



REFERENCES

- Adams, J. and Basham, P., 1989. The seismicity and seismotectonics of Canada east of the Cordillera, Geoscience Canada 16. p. 3-16.
- Adams J., Dredge, L., Fenton, C., Grant, D. and Shilts, W., 1993. Late Quaternary faulting in the Rouge River valley, southern Ontario: Seismotectonic or glaciotectionic? Geological Survey of Canada, Open file 2652.
- Adams, J. and Fenton, C., 1994. Stress relief and incidental geological observations in and around Ottawa, Ontario, in Current Research 1994-D; Geological Survey of Canada. p. 155-160.
- Anderson, M., and W. Woessner, 1992. Applied Groundwater Modeling, Simulation of Flow and Advective Transport, Academic Press, 381.
- Asgharzadeh Sadegh, P., 2012, Focal Mechanisms and Variations in Tectonic Stress Fields in Eastern Canada (Western Quebec and Southern Ontario), MSc Thesis. Queen's University, Kingston, Ontario, Canada.
- Aylsworth, J., Lawrence, D. and Guertin, J., 2000. Did two massive earthquakes in the Holocene induce widespread landsliding and near surface deformation in part of the Ottawa Valley, Canada? Geology 28. p. 903-906.
- Aylsworth, J.M. and Lawrence, D.E., 2003. Earthquake-Induced Landsliding East of Ottawa: A Contribution to the Ottawa Valley East Landslide Project. Geohazards 2003.
- Baird, A., McKinnon, D. and Godin, L., 2009. Relationship between structures, stress, and seismicity in the Charlevoix seismic zone revealed by 3-D geomechanical models: Implications for the seismotectonics of continental interiors, Journal of Geophysical Research 115, B11402, 16 pp.
- Batelle Memorial Institute, 1989. Chemical Databases for the Multimedia Environmental Pollutant Assessment System (MEPAS). Version 1.
- Bishop, D., 1995. Practical aspects of geosynthetic clay liners (GCLs). Geosynthetics World, Vol. 5, No 5.
- Bleeker, W., Dix, G. R., Davidson A. and LeCheminant, A., 2011. Tectonic Evolution and Sedimentary Record of the Ottawa-Bonnechere Graben: Examining the Precambrian and Phanerozoic History of Magmatic Activity, Faulting and Sedimentation. Field trip Guidebook Prepared for Ottawa 2011 Joint Annual Meeting of GAC/AGC – MAC/AMC – SEG – SGA, 20-24 May 2011.
- Brooks, G.R., 2013. A massive sensitive clay landslide, Quyon Valley, southwestern Quebec, Canada, and evidence of a paleoearthquake triggering mechanism. Quaternary Research (2013).
- Bouwer, H. and Rice, R.C., 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, Water Resources Research, vol. 12, no. 3, pp. 423-428.
- Butler, J.J., Jr., 1998. The Design, Performance, and Analysis of Slug Tests, Lewis Publishers, New York, 252.
- Carr, S. D., Easton, R. M., Jamieson, R. A., Culshaw, N. G., 2000, Geologic transect across the Grenville Orogen of Ontario and New York, Canadian Journal of Earth Sciences 37. p. 193-216.



- Charron, J.E., 1978. Hydrochemical Study of Groundwater Flow in the Interstream Area between the Ottawa and St. Lawrence Rivers. Scientific Series N. 76, Environment Canada, Inland Waters Directorate, Water Resources Branch, Ottawa, Ontario.
- City of Ottawa. (2014). Water Environment Protection Program (WEPP): Water Quality in Ottawa's Rivers and Streams. 2008 to 2014 water quality data from Bear Brook Creek. Public Works, City of Ottawa.
- Dix, G.R., and Jolicoeur, C., 2011. Tectonostratigraphic Framework of Upper Ordovician Source Rocks, Ottawa Embayment (Eastern Ontario). Bulletin of Canadian Petroleum Geology, Vol. 59, NO. 1, March 2011, P. 7-26.
- Fisheries and Oceans Canada, 2010. *L-2 - What You Should Know About Fish Habitat and A Class Authorization System for the Maintenance of Agricultural Municipal Drains in Ontario*. Retrieved January 22, 2013, from Fisheries and Oceans Canada: <http://www.dfo-mpo.gc.ca/regions/CENTRAL/pub/factsheets-feuilletsinfos-on/l2-eng.htm>, July 9, 2010.
- Eaton, D., Dineva, S., Mereu, R., 2006, Crustal thickness and Vp/Vs variations in the central Grenville Orogen (Ontario, Canada) from analysis of teleseismic receiver functions. *Tectonophysics*, 420. p. 223-238.
- Ellsworth, J., 2007, Landslides and Earthquakes in Sensitive Marine Clay Near Ottawa, Filed Trip Guide Book, CANQUA, Ottawa.
- Egloffstein, T.A., 2001. Natural bentonites – influence of ion exchange and partial desiccation on permeability and self-healing capacity of bentonites used in GCLs. *Geotextiles and Geomembranes*, 19(7), pgs 427 – 444.
- EPRI, 2012, Technical Report: Central and Eastern United States Seismic Source Characterization for Nuclear Facilities. EPRI, Palo Alto, CA, U.S. DOE, and U.S. NRC: 2012.
- Environment Canada, 2010. Ottawa International Airport Weather Data and Water Budget Values, 1939 to 1999.
- Fail, R. T., 1997, A geologic history of the north-central Appalachians, Part 1 Orogenesis from the Mesoproterozoic through the Taconic Orogeny, *American Journal of Science* 297. p. 551-619.
- Freeze, J.A. and Cherry, J.A., 1979. *Groundwater*. New Jersey, Prentice-Hall Inc., 604.
- Godin, L., Brown, R., Dreimanis, A., Atkinson, G. and Armstrong, D., 2002. Analysis and reinterpretation of deformation features in the Rouge River valley, Scarborough, Ontario. *Canadian Journal of Earth Science* 39. p. 1373-1391.
- Golder Associates Ltd., 2004. Preliminary Report On, Wellhead Protection Study, Vars and Limoges Communal Wells. November 2004.
- Golder Associates Ltd., 2013. Comparative Evaluation of Alternative Studies, Geology, Hydrogeology and Geotechnical Component, Appendix SD1-B. August 2013.
- Hurd, O., Zoback, M.D., 2012. Interplate earthquakes, regional stress and fault mechanics in the Central and Eastern U.S. and Southeastern Canada, *Tectonophysics*, 581. p.182-192.
- Hunter, J.A., Crow, H.L., Brooks, G.R., Pyne, M., Lamontagne, M., Pugin, A.J.-M., Pullan, S.E., Cartwright, T., Douma, M., Burns, R.A., Good, R.L., Oliver, J., Motazedian, D., Khaheshi-Banab, K., Caron, R., Dion, K.,



- Dixon, L., Duxbury, A., Folahan, I., Jones, A., Kolaj, M., Landriault, A., Muir, D., Plastow, K., Ter-Emmanuil, V., 2012. Ottawa – Gatineau Seismic Site Classification Map From Combined Geological/Geophysical Data; Geological Survey of Canada, Open File 7076, scale 1:80,000. doi:10.4095/291440.
- Itasca Consulting Group, 2008. FLAC2D: Fast Lagrangian Analysis of Continua, version 6.0. User's manual, Minneapolis.
- Kumarapeli, S., 1987. Seismic Zones, Ancient Fault Systems, and Post-Glacial Faulting in Eastern Canada, Geological Survey of Canada, Open File 1617.
- Lamontagne, M., Demers, D., and Savopol, F., 2007. Description et Analyse du Glissement de Terrain Meurtrier du 25 October 1870 Dans le Rang des Lahaie, Saint-Genevieve-de-Batiscan, Quebec. Canadian Journal of Earth Sciences, 44: 947-960.
- Logan, C., Cummings, D.I., Pullan, S., Pugin, A., Russel, H.A.J. and D.R. Sharpe, 2009. Hydrostratigraphic model of the South Nation watershed region, south-eastern Ontario. Geological Survey of Canada, Open File 6206.
- Ministry of the Environment, 1994a. Water Management – Policies, Guidelines, Provincial Water Quality Objectives of the Ministry of the Environment and Energy. Ontario Ministry of the Environment and Energy. July 1994 (Reprinted 1999).
- Ministry of the Environment, 1994b. Guideline B-7: Incorporation of the Reasonable Use Concept into MOE Groundwater Management, (Formerly Policy 15-08): MOE Program Development Branch: Ontario Ministry of the Environment and Energy, April 1994, 8 p.
- Ministry of the Environment, 1998a. *Ontario Regulation 232/98* made under Part V of the *Environmental Protection Act*.
- Ministry of the Environment, 1998b. Landfill Standards – A Guideline on the Regulatory and Approval Requirements for New or Expanding Landfilling Sites (Revised January 2012).
- Ministry of the Environment (MOE), 2004. *Records of Site Condition- Part XV.1 of the Act: Ontario Regulation (O.Reg.) 153/04*. Last updated: December 2013.
- Ministry of the Environment, 2006. Technical Support Document for Ontario Drinking Water Quality Standards, Objectives and Guidelines, June 2003, revised June 2006: Ontario Ministry of the Environment, 42 p.
- Ministry of Environment, 2011. Wells Regulation, *Ontario Regulation 903* made under the *Ontario Water Resources Act*.
- Ministry of the Environment (MOE). (2013). Water Well Information System (WWIS). <http://www.ene.gov.on.ca/environment/en/mapping/wells/index.htm> (Accessed June 10, 2013).
- Ministry of Municipal Affairs and Housing (MMAH). (2012). Ontario Building Code. Administered by the Building and Development Branch of the Ministry of Municipal Affairs and Housing.
- Ministry of Natural Resources and Forestry, Oil, Gas and Salt Resource Library.



- Mohajer, A., Eyles, N. and Rogojina, C., 1992. Neotectonic faulting in metropolitan Toronto: Implications for earthquake hazard assessment in the Lake Ontario region, *Geology* 20. p. 1003-1006.
- National Research Council of Canada (NRC). (2010). National Building Code of Canada. Ottawa, Canadian Commission on Building and Fire Codes, National Research Council of Canada.
- Ontario Geological Survey, 1985. Paleozoic Geology Russell-Thurso Area, Map P.2717, scale 1:50,000.
- Ontario Ministry of Northern Development and Mines, 1991. Quaternary Geology of Ontario, Southern Sheet, Map 2556, scale 1:1,000,000.
- Rimando, R. and Benn, K., 2005. Evolution of faulting and paleo-stress field within the Ottawa Graben, Canada, *Journal of Geodynamics* 39. p. 337-360.
- Rowe, R.K., Golder Associates Ltd., Fenco MacLaren Inc., M.M. Dillon Ltd. and Applied Groundwater Research Ltd., 1994a. Leachate Characterization. Report Prepared for Interim Waste Authority Ltd.
- Rowe, R.K., Booker, J.R. and Fraser, M.J. 1994. POLLUTE (Version 6.2); Distributed by GAEA Environmental Engineering Ltd.
- Sanford, B. V. and Arnott, R. W. C., 2010. Stratigraphic and structural framework of the Potsdam Group in eastern Ontario, western Quebec, and northern New York State, *Geological Survey of Canada Bulletin* 597.
- Schroeder, P.R., Dozier, T.S., Zappi, P.A., McEnroe, B.M., Sjoström, J.W. and Peyton, R.L., 1994. The hydrologic Evaluation of Landfill Performance (HELP) Model: Engineering Documentation for Version 3, EPA/600/9-94/xxx, U.S. Environmental Protection Agency Risk Reduction Engineering Laboratory, Cincinnati, OH.
- South Nation Conservation Authority, 2012. *Raisin-South Nation Source Protection Region: Map 2: Drinking Water Systems*. Ottawa, ON: Raisin-South Nation Conservation Authority.
- Raisin Region-South Nation Source Protection Region, 2012. Assessment Report, South Nation Source Protection Area. December 2012.
- Wallach, J., 1994, AECB assessment of Geological Survey of Canada Open-file report 2652 entitled "Late Quaternary faulting in the Rouge River Valley, Southern Ontario.
- Wallach, J.L. (2014). A Low-relief Hill in Eastern Ontario, Canada, Covered by the Easily Erodible Queenston Formation and Derived Sediments - Probably the Result of Quaternary Tectonic Uplift. *Canadian Journal of Earth Sciences*. 51. p. 862–876.
- Water & Earth Sciences Associates, 1986. Hydrogeology Data, Sites 3 and 10 Phase I Report, Regional Municipality of Ottawa-Carleton. November 1986.
- Water & Earth Sciences Associates, 1987. Hydrogeological Investigation Candidate Landfill Sites 3 and 10 Final Report, Regional Municipality of Ottawa-Carleton. March 1987.



- Water & Earth Sciences Associates and Earthfx, 2006. Preliminary Watershed Characterization for the Water Budget Conceptual Model, Raisin Region CA and South Nation Conservation Source Protection Partnership. April 2006.
- Water & Earth Sciences Associates, 2010. Groundwater Vulnerability Analyses, Vars and Limoges Water Supplies. August 2010.
- Williams, D.A., 1991. Paleozoic Geology of the Ottawa-St. Lawrence Lowland, Southern Ontario; Ontario Geological Survey, Open File Report 5770, 292p.