

**BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE STATE OF IDAHO**

IN THE MATTER OF BIG WOOD RIVER
GROUND WATER MANAGEMENT AREA

IN THE MATTER OF APPLICATIONS
FOR PERMIT FOR THE DIVERSION AND
USE OF SURFACE AND GROUND
WATER WITHIN THE SNAKE RIVER
BASIN

**NOTICE OF DEPARTMENT
WITNESSES FOR HEARING**

On March 31, 2023, the Director of the Idaho Department of Water Resources (“Department”) issued the *Order Consolidating Proceedings for Hearing, Authorizing Discovery, and Scheduling; Notice of Hearing* (“Consolidation Order”) in the above-captioned, consolidated matter. The first proceeding pertains to the May 17, 2022 *Order Establishing Moratorium for the Big Wood River Ground Water Management Area* and the second proceeding pertains to the October 21, 2022 Amended Snake River Basin Moratorium Order (collectively, “Orders”).

The Director ordered an April 7, 2023 deadline for the Department to “identify the Department employees that will testify at hearing and documents that may be relied upon at the hearing.” *Consolidation Order* at 2. The Director further ordered that “[a] general summary of testimony shall be provided for each employee identified.” *Id.* The Department submits the following in compliance with the Consolidation Order.

NOTICE

NOTICE IS HEREBY GIVEN that the Department has identified the following Department employees that will testify at hearing and to which issue each will testify:

1. James Cefalo, IDWR Eastern Regional Manager

Mr. Cefalo will testify as to the Director’s conclusion that applications for municipal water use and for domestic use from community water systems shall be considered fully consumptive.

In addition to the Orders, Mr. Cefalo will rely on ET Idaho, found at <http://www.kimberly.uidaho.edu/ETIdaho/>.

2. Sean Vincent, Hydrology Section Manager

Mr. Vincent will testify to the Director’s issuance of a moratorium on pending applications from mainstem Snake River between King Hill and Swan Falls.

In addition to the Orders, Mr. Vincent will rely on the following documents:

- Geisler, E. (2022). *Swan Falls AADF update* [presentation to Swan Falls Technical Working Group]. Idaho Department of Water Resources. <https://idwr.idaho.gov/wp-content/uploads/sites/2/legal/swan-falls-settlement/20220810-Swan-Falls-TWG-Presentation-AADFUpdate.pdf>
- Sukow, J. (2021). *Model calibration report: Eastern Snake Plain Aquifer model version 2.2*. Idaho Department of Water Resources. https://research.idwr.idaho.gov/files/projects/espam/browse/ESPAM22_Reports/ModelCalibrationRpt/ModelCalibration22_Final.pdf
- Sukow, J. (2022). *Preliminary evaluation of trust water use impact on Snake River below Milner Dam* [presentation to Swan Falls Technical Working Group]. Idaho Department of Water Resources. <https://idwr.idaho.gov/wp-content/uploads/sites/2/legal/swan-falls-settlement/20220607-Swan-Falls-TWG-Presentation-Trust-Water-impact.pdf>
- Idaho Water Res. Bd., (1976). *The State Water Plan - Part Two*. <https://idwr.idaho.gov/wpcontent/uploads/sites/2/iwrb/1976/1976-State-Water-Plan-Part-2.pdf>
- Idaho Water Res. Bd., (1986). *Idaho State Water Plan*. <https://idwr.idaho.gov/wpcontent/uploads/sites/2/iwrb/1986/1986-State-Water-Plan.pdf>
- Idaho Water Res. Bd., (2012). *Idaho State Water Plan*. <https://idwr.idaho.gov/wpcontent/uploads/sites/2/iwrb/2012/2012-State-Water-Plan.pdf>
- McVay, M. (2022). *ESPA storage changes* [presentation to the Idaho Water Resources Board], Idaho Water Resource Board. <https://idwr.idaho.gov/wp-content/uploads/sites/2/iwrb/1-Meetings2022/AquiferStabilizationCommittee-Meeting-2-22-Materials.pdf>
- Barlow, P.M., & Leake, S.A. (2012). *Streamflow depletion by wells-Understanding and managing the effects of groundwater pumping on streamflow* (Circular 1376), U.S. Department of the Interior & U.S. Geological Survey. https://pubs.usgs.gov/circ/1376/pdf/circ1376_barlow_report_508.pdf
- Sukow, J. (2021). *Model calibration report: Eastern Snake Plain Aquifer model version 2.2*. Idaho Department of Water Resources. https://research.idwr.idaho.gov/files/projects/espam/browse/ESPAM22_Reports/ModelCalibrationRpt/ModelCalibration22_Final.pdf
- Crosthwaite, E.G., & Scott, R.C. (1956). *Ground water in the North Side Pumping Division, Minidoka project, Minidoka County, Idaho* (Circular 371), U.S. Department of the Interior & U.S. Geological Survey. <https://pubs.usgs.gov/circ/0371/report.pdf>

- Plummer, L.N., Rupert, M.G., Busenburg, E., & Schlosser, C.P. (2000). Age of irrigation water in ground water from the Eastern Snake Plain Aquifer, South-Central Idaho. *Groundwater*, Vol 38, No. 2, p. 272. <https://doi.org/10.1111/j.1745-6584.2000.tb00338.x>
- Crosthwaite, E.G. (1957). *Ground-water possibilities south of the Snake River between Twin Falls and Pocatello, Idaho* (Water-Supply Paper 1460-C), U.S. Department of the Interior & U.S. Geological Survey. <https://pubs.usgs.gov/wsp/1460c/report.pdf>
- Contor, B.A., Taylor, S.L., & Quinn, G.W. (2009). *Monitoring of Egin, Idaho recharge experiment, fall 2008* (IWRRI Technical Completion Report 2009-01), Idaho Water Resources Research Institute & Idaho Department of Water Resources. <https://idwr.idaho.gov/wp-content/uploads/sites/2/publications/200906-OFR-EginMonitoring-Rpt-2008.pdf>
- Cosgrove, D.M., Johnson, G.S., Brockway, C.E., & Robison, C.W. (1997). *Geohydrology and development of a steady state ground-water model for the Twin Falls, Idaho area*. University of Idaho & Idaho Water Resources Research Institute. https://cdm17254.contentdm.oclc.org/utills/getfile/collection/idahowater/id/689/file_name/iwdl-199703.pdf
- Kjelstrom, L.C. (1995). *Streamflow gains and losses in the Snake River and ground-water budgets for the Snake River Plain, Idaho and Eastern Oregon* (Professional Paper 1408-C), U.S. Department of the Interior & U.S. Geological Survey. <https://pubs.usgs.gov/pp/1408c/repott.pdf>
- Sukow, J.(2011). *Estimation of ground water contribution from the south side of the Snake River, Milner to King Hill: Eastern Snake Plain Aquifer model version 2*. Idaho Department of Water Resources. https://research.idwr.idaho.gov/files/projects/espam/browse/ESPAM_2_Design_Docs/SouthSideContribution/ESPAM2_South_GW_Contribution_Design_Doc_12282011_renum.pdf
- Ralston, D.R., & Chapman, S.L. (1968). *Ground-water resource of the Mountain Home Area, Elmore County, Idaho* (Water Information Bulletin No. 4), Idaho Department of Reclamation. <https://idwr.idaho.gov/wpcontent/uploads/sites/2/publications/wib04-gw-res-mthome-id.pdf>
- Newton, G.D. (1991). *Geohydrology of the regional aquifer system, Western Snake River Plain, Southwestern Idaho* (Professional Paper 1408-G), U.S. Department of the Interior & U.S. Geological Survey (figs. 3, 21). <https://pubs.usgs.gov/pp/1408g/report.pdf>
- Welhan, J.A. (2012). *Preliminary hydrogeologic analysis of the Mayfield Area, Ada and Elmore Counties, Idaho* (Staff Report S-12-2), Idaho Geological Survey & University of Idaho. https://www.idahogeology.org/pub/Staff_Reports/2012/StaffReport_S-12-2.pdf

- Tesch, C. (2012). *Sufficiency of water supply for water right application and transfers along the I-84 Corridor* [Memorandum], Idaho Department of Water Resources. <https://idwr.idaho.gov/wpcontent/uploads/sites/2/legal/east-ada-contested-case/EADA-20120531-Consolidated-hearing-staff-memo.pdf>
- Berenbrock, C. (1993). *Effects of well discharges on hydraulic heads in and spring discharges from the geothermal aquifer system in the Bruneau Area, Owyhee County, Idaho* (Water-Resources Investigations Report 93-4001), U.S. Department of the Interior & U.S. Geological Survey. <https://pubs.usgs.gov/wri/1993/4001/report.pdf>
- Ralston, D.R., & Chapman, S.L. (1969). *Ground-water resource of Northern Owyhee County, Idaho* (Water Information Bulletin No. 14), Idaho Department of Reclamation. <https://idwr.idaho.gov/wpcontent/uploads/sites/2/publications/wib14-gw-res-owyhee-id.pdf>

3. Jennifer Sukow, Engineer, Technical 2

Ms. Sukow will testify as to the Director's conclusion regarding the impact of pumping on surface water sources upstream from Magic Reservoir, including Silver Creek.

In addition to the Orders, Ms. Sukow will rely on the following documents:

- Sukow, J., 2021, *Predicted hydrologic response in Silver Creek and the Little Wood River to curtailment of groundwater use in 2021, Basin 37 Administrative Proceeding, AA-WRA-2021-001*. Response to request for staff memorandum, Idaho Department of Water Resources, May 17, 2021, correct June 8, 2021, 87p., <https://idwr.idaho.gov/wp-content/uploads/sites/2/legal/AA-WRA-2021-001/AA-WRA-2021-001-20210608-Jennifer-Sukow-Response-to-Request-for-Staff-Memo-Corrected.pdf>.
- Sukow, J., 2015, *Hydrology, hydrogeology, and hydrologic data, Big Wood & Little Wood Water Users Association delivery calls, CM-DC-2015-001 and CM-DC-2015-002*. Idaho Department of Water Resources, August 28, 2015, 25 p., <https://idwr.idaho.gov/files/legal/CM-DC-2015-001/CM-DC-2015-001-20150828-WRCall-Hydro-Memo-w-Attach.pdf>.
- Fisher, J.C., J.R. Bartolino, A.H. Wylie, J. Sukow, M. McVay, 2016, *Groundwater flow model for the Wood River Valley aquifer system, south-central Idaho*. U.S. Geological Survey Scientific Investigations Report 2016-5080, 84 p., <https://pubs.er.usgs.gov/publication/sir20165080>.
- Fisher, J.C., J.R. Bartolino, A.H. Wylie, J. Sukow, M. McVay, 2016, *Appendix G. Incidental Groundwater Recharge and Pumping Demand in the Wood River Valley Aquifer System, South-Central Idaho in Groundwater flow model for the Wood River Valley aquifer system, south-central Idaho*. U.S. Geological Survey Scientific Investigations Report 2016-5080, 36 p., <https://pubs.er.usgs.gov/publication/sir20165080>.

- Wylie, A., J. Sukow, M. McVay, J. Bartolino, 2019, *Groundwater flow model for the Wood River Valley aquifer system, Version 1.1*. Idaho Department of Water Resources, 39 p., <https://idwr.idaho.gov/wp-content/uploads/sites/2/projects/wood-river-valley/20190627-Groundwater-Flow-Model-forthe-Wood-River-Valley-Aquifer-System.pdf>
- The following two model recharge input files, available online in “WRV Data 1995-2014” at <https://idwr.idaho.gov/water-data/projects/wood-river-valley/model/>
 - Surface water irrigation rights and groundwater irrigation rights with combined limits: comb.sw.irr.csv
 - Surface water priority cuts for model calibration period: PriorityCuts.csv

DATED this 7th day of April 2023.



Gary Spackman
Director

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 7th day of April 2023, the above and foregoing was served by the method indicated below, and addressed to the following:

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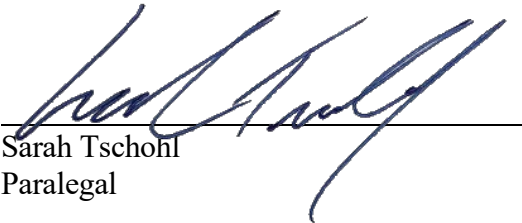
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