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Attorneys for Lava Ranch Property Owners Assn.

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

IN THE MATTER OF THE WATER
RIGHTS OF: MICHAEL BEER AND
LORI BEER AND WATER RIGHT
NO. 29-13740

Docket No. CM-DC-2021-001

LRPOA'S EXPERT WITNESS LIST

COMES NOW, Respondent LAVA RANCH PROPERTY OWNERS ASSOCIATION, INC. ("LRPOA" or "Association"), by and through its counsel of record, BARKER ROSHOLT & SIMPSON LLP, and hereby lists the following expert witness who may provide opinions at the hearing in this matter:

Erick Powell, Ph.d., P.E.
Brockway Engineering PLLC
2016 Washington St. N., Ste 4
Twin Falls, Idaho 83301
(208) 736-8543

A copy of Dr. Powell's curriculum vitae is attached hereto as Exhibit A.

Dated this 29th day of July, 2022.

BARKER ROSHOLT & SIMPSON LLP



Travis L. Thompson

Attorneys for Lava Ranch Property Owners Assn.

CERTIFICATE OF SERVICE

I hereby certify that on this 29th day of July, 2022, I served a true and correct copy of the foregoing LRPOA'S EXPERT WITNESS LIST:

By U.S. Mail and Email to the following:

Mat Weaver, Hearing Officer
Idaho Department of Water Resources
State Office
322 E. Front St.
Boise, Idaho 83702-0098
mathew.weaver@idwr.idaho.gov
sarah.tschohl@idwr.idaho.gov
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Beard St. Clair Gaffney PA
955 Pier View Dr.
Idaho Falls, Idaho 83402
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Attorneys for Petitioners Mike & Lori Beer



Travis L. Thompson

Exhibit

A

G. Erick Powell, Ph.D., P.E.

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Twin Falls, Idaho 83301
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erick.powell@brockwayeng.com

Education

<u>Degree</u>	<u>University</u>	<u>Field</u>	<u>Year</u>
Ph.D.	The Ohio State University Advisor: Dr. Andrew D. Ward Title: <i>Evaluating geomorphology and water quality of channel-forming discharges in Ohio headwater streams</i>	Agricultural Engineering	2006
MS	Brigham Young University Advisor: Dr. E. James Nelson Title: <i>Bathymetry delineation and data collection preparing a CE-QUAL-W2 model on Scofield Reservoir, Utah</i>	Civil and Environmental Engineering	2002
BS	Brigham Young University	Major: Civil and Environmental Engineering Minor: Agronomy	2001

Professional Experience

Senior Engineer 2006 – Present
Brockway Engineering, PLLC
Twin Falls, Idaho

Senior engineer specializing in hydrologic and hydraulic engineering design tasks, including: groundwater modeling, well design, well construction, well testing, water rights, water right transfers, pipeline design, water distribution systems, stream channel evaluation, floodplain modeling and assessment, irrigation water demand, and potable water demand.

Graduate Research Assistant 2002 – 2006
Department of Food, Agricultural, and Biological Engineering
The Ohio State University, Columbus, Ohio

Research consisting of: 1) evaluation of channel forming discharges, 2) two-stage channel design procedures, 3) nutrient performance within two-stage agricultural channels, and 4) theoretical nutrient spiraling under restored riparian projects.

Civilian Contractor 2001
Coastal and Hydraulics Laboratory
Waterways Experiment Station
United States Army Corps of Engineers, Vicksburg, Mississippi
Developed numerical groundwater flow simulations using FEMWATER and Groundwater Modeling System (GMS).

Surveyor and Draftsman 1998 – 1999
Western Land Surveying, Provo, UT
Chief draftsman and assistant surveyor for Western Land Surveying.

Laboratory Research Assistant 1993 – 1995
KSU Soil Testing Laboratory
Kansas State University, Manhattan, KS
Soil laboratory and research assistant.

Teaching Experience

Adjunct Professor 2008 – Present
Department of Physical Science
College of Southern Idaho

<u>Course</u>	<u>Title</u>
GEOG 100	Physical Geography
ENGI 120	Introduction to Engineering

Adjunct professor for the College of Southern Idaho for the Engineering, Physical and Computer Science Department. Class load has included introduction to engineering and physical geography.

Graduate Teaching Associate 2002 – 2006
Department of Food, Agricultural, and Biological Engineering
The Ohio State University, Columbus, Ohio

<u>Course</u>	<u>Title</u>
ACSM 370	Principles of Hydrology
FABE 373	Principles of Soil and Water Engineering
FABE 673	Design of Agricultural Water Management Systems
FABE 773	Engineering Soil-Water Management
FABE 850	Departmental/Graduate Seminar

Departmental teaching appointment. Recipient of the Stanely W. Joehlin graduate teaching award 2002-2005. Provided instruction for multiple University sponsored workshops.

Instructor 1999 – 2002
Civil and Environmental Engineering Department
Brigham Young University, Provo, Utah

<u>Course</u>	<u>Title</u>
CE En 113	Engineering Measurements

Responsible for course instruction, material evaluations, laboratory curriculum development and laboratory instruction.

Professional Licenses

State of Idaho, Professional Engineer No. P-13592, December 2008
State of Idaho Certified Water Rights Examiner
State of Utah, Professional Engineer No. 4859937-2202, July 2011
State of Oregon, Professional Engineer No. 91026, March 2016
State of Nevada, Professional Engineer No. 028772, March 2021
State of Nevada Water Right Surveyor

Professional Associations

American Society of Civil Engineers (ASCE)
American Ecological Engineering Society (AEES)
American Society of Agricultural and Biological Engineers (ASABE)
American Society for Engineering Education (ASEE)
Alpha Epsilon (ASABE Honor Society)

Professional Service

ASABE reviewer for soil and water publications
NRI grant reviewer
Assisted associate ASABE editor on peer-reviewed publications
ASABE Soil and Water Committee member
Ohio Agricultural Research Development Center (OARDC) grant reviewer
Reviewed Environmental Hydrology Textbook

Relevant Leadership Experience

The Ohio State University's College of Engineering Academic Affairs Committee member
representing graduate students
Department of Food, Agricultural, and Biological Engineering Graduate Student President.
Department of Food, Agricultural, and Biological Engineering Graduate Student Treasurer.

Publications

Powell, G.E., A.D. Ward, D.E. Mecklenburg, and A.D. Jayakaran. 2007. Two-stage channel systems: Part 1, a practical approach for sizing agricultural ditches. *J. of Soil and Water Conservation*. 62(4):pp.

Powell, G.E., A.D. Ward, D.E. Micklengburg, J. Draper, and W. Word. 2007. Two-stage channel systems: Part 2, case studies. *J. of Soil and Water Conservation*. 62(4):pp.

Powell, G.E. 2006. Examination, application, and evaluation of geomorphic principles and resulting water quality in Midwest agricultural streams and rivers. The Ohio State University. Doctoral dissertation.

Powell, G.E., D. Mecklenburg, and A.D. Ward. 2006. Evaluation of Channel-Forming Discharges: A Study of Large Rivers in Ohio. *Trans. of ASABE*. 49(1):35-46.

Martin, J.F., S.A. Diemont, G.E. Powell, M. Stanton, and S. Levy-Tacher. 2006. Emergy evaluation of the performance and sustainability of three agricultural systems with different scales and management. *Agriculture, Ecosystems, and Environment*. 115(2006):128-140.

Books and Book Chapters

Powell, G.E. 2004. *Solutions Manual for Environmental Hydrology: Second Edition*. CRC Press. Boca Raton, Florida.

Jayakaran, A., A. Ward, D. Mecklenburg, G.E. Powell, and J. Witter. 2009. Chapter: The Fluvial Functioning of Agricultural Ditches and the Implication for their Management. *Agricultural Drainage Ditches: Mitigation Wetlands of the 21st Century*.

Jayakaran, A.D., D.E. Mecklenburg, J.D. Witter, G.E. Powell, 2022. Chapter: Active Floodplain Requirements for Sustaining Two-Stage Channel Geometry. *Watershed Management*. John Lyon, ed. CRC Press. Publication Pending.

Presentations, Papers and Posters

Powell, G.E., C.E. Brockway, C.G. Brockway, and Z. Latham. 2009. Spring Source Streams in Idaho. *ASABE Annual International Meeting*. Reno, Nevada.

Powell, G.E., J. Draper, and A. Ward. 2006. Crommer Ditch: A Collaborative Evaluation of an Alternative Drainage Channel Design in the Midwest. 2006 Soil and Water Conservation Society international conference. Keystone, Colorado.

Powell, G.E., D. Mecklenburg, and A. Ward. 2006. Spreadsheet Tools for River Evaluation, Assessment, and Monitoring: The STREAM Diagnostic Modules. 2006 EWRI Congress. ASCE Specialty Conference. Omaha, Nebraska.

Powell, G.E., A. Ward, and A. Jayakaran. 2006. Nutrient loads in Ohio Headwater Streams. 2006 National Water Quality Conference. USDA-CSREES. San Antonio, Texas.

Powell, G.E., J.R. Christensen, and W.J. Mitsch. 2005. Riparian Forest Soil Examination for Hydric Soil Conditions following partial dike removal. In: Mitsch, W.J., (Ed.), *ORW at OSU, Annual Report 2004*.

Powell, G.E., J.F. Martin, and G.M. Powell. 2004. Comparing the Sustainability of Corn Production by Furrow and Center Pivot Irrigation. 2004 ASAE Annual meeting. Paper Number 042282.

- Powell, G.E., and J. Witter. 2003. Hope Clay Mine Reclamation Project Poster. 2003 STREAMS Conference. Columbus, Ohio.
- Ward., A.D, D. Mecklenburg, G.E. Powell, A.D. Jayakaran, and L.C. Brown. 2004. Two-Stage Channel Design Procedures. 2004 ASAE Specialty Conference. STREAMS Conference. St. Paul, MN
- Ward., A.D., J. Witter, and G.E. Powell. 2004. Water Quality Benefits of Grassed Fluvial Features in Drainage Ditches. 2004 ASAE Specialty Conference. STREAMS Conference. St. Paul, MN
- Ward., A.D., V. Bouchard, B. Songen, G.E. Powell, and A.D. Jayakaran. 2004. Two-Stage Ditch Poster. 2004 ASAE Specialty Conference. STREAMS Conference. St. Paul, MN
- Ward, A.D, D. Mecklenburg, G.E. Powell, L.C. Brown, and A.D. Jayakaran. 2003. Designing Two-stage Agricultural Drainage Ditches. 2003 ASAE Annual Meeting. Paper Number 701P0304.