mitigation, water filtration and fish habitat.		
Project Budget:	\$40,000	Recommended Funding: \$15,790	
Project Title: Organization: Project Goals: Staff Notes:	Road Drainage Assessment for Vernon Creek Watershed District of Lake Country To address the priority Risk Management Actions identified in the Source Water Assessment. Traverse the Beaver Lake Main Road and other non-status roads upstream of the intake and below Beaver Lake to inspect drainage features and to provide an assessment of potential hydrologic connection to downslope landslide features. The condition of existing culverts and road maintenance recommendations would be provided. Traverse the top of ravine bank above the north side (right bank) of Vernon Creek upstream of the DLC intake using GPS to accurately map and to correlate with potential drainage concerns originating upslope. Incorporate GPS data, including spatially accurate photographs, into a GIS based database; and complete a summary report of the findings, including spatially accurate mapping. This project builds on previous watershed assessment and landslide mitigation work in this watershed.		
Project Budget:	\$10,398	Recommended Funding: \$10,000	
Project Title: Organization: Project Goals:	Okanagan Habitat Connectivity Okanagan Collaborative Conservation Program Improving Okanagan Habitat Connectivity "How educational outreach initiative that will provide the results and recommendations from the Biodiversity help the general public to understand why connecte are an essential part of maintaining biodiversity an Okanagan region. Both the SOSCP and the OCCP a Strategy for the Okanagan region. The strategy pron region and provides a framework for considering c and watersheds that go beyond municipal or rural The two year project we are presenting here is part Conservation Strategy. Year 1 will take place in the and South Okanagan Regional Districts.	tools to understand and take action on the Conservation Strategy project and also to ed ecosystems and wildlife habitat corridors d ecosystem services such as water in the re working on a Biodiversity Conservation notes a "big-picture" landscape view of the conservation options for entire ecosystems boundaries and includes all land-tenures. t of the implementation of the Biodiversity	
Staff Notes:	This multi-year project has done much to improve co	ollaboration and information gathering for	

Staff Notes: This multi-year project has done much to improve collaboration and information gathering for

conservation values throughout the valley. It is one of the programs with the most basin-wide focus.

Project Budget: \$172,380

\$10,000 Recommended Funding:

### **Regional District of Okanagan Similkameen** . ا م ا م ا

	50 Total Requested: \$191,350 Recommended funding: \$64,050	
Project Title: Gro	ound Source Water Assessment and Protection Plan	
Project Goals: Oliv wel grou prel dev Guid	wn of Oliver ver operates the second-largest supply of groundwater in the Okanagan Valley. Ils are relatively shallow and located in developed areas. Development of undwater protection strategy has been a goal for the community for man diminary steps to realizing this goal began several years ago. Interior Hea velopment of protection plans following the "Comprehensive Source to Tap ideline" and it is the objective of this project to use community engagement co ence to complete Modules 1, 2, 7 and 8 of the Guide.	a long-term y years and lth supports Assessment
Staff Notes: This	s project will directly improve the ability to protect ground source drinking wate ilar to many Source-to-tap assessments that have been funded.	r. This is
	5,000 Recommended Funding:	\$15,000
Organization: Reg	gional Water Use and Conservation Bylaw gional District of Okanagan Similkameen	
unif that futu Sim and sust incl	e creation of a Region-Wide Water Use and Conservation Regulation Bylaw is fy water use standards within the Regional District operated water systems, he t there is a sufficient quantity of clean and healthy quality water available nov- ure for all user sectors and environmental needs within the Regional District on hilkameen, which will support healthy communities and a robust economy. This d enhance the quality of life for our residents through water conservation/ef tainable water management, integration of drought management recom- lusion of Cross Connection Control (CCC) requirements and consistent interpre- ulations.	Iping ensure w and in the of Okanagan- s will protect fficiency and mendations,
-	s project has the potential to be a leap forward in water protection in the Okana	
time Wat	ely given the Water Sustainability Act, and may assist in the development of a vater Sustainability Plan in the future. It is innovative, and could inform other local vernments wishing to adopt similar policies	alley-wide
time Wai gov		alley-wide
time Wai gov Project Budget: \$40 Project Title: Wai Organization: Reg Project Goals: The bee	ter Sustainability Plan in the future. It is innovative, and could inform other local vernments wishing to adopt similar policies. 0,000 Recommended Funding: ter Ambassador Program gional District of Okanagan Similkameen e Water Ambassador program that the RDOS has developed over the past sever en a huge success benefiting communities within the Okanagan Basin Wat	alley-wide \$10,525 ral years has tershed. The
time Wai gov Project Budget: \$40 Project Title: Wai Organization: Reg Project Goals: The bee proj add disc Frie eme grou in n con alre Oka	ter Sustainability Plan in the future. It is innovative, and could inform other local vernments wishing to adopt similar policies. 0,000 Recommended Funding: ter Ambassador Program gional District of Okanagan Similkameen e Water Ambassador program that the RDOS has developed over the past sever en a huge success benefiting communities within the Okanagan Basin Water orgram focuses on water conservation using a community-based education oried dressing residents on the local sprinkling restrictions, engaging the agricultu cussing water use, augmenting and participating in workshops with partners ends of Summerland Gardens and the Naramata Community Association and erging conservation and quality issues with water sources. In the communities, und patrolling', the Water Ambassador has been able to observe first hand beh modifying behaviors and look at what steps could be taken in the future to com- servation habits. In 2014 the RDOS would like to continue and expand upon the eady gathered by this extremely successful program within the regional commu- anagan Basin Watershed.	alley-wide \$10,525 ral years has tershed. The ented model, ral sector in such as the d addressing with `on the aviors, assist ntinue water momentum
Project Budget: \$40 Project Title: Wat Organization: Reg Project Goals: The bee proj add disc Frie eme grou in n con alre Oka Staff Notes: This	ter Sustainability Plan in the future. It is innovative, and could inform other local vernments wishing to adopt similar policies. 0,000 Recommended Funding: ter Ambassador Program gional District of Okanagan Similkameen e Water Ambassador program that the RDOS has developed over the past sever en a huge success benefiting communities within the Okanagan Basin Wate gram focuses on water conservation using a community-based education oried dressing residents on the local sprinkling restrictions, engaging the agricultu cussing water use, augmenting and participating in workshops with partners ends of Summerland Gardens and the Naramata Community Association and erging conservation and quality issues with water sources. In the communities, und patrolling', the Water Ambassador has been able to observe first hand beh modifying behaviors and look at what steps could be taken in the future to cor servation habits. In 2014 the RDOS would like to continue and expand upon the eady gathered by this extremely successful program within the regional commu	alley-wide \$10,525 ral years has tershed. The ented model, ral sector in such as the d addressing with `on the aviors, assist ntinue water momentum

Project Title: Organization: Project Goals: Staff Notes:	Source Assessment of Skaha Lake KID Intake Kaleden Irrigation District To complete a comprehensive Source Water Assessment and Protection Plan of the KID's intake on Skaha Lake, to meet requirements of Interior Health Authority that mandates the assessment of risks and recommends protective measures for the water system source. This project will directly improve lake-source drinking water. This is similar to many source-to- tap assessments that have been funded.		
Project Budget:	\$20,000	Recommended Funding:	\$10,000
Project Title: Organization: Project Goals:	Okanagan River Restoration Initiative – Water Qual Okanagan Nation Alliance The overall goal of the ORRI restoration work is to quality and quantity that has been lost, returning natural conditions. ORRI works involve relocating establishing meanders and pool/riffle sequences, of historic floodplains and replanting riparian vegeta improve water quality; to create self-sustainable, wildlife; and to enhance the human relation with the spawning. This fourth Phase of ORRI focuses on the creation of Penticton channel area because fish spawning hal Okanagan Basin. This project aims the construction create high quality fish habitat; provide public vi spawning; and reduce the abundance of introdu watermilfoil. Water Quality Assurance during Construction Work OBWB funding): During construction, the project aims to limit as immediate negative perturbations on water quality is is to assure the preservation of water quality in the works.	regain some of the Okanagan s channelized river portions b the dikes, lengthening the creating nature-like features, ation. The ORRI long term p complex and diverse habitat the river ecosystem. ORRI-Penti naturally-like fish spawning fe bitat is very limited in this pro- on of two spawning platform ewing opportunities of salmo ced exotic species, such as a (portion of the project involv- much as possible the risks and the surrounding environm e Okanagan River and Skaha La	back to more channel, re- reconnecting burpose is to for fish and cton Channel eatures in the bortion of the his which will on and trout the Eurasian ving potential ent. The goal ake during all
Staff Notes:	This very important multi-year project focusses on direct action to restore large sections of the Okanagan River. Funding from the OBWB will be used to leverage funding from the U.S. bringing new money into the Okanagan.		
Project Budget:	\$362,220	Recommended Funding:	\$10,000
Project Title: Organization: Project Goals: Staff Notes: Project Budget:	Park Rill Riparian and Aquatic Assessment Okanagan Similkameen Stewardship Society The proposed project will increase an understanding based ecological values along the Park Rill waterco term results of this project include identification aquatic species, water quality concerns will b opportunities are identified, prioritized and some a and aquatic species and/or their habitat are identifi Friends of Park Rill are engaged and conserving habit The Friends of Park Rill and OSSS are community bas in the past at improving the source protection around demonstrate the ability of community groups to enh \$44,150	urse near Oliver, BC. Immedia and mitigation of threats to e identified and addressed, addressed immediately, threa- ied, ceased, removed or mitig tats and water in their commu- sed organizations that have be ad their waterway. This type of	ate and long- riparian and restoration ts to riparian tated and the nity. en successful project