



IDAHO WASHINGTON AQUIFER COLLABORATIVE

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Mike Galante - President

Ty Wick - Vice President

Rob Lindsay - Secretary

Alan Miller - Treasurer

The Idaho Washington Aquifer Collaborative (IWAC) works to maintain and enhance water quality and quantity for present and future generations by developing management strategies which benefit the Spokane Valley Rathdrum Prairie Aquifer and the Spokane River region.

May 10, 2016, 1:30 – 3:15 PM, Liberty Lake Sewer and Water District
Representatives Present

	Organization	Representative	Email Address
	Avista	Michele Drake	Michele.drake@avistacorp.com
	Avondale Irrigation District	Bob Chandler	bobchandlercda@gmail.com
	Bar Circle S Water Company	Rob Turnipseed	avondalecon@frontier.com
	City of Coeur d'Alene	Terry Pickel	tpickel@cdaid.org
✓	City of Post Falls	John Beacham Matthew Isch	jbeacham@postfallsidaho.org misch@postfallsidaho.org
	City of Spokane RPWRF	Mike Coster	mcoster@spokanecity.org
	City of Spokane Water Department	Dan Kegley Bill Rickard	dkegley@spokanecity.org brickard@spokanecity.org
	Coeur d'Alene Tribe of Indians	Laura Laumatia	llaumatia@cdatribe-nsn.gov
✓	Consolidated Irrigation District No. 19	Shane Sheppard	consolidatedirrigation@comcast.net
	East Greenacres Irrigation District	Ron Wilson	ron@eastgreenacres.org
	Hayden Area Regional Sewer Board	Ken Windram Shirley Carter	ken@harsb.org
✓	Hayden Lake Irrigation District	Alan Miller	alan@haydenirrigation.com
✓	Liberty Lake Sewer and Water District	BiJay Adams Jeremy Jenkins	bijay@libertylake.org jjenkins@libertylake.org
	Moab Irrigation District	Kathleen Small	kathleensmall@comcast.net
✓	Model Irrigation District	Jim Lahde Rick Neal	jim@modir.org rick@modirr.org
	Modern Electric Water Company	Bryan St Clair	bstclair@mewco.com
✓	North Kootenai Water & Sewer District	Mike Galante	mikeg@nkwsd.com
✓	SAJB Program Leader	Tonilee Hanson	sajbinfo@gmail.com

√	Spokane Co. Water Resources	Rob Lindsay	rlindsay@spokanecounty.org
√	Spokane County Water District No. 3	Ty Wick	scwd3@comcast.net
√		Kelly Williquette	scwd3engr@comcast.net
	Spokane Tribe of Indians	Brian Crossley	crossley@spokanetribe.com
	Vera Water and Power	Todd Henry	thenry@verawaterandpower.com
	Guest Speakers		
√	City Idaho Water Engineering	Bob Haynes	bob@idahowaterengineering.com
√	Washington State University	Melanie Thornton	melanie.thornton@email.wsu.edu
	Guests		
√	City of Spokane Valley	Henry Allen	hallen@spokanevalley.org
√	U of I Ext. Water Education	Jim Ekins	jekins@uidaho.edu

AGENDA

Welcome and Introductions – President Mike Galante opened the meeting and welcomed everyone.

Approval of Meeting Minutes – President Galante called for additions or revisions to the Minutes for April 12, 2016. Hearing none the minutes were approved as submitted.

Financial Report – Treasurer Alan Miller reported a YTD Account Balance of \$23,169.34. Income received from Membership Dues YTD \$12,500.00. Interest Income YTD \$0.85. Expenses YTD \$127.70.

Old Business

Update on Funding Proposal for Public Awareness Videos - President Mike Galante reported that CAMP meets on July 20th and is prepared to recommend that IDWR approve \$10,000 to co-fund “Drippy” the IWAC water education and awareness video proposal. Alan Miller presented the co-funding proposal to the Kootenai County Aquifer Protection District. It was well received and was, at the time of this meeting, in the approval process. Rob Lindsay, Spokane County Environmental Services, is willing to contribute \$5,000 to the video project with the stipulation that other WA agencies also contribute. The City of Spokane, and the Department of Health and Stormwater Utilities are possible co-funders. Since the May 2016 IWAC meeting both APD and IDWR have approved the funding requests.

IWAC appreciates the support of Neely Miller, CAMP members, the Idaho Water Resources Board, the Aquifer Protection District and Spokane County Environmental Services.

Drippy the Water Drop – Storyline development will continue once funding for the videos has been secured. If you are interested in participating in developing the storyline, please contact President Galante.

Mental Models to Develop Targeted and Effective Messaging – Melanie Thornton, WSU reported that the mental models work is in the analysis phase. Concept maps have been started and may be incorporated into the proposed summer WSU Water Workshops.

Planning Summer Workshops - Next Steps for Future Water Management – Dr. Allyson Beall King and Melanie Thornton will hold two half day workshops this summer for IWAC members. The workshops are intended to deepen our work on meeting IWAC goals including:

- Preserving the aquifer water quality and quantity
- Identifying strategies for managing future water use.
- Developing realistic solutions to avert potential water conflicts between ID and WA

Discussion followed including these ideas, suggestions and questions:

Water Conservation Calculator

- Develop a web-based water conservation calculator that is specific to our region. It should be a simple model for customers to calculate their water use per day and per year for both indoor and outdoor activities. A tangible tool is needed that shows the number of gallons lost and the cost of wasting water.
- GIS method: for a given parcel, identify the roof and hardscape and calculate the irrigable land on the parcel and how much water per month is enough to maintain the landscaping.
- Soil conditions dictate water demand. Amendments, organics and top soil may be needed to improve soil conditions and improve water retention.
- The model would need to be normalized with degree days.

Political/Regulatory

- Political will is required to pass an ordinance for mandatory lawn watering times, water sensors, sprinkling systems and conservation rates.
- Grassy swales should have grass replaced with drought tolerant native plants (xeriscaped)
- What enforcement is needed? How much enforcement is affordable?

Irrigation system Standards and Inspection

- Landscapers, who install yard sprinkling systems, need to be certificated and regulated as water use professionals. Irrigation design standards are available. Criteria for sprinkler installation specific to this region needs to be designed and inspection required. Currently turf is over watered and sprinkling systems are not designed effectively. Las Vegas, NV and Tuscon, AZ inspect irrigation systems.
- What would it take to implement a plan to educate and advocate for regional sprinkler design standards?
- How does someone determine if the sprinkler system is efficient?

Climate Change and Snow Pack

- How will we determine the impact of climate change on the Spokane river?
- How do we plan for and manage the new normal?
- Build on the work of John Porcello to evaluate snow pack in relation to the transport of heavy metals into Coeur d'Alene lake and Spokane river flow levels.

- Can we model the amount of water conservation needed as related to the snow pack? One tool might plug in weather scenarios and look at flows in the Coeur d'Alene and St. Joe rivers?
- Can we plot the trajectory of the climate model and plan for that event?

Messaging

- We need a more effective message for the public about why they should conserve water. For example, we can tie conservation during summer months to stream flow. Save water from the aquifer to protect river flow during the hot summer months is a message the public can buy into because low flow in the river is visible. Discussion of this idea included the assertion that the public will not be able to see a direct impact on the river from their conservation and may lose interest in conservation.
- Educate the public about BMPs and the overarching benefits

Purveyor Survey of Conservation Measures

- Purveyors need an inventory of all conservation measures tried and the measurable change that resulted from each idea. For example, odd even days for watering did not change water consumption but it did have an effect on peak demand for the purveyor.
- How many more customers can your water system serve?

Cost of Water

- Water is inexpensive enough that people choose to pay the water bill rather than invest in the cost of a new sprinkler system.

New Business

Construction Season Recess – IWAC will recess until September 13, 2016. Updates and announcements will be sent via email.

Cleaner Water Faster Signs - Jim Ekins, Area Water Educator, UI Extension Northern District shared draft designs of eight signs (2 x 3 feet) that will be installed along the Centennial Trail and other locations. Each sign contains a general public message with specific information on a topic, 'Did You Know' information and 'You Can Help' suggestions as well as a QR code to Learn More. Collaborating partners are also identified on each sign. Sixteen signs are in production and the eight shared today are titled as follows:

- Bio Swales Naturally Filtering Polluted Water
- Protecting Liberty Lake Using Native Flora to Protect Our Waterways
- Reducing Run-Off Spokane Valley mall Forest Protection
- The Riparian Buffer Earth's Natural Filtration System
- Urban Forestry Keeping Our cities and Waterways Clean
- Urban Stormwater Keeping Pollution Out of Our Waterways
- Wastewater Reclamation the Reclamation Plant's Past and Future
- Wastewater Reclamation Phosphorus Removal and Its Implications

[View draft signs here.](#)

Handouts: Agenda, Treasurer's Report, April Meeting Minutes