



IWAC

Idaho Washington Aquifer Collaborative

January 14, 2014, 1:30 – 3:40 PM, Liberty Lake Sewer and Water District
 Officers: President Mike Galante; VP Ty Wick; Secretary Bryan St. Clair; Treasurer Alan Miller
 Representatives Present

	Organization	Representative	Email Address
√	Avista	Linda Kiefer	Linda.Kiefer@avistacorp.com
	Bar Circle S Water Company	Rob Turnipseed	avondalecon@frontier.com
√	City of Coeur d'Alene	Jim Markley	jimm@cdaid.org
√	City of Post Falls	Mike Neher	mneher@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	Bob Ashcraft	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	bijay@libertylake.org
√		Jeremy Jenkins	jjenkins@libertylake.org
	Moab Irrigation District	Kathleen Small	kathleensmall@comcast.net
√	Model Irrigation District	Jim Lahde	jimlahde@netzero.net
√	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
	Spokane Tribe of Indians	Brian Crossley	crossley@spokanetribe.com
√	Vera Water and Power	Todd Henry	thentry@verawaterandpower.com
	Guest Speakers		
√	Spokane County Utilities	Dave Moss	dross@spokanecounty.org
√	Spokane County Utilities	Ben Brattebo	bbrattebo@spokanecounty.org
√	Idaho Water Engineering	Bob Haynes	bob@idahowaterengineering.com

	Guests		
√	City of Spokane Valley	Henry Allen	hallen@spokanevalley.org
√	City of Millwood	Kevin Freeman	
√	City of Spokane Valley	Henry Allen	hallen@spokanevalley.org
√	Department of Health	Ed Parry	Ed.Parry@doh.wa.gov
√	Inland Northwest Land Trust	Cadie Olsen	COlsen@inlandnmlandtrust.org
√	UI Extension Water Education	Jim Ekins	jekins@uidaho.edu
√	Water Now Consulting	Toni Taylor	ttaylor@waternowconsulting.com

AGENDA

Welcome and Introductions - President Mike Galante opened the IWAC meeting and welcomed everyone. Representatives and guests introduced themselves.

Agenda Additions - President Galante called for additions or revisions to the Agenda and no changes were requested.

Approval of Meeting Minutes – The Minutes for December 10, 2013, were amended with corrections to page 5, the last bullet of the Stormwater portion of the discussion submitted via e-mail by Jim Ekins. Jim's revisions are included below and the revised minutes are available at <http://www.spokaneaquifer.org/wp-content/uploads/2014/02/IWAC-Meeting-Minutes-12.10.13-V2-Jim-Ekins-edits.pdf>

Jim Ekins, Laura Laumatia, Jeremy Jenkins and others have been looking at potential stormwater demonstration/research sites to increase knowledge about the effect of unique climatic and hydrologic attributes on BMP design around Coeur d'Alene. Businesses currently are charged a stormwater service fee if they discharge stormwater into the city's stormwater drainage system. Businesses that make changes to redirect stormwater to be managed on-site will not need to pay that fee. A stormwater ordinance passed by the City of Coeur d'Alene in late 1994 requires the use of BMPs to manage stormwater on-site for new commercial and new subdivision development. However, BMP design manuals are not as well developed as they are elsewhere. The group is also looking at a potential demonstration/research site on an un-vegetated BMP on the North Idaho Campus, adjacent to a community garden, to treat stormwater on site and possibly research treatment effectiveness for yet-to-be-determined pollutants of concern to help inform design options. The Bureau of Land Management is working with the City of Coeur d'Alene to consider additional demonstration swales to be placed in a new park by the river, with interpretive displays about stormwater to inform the public. Jim Ekins is helping to organize the group and will send out information.

Financial Report –Treasurer Alan Miller was absent due to shoulder surgery. A print copy of the Treasurer's report was available. No new expenses were paid. Interest Income of \$0.19 was added bringing the account balance to \$5,697.92.

Old Business

IWAC Logo Contest – A revised logo contest form was provided in the handouts. Everyone is encouraged to send the contest flier out to their contact lists. The primary focus will be on Community College and High School graphic design classes and professional artists.

Technical Facilitation – Bob Haynes began today in the role of technical facilitator guiding the Reclaimed Water & Reuse presentations and discussion.

New Business

Reclaimed Water Reuse

Spokane County Division of Utilities - Dave Moss presented an overview of the planning process which resulted in the June 26, 2009 Spokane County Reclaimed Water Use Study. Dave described the state of the art membrane technology used in the Spokane County Regional Water Reclamation Facility (SCRWRF) and comparison values for reclaimed water which exceeds “Class A” reclaimed water standards. “Class A” Reclaimed Water is the most regulated but least restricted for use. Dave provided the following list of possible uses for reclaimed water:

- Landscape Irrigation
- Irrigation of Non-Food Crops
- Irrigation of Food Crops
- Impoundments (Landscape and Recreational)
- Fish Hatchery Basins
- Decorative Fountains
- Flushing of Sanitary Sewers
- Street Cleaning
- Washing of Corporation Yards, Lots, and Sidewalks
- Dust Control
- Dampening of Soil for Compaction
- Water Jetting for Consolidation of Backfill around Pipelines
- Fire Fighting and Protection
- Toilet and Urinal Flushing
- Ship Ballast
- Washing Aggregate and Making Concrete
- Industrial Boiler Feed
- Industrial Cooling
- Industrial Process

Spokane County completed a July 2009 Environmental Impact Statement and is studying potential water reuse sites including Saltese Flats. **Ben Brattebo** described Phase I which will return Saltese Flats to a more natural wetlands. Laying purple pipe from the SCRWRF to Saltese Flats is estimated to cost \$50 million and other less expensive locations are also being considered if the County is required to stop discharging into the Spokane River.

Supporting documents are available at

The power point presentation http://www.spokaneaquifer.org/wp-content/uploads/2014/02/Spokane-County-Reclaimed-Water-Reuse_Public_Meeting-2008-05-07-IWAC2014.pdf

Spokane County Reclaimed Water Reuse Study June 26, 2009

http://www.spokanecounty.org/data/utilitieswaterreclamation/Spokane%20County%20Reclaimed%20Water%20Use%20Study%20Final%2006-25-09_.pdf

Final Programmatic Environmental Impact Statement –Reclaimed Water Reuse Study

<http://www.spokanecounty.org/data/utilitieswaterreclamation/Spokane%20Co%20%20EIS.pdf>

Hayden Area Regional Sewer Board (HARSB) – Ken Windram presented an overview of the HARSB Water Reuse Program which is implemented seasonally as a requirement of the NPDES permit. The permit requires no Spokane river discharge when river flow is less than 2,000 CFS at Post Falls. The HARSB Reuse Water Farm covers 246 acres in livestock crops and 57 acres in poplar trees. Crops consume an average of 13 inches/acre and poplar trees consume an average of 25 inches/acre. Reuse farm issues include leasing the crop lands to farmers, bugs and no market for harvesting the existing stands of poplar trees. <http://www.spokaneaquifer.org/wp-content/uploads/2014/02/HARSB-REUSE-FARM-Presentation.pdf>

HARSB is part of a pilot project to grow hardwood energy crops. This USDA project is a partnership between Universities in Idaho, Washington, California and Oregon. The description below and much more information about this and other projects can be found at Advanced Hardwood Biofuels Northwest <http://hardwoodbiofuels.org/>.

In spring 2012, a 65-acre plantation was planted near Hayden, ID, in Idaho's panhandle. This site receives 26 inches of precipitation per year, which is not enough for good poplar growth so we are irrigating this demonstration site. In the future, we might be able to irrigate with municipal effluent from the Hayden Sewer District. Growth and survival were very good during the first growing season.

Fall is harvest season and kicks off AHB's first harvest of hybrid poplar for bioenergy. The Jefferson, Oregon and Hayden, Idaho demonstration sites were both harvested at the end of September and early October respectively. The trees grew rapidly at both sites and were ready for the first harvest after only two growing seasons.



2013. Photo by Darrel Kilgore, WSU.

Once planted, the first harvest sets the stage to produce a poplar "coppice" in which multiple shoots will sprout from the cut root stalk in the spring. This technique encourages new growth that will produce more biomass for the subsequent harvests. The trees will be harvested again in two or three years, yielding up to five times more biomass than the initial harvest because of the multiple stems on an established root stalk.

The first harvest of hybrid poplar at the Hayden, ID Demonstration Site in October

City of Post Falls – Mike Neher reported that currently there is no reclaimed water reuse application in the City of Post Falls. Land for possible reuse application was purchased by the Cities of Rathdrum and Post Falls. Reuse could be implemented if the Dissolved Oxygen TMDL phosphorus limits are seasonally unattainable after the new membrane technology tertiary treatment is installed.

Liberty Lake Sewer and Water District – BiJay Adams reported that LLSWD produces about 800,000 gallons per day of "Class A" reclaimed water. Over 4,500 feet of purple pipe have been installed and plans for irrigating with reclaimed water are under development. Seasonal or year-round water reuse application hinges on the Spokane River water quality and flow. One possible option for LLSWD is to send reclaimed water to Saltese Flats.

Discussion Included:

- Could Water Reclamation Facilities receive a water right?
- Waste Water Utilities have the sole right to use the reclaimed water as long as it does not go out of their control. This does not resolve what would happen if withdrawing water from the river resulted in impairment to the river.
- What is the timeline for Spokane County to make reclaimed water available to interested projects?
- Spokane County does not see themselves as a purveyor on a retail level. Wholesale or big users may be considered in the future.
- In Idaho, reclaimed water application sites are monitored to ensure that the water does not travel below the root uptake zone.
- How could increasing water conservation support continued growth?
- Conservation may not allow for a greater number of connections due to load, not volume.

February 11 – Agenda

Spokane River Flow & Avista Hydro Operations: Speed Fitzhugh, Spokane River License Manager and Patrick Maher, Sr. Hydro Operating Engineer for Avista Corporation; and Guy Gregory, Hydrogeologist for WA Dept. of Ecology's Water Resource Program in Spokane.

March 11, 2014 –Agenda

Combined meeting of SVRP CAMP (Comprehensive Aquifer Management Planning) and IWAC discussion will include a Bi-State Water Demand Forecast Model. Mike Hermanson, Spokane County Water Resources, will present the County's Water Demand Forecast Model.

Updates Around the Table

Handouts: December 10, 2013 Meeting Minutes, Treasurer's Report, Logo Contest Flyer,

The meeting adjourned at 3:30 p.m.