



IDAHO WASHINGTON AQUIFER COLLABORATIVE

iwac.us

P.O. Box 1822
Post Falls, ID 83877

Suzanne Scheidt - President
BiJay Adams - Vice President
Rob Lindsay - Secretary
Ron Wilson – Treasurer
Terry Pickel – Past President
Dan Kegley – President Emeritus

Our Water. Our Future.

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 watersheds.

November 14, 2023, Location: Consolidated Irrigation District, 120 N. Greenacres Rd. Spokane Valley, WA 99016 and via Zoom. Representatives present are indicated below.

	Organization	Representative	Email Address
	Avondale Irrigation District	Bob Chandler	bobchandlercda@gmail.com
	Bar Circle S Water Company	Rob Turnipseed	avondalecon@frontier.com
✓	City of Coeur d'Alene Water, Director	Kyle Marine	kmarine@cdaid.org
✓	City of Post Falls	John Beacham Craig Borrenpohl Alyssa Gersdorf	jbeacham@postfallsidaho.org cborrenpohl@postfallsidaho.org alyssag@postfallsidaho.org
✓	City of Spokane Water Department	Doug Greenlund	dgreenlund@spokanecity.org
	Coeur d'Alene Tribe of Indians	Rebecca Stevens	rstevens@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	ken@harsb.org
	Hayden Lake Irrigation District	Branden Rose	branden@haydenirrigation.com.
✓ ✓	Liberty Lake Sewer and Water District	BiJay Adams Jeremy Jenkins	bijay@libertylake.org jjenkins@libertylake.org
	JUB Engineering	Cory Baune	cbaune@jub.com
	Moab Irrigation District	Scott Inch	moabirr20@gmail.com
✓	Model Irrigation District	Rick Neal Ryan Neal	rickaneal@gmail.com ryan.o.neal509@gmail.com
✓	Modern Electric Water Company	Jason Beesley	jbeesley@mewco.com
✓	North Kootenai Water & Sewer District	Suzanne Scheidt Paul Tucker Dave Duthie	suzannes@nwwsd.com pault@nkwsd.com daved@nkwsd.com
✓	SAJB Program Leader	Tonilee Hanson	sajbinfo@gmail.com

✓	Spokane Co. Environmental Services	Rob Lindsay	rlindsay@spokanecounty.org
	Spokane County Water District No. 3	Kelly Williquette Justin VanDyke	scwd3engr@comcast.net jvandyke@scwd3.org
✓	Vera Water and Power	Todd Henry	thenry@verawaterandpower.com
✓	Whitworth Water District	Tim Murrell Matt Wright	tim@whitworthwater.com matt@whitworthwater.com
✓	IWAC Past President	Terry Pickel	tpickel@live.com
✓	IWAC President Emeritus GSI Water Solutions Consultant	Dan Kegley	dkegley@gsiws.com dmkegs@outlook.com
✓	IDEQ - SWP	Mark Elliot	Mark.Eliot@deq.idaho.gov
✓	IDEQ	Seth Oliver	Seth.Oliver@deq.idaho.gov
✓	U of I Extension	Jim Ekins	jekins@uidaho.edu
	WA DOH Drinking Water	Scott Mallery	Scott.Mallery@doh.wa.gov
✓	WA Dept. of Ecology	Chris Beard	chbe461@ecy.wa.gov
✓	Parsons Behle & Latimer	Norm Semanko	NSemanko@parsonsbehle.com

AGENDA

Welcome and Introductions – IWAC President Suzanne Scheidt welcomed everyone and called the meeting to order at 1:35 pm.

Agenda Additions or Revisions – No changes.

Approval of Meeting Minutes – President Scheidt called for additions or corrections to the October 10, 2023, meeting minutes. Hearing none, the September meeting minutes were approved by consensus.

Financial Report – Treasurer Ron Wilson presented the financial report. A copy of the Treasurer's report was sent out prior to the meeting. The following invoices were paid.

- \$1,065.00 Anderson Bros CPA, Resolution with IRS.
- \$ 500.00 Hannah Walker for Drippy the Water Drop Booklet
- \$2,500.00 SAJB Reimbursement for Administrative Services provided by Tonilee Hanson

The Mountain West Bank Balance as of 10/31/23 was \$21,486.82.

President Scheidt called for discussion and the Treasurer's Report was approved by consensus.

Treasurer Wilson is working with Mountain West bank to update the checking signature cards to remove Past President Terry Pickel as a signatory and add President Suzanne Scheidt. Let the minutes hereby verify that the members of IWAC agreed by consensus on 11/16/23, to up-date the Mountain West bank checking signature card to reflect changes in IWAC officers; Suzanne Scheidt, President, Bijay Adams, Vice President, Rob Lindsay, Secretary, and Ron Wilson, Treasurer.

Old Business

DEQ Source Water Protection Grant – The Final Report for the Media Campaign was submitted on 10/19/23. The final report detailed the media campaign expenditures from April through September and included ad images and analytics from Phase 3 Digital and the [Outdoor Watering Nerds](#) Website.



Water Conservation Media Campaign
April – October 2023

Month	IWAC \$2,000 / Month	SAJB \$2,100 / Month
April	Protect the Aquifer Story Map	Sprinkler System Checkup
May	Leak Detection	Repair and Retrofit
June	Drought Tolerant & Native Plants	Smart Controllers & Sensors
July	Calculate Water Needs	Tips to Save Water
August	Fertilizers, Pesticides & Herbicides	Calculate Water Needs
September	Drip Systems & Soaker Hoses	Backflow Protection
October		DIY and Find a Professional

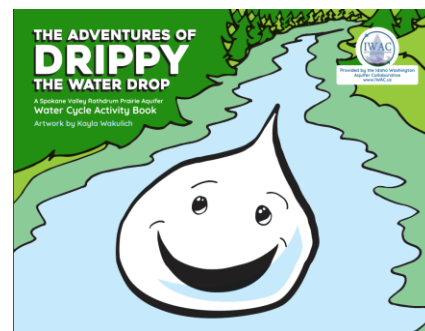
Idaho Washington Aquifer Collaborative 2022-2023 DEQ Grant Financials

The IWAC Budget with DEQ Source Water Protection grant S787 expenditures and in-kind contributions from the Spokane River Forum and the Spokane Aquifer Joint Board is shown to the right.

IDEQ Source Water Protection Grant reimbursement of \$22,800.00 has not yet been received.

	IWAC	SAJB	SRF	Sub-Total
PM Hanson Nerds Website Development	\$0.00	\$6,258.44	\$2,474.50	\$8,732.94
Phase 3 Digital Media Campaign Management	\$0.00	\$793.50	\$90.90	\$884.40
Salaries Matching Contribution Sub Total	\$0.00	\$7,051.94	\$2,565.40	
	IWAC	SAJB	SRF	Sub-Total
Anne Francis Web Design - Nerds October 2022 - April 2023	\$0.00	\$0.00	\$5,274.45	\$5,274.45
Hannah Walker Static and Video Ad Creative	\$2,800.00	\$2,800.00	\$0.00	\$5,600.00
KSPS Video Production four 20-second spots	\$8,000.00	\$0.00	\$0.00	\$8,000.00
KSPS Video Air time	\$0.00	\$1,500.00	\$0.00	\$1,500.00
Phase 3 Digital Video Ad Placement	\$1,200.00	\$1,300.00	\$0.00	\$2,500.00
Phase 3 Digital Static Ad Placement	\$10,800.00	\$15,500.00	\$0.00	\$26,300.00
Contractual Sub Total	\$22,800.00	\$21,100.00	\$5,274.45	
	IWAC	SAJB	SRF	Total
DEQ Water Conservation Grant Total	\$22,800.00	\$28,151.94	\$7,839.85	\$58,791.79

Drippy the Water Drop Activity Book – The Number of Copies to Print. The Water Cycle Activity Book is ready to print, thanks to Hannah Walker's graphic design work. Tonilee Hanson requested \$2,000.00 for printing. President Scheidt called for discussion. \$2,000.00 for printing costs was approved by consensus. Rob Lindsay, Spokane County Public Works, also committed \$2,000.00 for printing. The City of Spokane and SAJB will also order copies which will lower the per copy price. (As of 11/19/23 the order was placed, and each copy will cost approximately \$1.04. IWAC should receive 1,925 copies).



New Business

Discussion – Funding and Updating the 2007 USGS Aquifer Study – In preparation for this discussion, President Suzanne Scheidt met with Dan Kegley, John Porcello, Guy Gregory, Bob Haynes, Seth Oliver, and Rob Lindsay. President Scheidt skillfully guided the discussion with a prepared presentation and questions which have been included below for clarity. President Scheidt started by reviewing IWACs Purpose and Goals.

***IWAC PURPOSE-** The purpose of the Idaho Washington Aquifer Collaborative (IWAC) is to work together to maintain and/or enhance water quality and quantity for present and future generations by developing management strategies which benefit the Spokane Valley Rathdrum Prairie Aquifer (as defined by the USGS, "the Aquifer") and the Spokane River region. IWAC will facilitate regional dialogues and studies that result in recommendations for policy directions and shared stewardship of the Aquifer and the Spokane River, in a collaborative manner.*

***IWAC GOALS -**The objective of developing management strategies is to address regional water supply and demand needs over the next 50 to 100 years. The specific goals of IWAC are organized within the categories of organization, water quantity, conservation, water quality, and public awareness and education.*

Bistate Aquifer Study – Survey Questionnaire Discussion

Should the 2007 USGS Model be updated?

- Technical Support
 - 18 years of additional data (2007 data set extended through 2005)
 - Agrimet stations data (Bureau of Reclamation) were not available in 2007
 - Expand to include RPA modeling throughout Idaho.

- Political implications
- Future Water Right implications
- Option to update 2007 USGS Model through USGS Modular Hydrologic Model (MODFLOW)
 - Context of USGS Model within Chevron Doctrines if bistate conflict led to Supreme Court.
 - Bearing on bistate support.
 - MODFLOW code has undergone significant revisions since 2007.
 - Fundamentals may not have changed.
 - Additional inputs now available that weren't in 2007.
- Alternate Hydrologic Models to consider
 - Flexibility to explore alternate models outside MODFLOW
 - Again, include additional data inputs not available at the time the 2007 USGS model was produced.
 - Bearing on bistate support?
 - Multiple aquifer flow models acceptable?
 - Planning tool - less preferable for legal purposes?
 - Legal consult – same/lesser potential to impact future water rights?
 - Political conflicts as a planning tool?
- Additional modeling to fulfill IWAC goals and objectives of developing management strategies to address regional water supply and demand needs over the next 50 to 100 years.
 - Population Growth Modeling
 - Climate Change Scenario Modeling
- Beneficial Future Modeling Tools/Purpose
 - Tool for IWAC members and purveyors in forecasting future demand based on climate and population growth scenarios?
 - Planning tool to reduce the risk of future interstate water conflicts or interstate compacts?
 - Additional data for forecasting Spokane River levels?
 - Other purposes?
- Develop statement of purpose for clarification when pursuing funding opportunities.
- IWAC “organized 501(C)(3) corporation made up of Idaho and Washington water purveyors”.
- Increase purveyor IWAC member participation.
 - IWAC-SAJB joint interest in co-hosting CEU 3-hour training on the history behind the development of the 2007 USGS Model.
 - The origins of IWAC to avoid bistate water conflicts escalating to federal court.
 - Fee for training?
 - Speaker suggestions?

Discussion of updating the 2007 USGS Bi-State Aquifer Model was robust and expansive. Some key points are included below.

- Members agreed that updating the 2007 USGS SVRP Aquifer groundwater model was aligned with IWAC's Purpose and Goals and gave President Scheidt a consensus agreement for moving forward.
- The status of pending North Idaho water right adjudications quantifying minimum stream flows to Lake Coeur d'Alene was raised and discussed. It is a complex issue and has not been resolved. It was noted that an update to the bistate model may not coincide with adjudication. Norm Semanko provided clarification on distinctions between ground water and surface water in the adjudication process.
- The SVRP aquifer boundaries in Idaho are different depending on the study and housing developments outside of the administrative 5-acre rule boundaries are increasing the number of homes per acre.
- Seth Oliver indicated DEQ uses the 2007 USGS political boundaries.

- What is the intention of a new study? We can't go before a judge in protective actions if the intention is not specified.
- How would a new study account for the fact that the transition from crop irrigation to housing developments has resulted in a decrease in water use in some districts?
- The new MODFLOW modeling software provides smaller grids and offers more finite particle tracking.
- Impacts of wells pumping near the Spokane River was studied by [Ralston](#) and [GSI Water Solutions](#).
- USGS is expensive and overbooked. What research entity would be acceptable to both ID and WA so that a new SVRP Aquifer study would produce acceptable results?
- Dan Kegley mentioned Modflow would be cohesive for bistate support.
- Other people / agencies to contact: Dan Sturgess IDWR, Alexis Clark Idaho Geologic Survey, Tribes, NGO, ...
- Initial discussion on drafting IWAC's Purpose Statement for updating the BiState Aquifer Model including but not limited to:
 - Tool for forecasting future demand based on climate and population growth scenarios.
 - Tool to reduce risk of future water interstate conflicts/compacts.
 - Tool for particle tracking.
 - Further discussion required at December meeting to draft IWAC's purpose statement.
- Dan Kegley suggested that IWAC look at the 2007 USGS Report and the unanswered questions.
- What would be the value to IWAC to update the model?
- How much would it cost?

Members agreed that the next step is to clearly define IWAC's purpose for a new Bi-State Aquifer Study. This will be the focus of the December meeting.

Discussion on planning first field trip to visit purveyor infrastructure – Tabled to December 12, 2023

Updates Around the Table

Adjourn - There being no further business this 14th day of November 2023, the meeting was adjourned at 3:05 pm.

IWAC President, Suzanne Scheidt

IWAC VP, BiJay Adams

Handouts sent via e-mail: IWAC Agenda, IWAC October Meeting Minutes, DEQ Grant Expenditures. Previous IWAC meeting agendas, minutes, supporting documents and presentations can be found at <http://www.iwac.us/category/meetings/>.