

Andrew L. Bobst
Peer-Reviewed Publications and Presentations

- Bobst, A.L., Hanson, A.E.H., and Abdo, G., 2026, Evaluating the hydrogeologic potential for aquifer storage and recovery (ASR) in the deep aquifer of the Flathead Valley, northwest Montana, USA; Montana Bureau of Mines and Geology, Report of Investigation 39. <https://doi.org/10.59691/YJBP7613>
- Bobst, A., Berglund J., Smith, L., and Gebril, A., 2025, Hydrogeologic investigation of the East Flathead Valley – Interpretive Report; Montana Bureau of Mines and Geology, Report of Investigation 38. <https://doi.org/10.59691/UFCN1290>
- Denver, C., Hanson, A.E.H., and Bobst, A., 2025, Watered with Wisdom: managed aquifer recharge in Montana; American Water Resources Association (Montana Section) – Great Falls, MT, Abstract with Program.
- Abdo, G., Bobst, A., Hanson, A., Sutherland, M., Denver, C., and LaFave, J., 2025, Evaluating managed aquifer recharge (MAR) in Montana; American Water Resources Association (Montana Section) – Great Falls, MT, Abstract with Program.
- Storey, T., Bobst, A., and Gebril, A., 2025, Seasonal groundwater-elevation variations and potentiometric surfaces in the Tobacco Valley, near Eureka, Montana; American Water Resources Association (Montana Section) – Great Falls, MT, Abstract with Program.
- Hanson, A., Bobst, A., Abdo, G., LaFave, J., and Sutherland, M., 2025, Starting the conversation: Montana’s first statewide suitability analysis for MAR surface infiltration; National Groundwater Association MAR Conference – Denver, CO. <https://ngwa.confex.com/ngwa/mar25/meetingapp.cgi/Paper/14523>
- Willingham, A., Bobst, A., and Gavillot, Y., 2025, Geohazards and Groundwater in Virginia City, Montana; Northwest Geology, v. 53.
- Smith, L.N., and Bobst, A.L., 2025, Evaluation of roto-sonic cores and a lithologic cross section in the east Flathead Valley: Montana Bureau of Mines and Geology Open-File Report 770, 87 p.; <https://doi.org/10.59691/HSGA4179>
- Bobst, A., and Burglund, J., 2024, Developing a numerical groundwater flow model for the East Flathead valley: American Water Resources Association (Montana Section) – Whitefish, MT, Abstract with Program.
- Hanson, A.E.H., Bobst, A.L., Abdo, G., LaFave, J.I., and Sutherland, M., 2024, Managed Aquifer Recharge (MAR): An initial hydrogeologic screening for surface infiltration suitability in Montana: Montana Bureau of Mines and Geology Report of Investigation 37, 26 p., 1 sheet. <https://doi.org/10.59691/SXSP1714>

- Berglund, J., Bobst, A., and Gebril, A., 2024, A groundwater flow model for the East Flathead Valley, Flathead County, Montana: Montana Bureau of Mines and Geology Report of Investigation 36, 110 p. <https://doi.org/10.59691/CMXE7182>
- Bobst, Andrew, 2024, Three aquifer tests in the Tobacco Valley, near Eureka, Montana: Montana Bureau of Mines and Geology Open-File Report 764, 16 p. <https://doi.org/10.59691/VPOB3854>
- Smith, L., Montejo, C., and Bobst, A., 2024, Flathead Lobe recession in the Flathead Valley: Implications for ice-marginal lake draining; Geological Society of America Joint Cordilleran and Rocky Mountain Section Meeting – Spokane, WA, Abstract with Program.
- Bobst, A., Berglund, J., and Smith, L., 2023, Investigating Hydraulic Connections between Aquifers and Surface Waters in the East Flathead Valley: American Water Resources Association (Montana Section) – Missoula, MT, Abstract with Program.
- Myse, T., Bobst, A., and Rose, J., 2023, Analyses of three constant-rate aquifer tests, East Flathead Valley, northwest Montana: Montana Bureau of Mines and Geology Open-File Report 757, 44 p. <https://doi.org/10.59691/KIHY3274>
- Bobst, A., Gebril, A., and Dohman, J., 2023, Groundwater/surface-water study in the Upper Jefferson Valley, Montana: Modeling the effects of changing irrigation practices and increased residential development on low streamflows: Montana Bureau of Mines and Geology Information Pamphlet 14, 4 p. <https://doi.org/10.59691/CSLP2725>
- Askam, E., Nagisetty, R.M., Crowely, J., Bobst, A.L., Shaw, G., and Fortune, J., 2022, Satellite and sUAS multispectral remote sensing analysis of vegetation response to beaver mimicry restoration on Blacktail Creek, Southwest Montana: Remote Sensing, v. 14, n. 24, 6199. <https://doi.org/10.3390/rs14246199>
- Bobst, A., and Rose, J., and Berglund, J., 2022, An Evaluation of the unconsolidated hydrogeologic units in the south-central Flathead Valley, Montana; Montana Bureau of Mines and Geology, Open-File Report 752, 16 p. <https://doi.org/10.59691/SRLK8303>
- Bobst, A., and Rose, J., 2022, Thickness of the Deep Aquifer and Character of the Underlying Sediments in the Flathead Valley: American Water Resources Association (Montana Section) – Butte, MT, Abstract with Program.
- Burglund, J., and Bobst, A., 2022, Improving a hydrogeologically complex aquifer model using transient groundwater levels, East Flathead Valley, Montana: Geological Society of America Abstracts with Programs, v. 54, no. 5, <https://doi.org/10.1130/abs/2022AM-382451>.

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- Bobst, A., Payn, R., and Shaw, G., 2018, Using groundwater models to explore how beaver-mimicry stream restoration affects dynamic seasonal water storage: American Water Resources Association (Montana Section) – West Yellowstone, MT, Abstract with Program.
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