



SPOKANE AQUIFER JOINT BOARD MEETING MINUTES

April 24, 2014

Officers: President Ty Wick, VP Bob Ashcraft, Secretary Todd Henry, Treasurer Neal Skaufel

1) CALL TO ORDER

The Board of Directors of the Spokane Aquifer Joint Board (SAJB) met in Regular Session at Spokane County Water District No. 3, 1225 N. Yardley Street, Spokane, Washington 99212. President Ty Wick was in attendance. A total of 18 attended the meeting; including 12 SAJB voting representatives, 1 non-voting member, Program Manager Hanson and 6 guests. The sign-in sheet of SAJB members and guests is available upon request.

Consideration of Regular Meeting Minutes

President Wick called for any additions, corrections or deletions to the Minutes of March 27, 2014. Hearing none the Minutes for March were approved as submitted.

2) FINANCE COMMITTEE REPORT

President Ty Wick reported for the Treasurer.

SAJB Administration Funds

The SAJB checking balance for April 2014 is \$2,796.46

SAJB Wellhead Implementation Plan (WIP) Funds

The WIP checking balance is \$26,441.09 Spokane County Investment Pool (Implementation) balance is \$57,941.73.

Administration and WIP Bill Summary for April

President Wick presented the Bill Payment Summary for the month of April 2014.

The April Bill Payment Summary totaled \$20,359.58. The April summary detailed SAJB Administration bills of \$0.00 and Wellhead Implementation Bills of \$18,365.00. The Program Manager Consulting Services including mileage and reimbursements for the month of April amounted to \$1,994.58.

Those present reviewed the summary. Terry Squibb moved to approve the Bill Payment Summary as presented. Bob Ashcraft seconded the motion. President Wick called for the vote, the motion carried unanimously.

3) OLD BUSINESS

Wellhead Regulatory Process and Wellhead Protection – Lloyd Brewer reported that the recommendations document will be ready for distribution by April 26, 2014. The next and possibly final WPPCC meeting will be April 28, 2014 at Centerplace Conference Center. Additional discussions regarding stormwater disposal have occurred. Draft recommendations will go to the City of Spokane for approval first. Once approved by the City of Spokane the wellhead protection recommendations will be reviewed by the other jurisdictions. Purveyor support is requested with each of their respective jurisdictions. An Implementation committee will be formed following final approval of the recommendations.

Idaho Washington Aquifer Collaborative (IWAC) – IWAC met on April 8, 2014. Melanie Thornton, WSU Graduate student working on the WISDM (Watershed Integrated Systems Dynamic Model) project presented the Oasis Graphical User Interface (GUI) replacing the Systems Dynamics model presented at the September 10, 2013 meeting. Rob Lindsay invited Melanie to present the model again on May 1st at the American Water Resources Association. The AWRA meeting was held at the Spokane County Water Resources Center.

The IWAC logo contest entries were reviewed and three finalists were selected. The final selection will be made at the May 13, 2014 meeting. Next steps for a regional water demand forecast and IWAC goals will be further discussed in May.

2015 Aquifer Atlas Update – Jeremy Jenkins reported that a planning meeting was held on April 17, 2014 at Liberty Lake Sewer & Water District. The draft pages are being reviewed internally before moving review to a larger audience. The current timeline to complete all draft pages is June 19th and a final draft is to be completed by August 21, 2014.

SAJB Award - AWWA Exemplary Source Water Protection Award will be presented at the AWWA Annual Conference and Exhibition on June 9, 2014, in Boston, MA. The Inland Empire Sub-Section of AWWA voted to provide \$500.00 for President Wick's travel expenses to receive the award on behalf of SAJB. President Wick purchased the airplane ticket at a cost of approximately \$600.00. Terry Squibb made a motion for SAJB to provide an additional \$500.00 to assist with the travel, lodging and food. Jim Lahde seconded the motion. President Wick called for the vote and the motion passed unanimously.

GSI Water Solutions, Groundwater Modeling - John Porcello, LHG -GSI Water Solutions presented a "**Screening-Level Analysis: Influence on Spokane River Flows of Hypothetical Pumping Relocation Scenarios Using the City/SAJB Groundwater Flow Model.**" The full presentation is available at <http://www.spokaneaquifer.org/wp-content/uploads/2014/05/SAJB-GSI-Presentation-04-24-2014-1-slide-per-page.pdf>

Study Objectives addressed the following questions:

1. How much does groundwater pumping by SAJB members currently affect flows in the Spokane River?
 - Individually and collectively
 - Focus on peak-season (June through August)
2. How much benefit to river flows could arise if summer pumping is shifted to wells farther from the river?
 - Magnitude and timing
 - Move pumping – not wells
3. How do the changes arising from relocation compare with the proposed in-stream flow standards?

Study Approach

1. Establish baseline
 - Present-day effects on river from all SAJB members
 - The portion of summer pumping rates (June-August) that are in excess of the year-round average rate
 - Examine effect of pumping at higher than year-round average
2. Identify members with relocation ideas
 - CID, Irvin, MEWCO, PPID17, Vera, SCWD3
3. Define pumping volumes to move
 - Percentages for those not sure how much
4. Many model runs! Lots of spreadsheets!
 - Test aquifer parameters that control timing

John Porcello provided 68 pages of detailed graphs and information on how the modelled changes to pumping varied across the purveyor wells identified for this study.

Overarching conclusions that seem to apply to pumping and river flow are summarized below:

- **Moving Pumping Away from Wells Adjacent to Gaining Reach = Notable Benefit to River**
- **Near a Losing Reach + Moving Pumping a Small Distance = Minimal Benefit to River**
- **Temporary increases in pumping near river offset benefits of relocation at other times.**
- **Relocating farther from river but closer to gaining reach can reduce benefits of relocation.**
- **Values are heavily dependent on:**
 - a) **Amount of pumping being moved**
 - b) **The distance that pumping is being moved away from gaining reaches**

Dr. Dale Ralston – Retired University of Idaho professor and Hydrogeologist – Dale briefly described a similar study funded by the Idaho Water Resources Board. Dale and Gary Johnson are using the Bi-state model to consider what role controlling the location or

amount of pumping might have on river flow. Dale also described two other options for enhancing river flow including artificial recharge from surface water and flow of river manipulation at the Post Falls Dam. Dr. Ralston and John Porcello are sharing and discussing data from the two studies.

4) NEW BUSINESS

Discussion of advertising in the Journal of Business "Green Issue" was tabled.

5) WELLHEAD PROGRAM IMPLEMENTATION PLAN – Program Manager Tonilee Hanson provided the first Quarter Report detailing the activities and expenditures to date. The report was e-mailed to all members and can also be found at http://www.spokaneaquifer.org/wp-content/uploads/2014/05/2014_WIP-Budget-1st-Quarter-Report.pdf

WIP Assessment information using the revised connection numbers has been received and the new formula will reduce 2014 WIP revenues by about \$3,000.

2014 Education and Awareness Events

- 4/11/14 Gonzaga Environmental Education Program YWCA Event
- 4/24/14 Gonzaga Environmental Education Program Student Event
- 4/26/14 Earth Day in River Front Park
- 4/26/14 Arbor Day at Finch Arboretum
- 4/26-27/14 St. Aloysius Parish Caring for Creation
- 6/2-11/14 Mead School District 5th Grade Environmental Camp

Conservation

KPSP Aquifer in a Cup teacher, Kristen Zimmer has been hired by the City of Spokane in a part-time position working on water stewardship education. Kristen will continue to teach the Aquifer protection workshops for SAJB. Kristen and Tonilee plan to collaborate and develop a conservation workshop that will eventually become a new "Virtual Field Trip on the SAJB website.

Proactive Business Assistance – The Aqua Duck EnviroStars Billboard is located at Trent and Freya and has been receiving positive feedback from local businesses. PM Hanson will work with Emerald Outdoor to develop a rotation schedule that places the signs near events such as Millwood Daze, The Interstate Fair and Valleyfest.

EnviroStars Waste Directory website will be ready by May for a demonstration to the SAJB members and is scheduled to launch by the fall. The Potential Contaminant Source Inventory letter will need to be mailed in June but it was suggested that a "Coming Soon" announcement could be added to the Business resources insert.

Household Hazardous Waste Disposal

- National Drug Take Back 4/26/14 - KSPS PSA

- The EnviroStars Waste Directory Website includes disposal and alternative product information for residents.
- Mead School District 5th grade Environmental Camp focus for the students will be on what they and their families can do at home to reduce hazardous chemicals in the home.

Website Statistics

Dates	Dec 30, 2010	Jan 30, 2011	11/14/13 12/15/13	12/15/13 1/14/14	1/15/14 /14/14	2/15/14 3/14/14	3/15/14 4/14/14
Total visits	1512	1825	1,819	1,318	2,110	1,622	2,181
Unique Visits	982	1275	1,515	1,051	1,818	1,381	3,304
Page Views			7,860	5,847	6,996	5,835	7,871
Ave. Visit			3:07 min	2:20 min	3:32 min	1:45 min	1:17min
New visitors			79.93%	74.28%	83.3%	81.3%	79.4%
Returning Visitors			19.07%	25.72%	16.7%	18.7%	20.6%
Page Visits	1.43	1.43	4.32	4.44	3.32	3.60	3.61
Bounce Rate			26.88%	23.29%	42.09%	44.47%	27.62
Peak Dates			11/18,11/25 12/2, 12/11	12/15/13 1/6/14 1/13/14	1/28, 2/5, 2/10	2/27	3/18, 3/22, 3/24, 4/2, 4/8

The Water Purveyor Map continues to receive the most visits.

6) OPEN FORUM

7) ADJOURN

There being no further business this 24th day of April, 2014, President Wick adjourned the meeting at 3:40 PM.

President Ty Wick

Secretary Todd Henry