
Alexander M Haluszka

M.Sc., P.Geo.

Professional Hydrogeologist

Experience **Nov. 2024 - Present** **Rounded Geoconsulting Corp.** **Calgary, AB**
President and Principal Hydrogeologist

- Incorporated as an independent consultant to provide strategic advisory services related to groundwater

March 2009 - Present **Matrix Solutions Inc.** **Calgary, AB**

During my tenure at Matrix I have been the senior project manager of over 50 projects with total professional fees in excess \$2 million and filled various technical roles, contributing to the successful execution of over 400 client technical projects. Most recently one of my key roles has been technical director of a large upstream oil and gas contaminated sites portfolio that has evolved from competitive bid stage to a \$10 million dollar project portfolio for Matrix.

Principal Hydrogeologist (2021 - Present)

- Provided technical leadership in hydrogeology to the entire company (approximately 650 employees)
- Acted as a Qualified Person for several lithium brine mineral resource evaluations under the NI 43-101 and JORC frameworks
- Conducted senior technical review of reports to be issued to clients and regulators
- Supported strategic planning for the business including market sector reviews, SWOT analyses, growth plan development and succession planning
- Acted as a professional Responsible Member for corporation to APEGA
- Presented project results on behalf of clients to regulatory agencies (BC Oil and Gas Commission and Alberta Energy Regulator)

Senior Hydrogeologist (2017 - 2021)

- Managed complex technical projects and provided technical leadership to a group of approximately 30 scientists, engineers, and technicians
- Delivered technical talks about project work at major conferences
- Created static geomodels using Leapfrog Works and GOCAD and constructed and calibrated transient groundwater flow models in FEFLOW
- Used data and resulting models to support regulatory applications for clients, design groundwater monitoring networks, plan water supply well drilling/testing, and design and optimize well networks
- Acted as a technical lead for the geologic mapping and geophysics discipline with the geoscience practice area at Matrix

Hydrogeologist (2009 - 2017)

- Completed hydrogeological mapping for various applications including environmental impact assessments, water supply exploration, and contaminated sites investigation using a variety of data including borehole logs, geophysical logs, water levels/pressures and water chemistry data
- Compiled and synthesized data from water chemistry analyses, drill stem tests, pressure transducers, and vibrating wire piezometers
- Conducted pressure transient data analysis including pumping, injection, and drill stem tests using Aqtesolv and other software
- Completed reporting in compliance with environmental regulations, including *Water Act* licence applications and environmental impact assessments
- Completed field work, including groundwater monitoring, water supply well drilling, and pumping tests

Sept. 2006- Aug. 2009 **University of Calgary** **Calgary, AB**
Graduate Student Teaching Assistant

- Organized and instructed labs and field courses for junior and senior undergraduate
-

students

- Received the Jim & Josie Gray Graduate Teaching Award for teaching excellence

Summers 2004-2007 Petroleum Geology Summer Student Calgary, AB

During university, I completed two summer petroleum geology internships for EnCana Corporation and two for Talisman Energy Inc. During these internships I completed the following tasks:

- Created geological cross-sections, structure, isopach, and net pay maps using geophysical well logs for various conventional siliciclastic and carbonate oil and gas plays in the WCSB
- Completed core logging and thin section analysis and tied to petrophysics to aid geological interpretations, determine rock properties, and predict petroleum reservoir properties
- Proposed new drills, as well as recompletions for oil and gas exploration and production

Education	2006-2009	University of Calgary	Calgary, AB
	<ul style="list-style-type: none">▪ Master of Science degree in Geology▪ Investigating sedimentology and diagenesis of Middle Cambrian deep water carbonate deposits in the south-western United States▪ Study involved geological fieldwork, carbonate sedimentology, petrography and geochemistry▪ Completed course work with a 3.90 GPA		
	2002-2006	University of Calgary	Calgary, AB
	<ul style="list-style-type: none">▪ Awarded Bachelor of Science degree with First Class Honours in Geology▪ Completed a bachelor's thesis involving geological fieldwork, carbonate sedimentology, petrography, and geochemistry▪ Achieved first class honours with a degree GPA of 3.70		
	Other Certifications		
	<ul style="list-style-type: none">▪ First Aid and CPR Level C▪ H₂S Alive▪ Registered professional geoscientist in Alberta, Saskatchewan, and Manitoba		

Volunteer Experience	<ul style="list-style-type: none">▪ CEQA (formerly CSPG) hydrogeology technical division co-chair, 2019 until 2023▪ Co-chair and organizer, CSPG Gussow 2022 Conference▪ Vice President and board member, Priori Epée Fencing Club, 2013 - Present▪ President, University of Calgary Fencing Club, 2008-2009▪ Vice President Academic and APEGGA Student Liaison for the Rundle Group of Geology (University of Calgary), 2004-2006
-----------------------------	---

Presentations and Publications	<p>Haluszka A., and D. Abbey. <i>Lithium Resource Estimates for Petro and Geothermal Brine Projects: What Porosity Value to Use?</i> Abstract and Presentation. Geoconvention 2024. Calgary, Alberta. June 17-19. 2024.</p> <p>Hamer, B., and A. Haluszka. <i>High Frequency Groundwater Sampling - Insights Into Detailed Plume Characterization and Risk Management.</i> Abstract and Presentation. Remtech 2020. October 14-15, 2020.</p> <p>Haluszka, A., Morgan, S. and B. Hamer. <i>Quantitative Assessment Methods to Improve Conceptual Site Models at Contaminated Sites.</i> Abstract and Presentation. AGAT tech talks 2020. January 24 and 31, 2020.</p> <p>Claprod M., Haluszka A., Boutin L.C., and W. Wilmot. 2017. <i>Importance of local-scale geological features in regional-scale groundwater modelling.</i> Abstract and Presentation. International Association of Hydrogeologists Regional Groundwater Flow Commission, Calgary Symposium 2017. June 26-28, 2017.</p> <p>Claprod M., Haluszka A., and L.C. Boutin. 2017. <i>Cokriging to improve geomodels and hydrogeological models.</i> . Abstract and Presentation. <i>WaterTech 2017.</i> Banff, Alberta. April 3-5,</p>
---------------------------------------	--

2017.

Johnsen T., Haluszka A., and M. McLean. 2015. "Thermal Effects and Quaternary Hydrogeology: Making Good Decisions in a Complex Geologic Setting. Abstract and presentation." *Geoconvention 2015*. Calgary, Alberta. May 2015.

Haluszka A. and S. Poschmann. 2014. "Deep Groundwater Exploration and Characterization in Alberta, Canada. Abstract and presentation." *National Groundwater Association Conference on Characterization of Deep Groundwater*. Denver, Colorado. May 2014.

Haluszka A., Pooley C., and G. Macmillan. 2014. "Water supply issues in unconfined aquifers in the Ft. McMurray area." Abstract and presentation. *Watertech 2014*. Banff, Alberta. April 2014.

Haluszka A. and M. McLean. 2013. "Refining shallow Hydrogeologic Conceptual Models with cased hole geophysical logs from oil and gas industry wells." Abstract and presentation. *Alberta Watershed Planning and Advisory Councils Summit 2013*. Cold Lake, Alberta. September 2013.

MacMillan G., Hayley K., Haluszka A., Jacksteit R., Rosenthal S., and S. Rayner. 2012. "Evaluation of the Cumulative Effects of Groundwater Use in Alberta's Oil Sands." Abstract and presentation. *International Association of Hydrogeologists 2012 Congress*. Niagara Falls, Ontario. September 2012.

Haluszka A. and G. MacMillan. 2010. "Groundwater and Underground Coal Gasification in Alberta". Abstract and presentation. *Watertech 2010*. Banff, Alberta. April 2010.

References gladly provided upon request
