



Glenn Harrington B.Sc. Hons. PhD.
Director & Principal Hydrogeologist

Overview

Glenn is a highly motivated and widely respected hydrogeologist with more than 20 years experience in groundwater assessment and management. He began his professional career in the South Australian Government where he worked for many years in a variety of roles ranging from research and technical assessment through to policy development and senior management. After a year working abroad as a postdoctoral scientist in Canada, Glenn had another two-year stint in state government before moving into the private sector for a year. From 2008 to 2013 Glenn was the Groundwater Research Stream Leader at CSIRO Water for a Healthy Country Flagship and was responsible for managing large, multi-disciplinary projects in many parts of the country, including northern Australia and Tasmania.

Glenn has considerable technical expertise in arid zone hydrology, estimating fluid flow and solute transport in aquitards (i.e., low-permeability rocks), surface water-groundwater interaction, isotope hydrology, environmental geochemistry and groundwater modelling. He has published widely in the international, peer-reviewed scientific literature, and has attended numerous international conferences including many as an invited speaker. Glenn has served on a number of committees including the Technical Audit Panel for the Victorian Department of Sustainability and Environment. He has also worked with the International Atomic Energy Agency, both as a technical consultant (Vietnam) and as an active participant in Coordinated Research Projects (USA and Austria).

Glenn's country upbringing, coupled with his diverse professional experience, has enabled him to work aptly at the interface between science and policy in rural and remote regions of Australia.

Qualifications

- 2000 PhD. Flinders University, South Australia.
Thesis: *Recharge Mechanisms and Chemical Evolution in an Arid Groundwater System, Ti-Tree Basin, Central Australia*
- 1996 B.Sc. Hons. Flinders University, South Australia.
(1st Class)
Thesis: *Development of a Compartmental Mixing-Cell Model for a Regional Groundwater System in South-Eastern South Australia*
- 1995 B.Sc. Flinders University, South Australia

Employment History

July 2013 – present

Director and Principal Hydrogeologist: Innovative Groundwater Solutions Pty Ltd.

May 2008 – July 2013

Research Stream Leader, Groundwater Assessment & Prediction: CSIRO

May 2007 – May 2008

Principal Hydrogeologist: Resource and Environmental Management Pty Ltd.

May 2005 – May 2007

Manager, Groundwater Resource Assessment South East:

South Australia Government – Department of Water, Land and Biodiversity Conservation

March 2004 – April 2005

Postdoctoral Research Fellow: University of Saskatchewan, Saskatoon, Canada

February 2000 – March 2004

Senior Hydrogeologist:

South Australia Government – Department of Water, Land and Biodiversity Conservation

February 1996 – November 1999

PhD. Candidate: CSIRO Land and Water, Adelaide, and Flinders University of South Australia

Recent Major Projects

Technical Advisor & GDE Reconnaissance Survey, West Kimberley Water for Food Project

Feb. 2015 – Jun. 2016, Department of Water Western Australia

Recharge and flow in the Broome Sandstone Aquifer, La Grange Groundwater Area

Jan. 2014 – Jun. 2016, Department of Agriculture and Food Western Australia

Visiting Scientist Program 2014-2015

Groundwater models to evaluate alternative management options in Hynam East

Nov. 2013 – Feb. 2016, Hynam East Irrigator Group

Water Resources Expert, Surat Basin Water Monitoring and Management Plan

Jun. 2015 – Dec. 2016, Arrow Energy.

Water Resources Expert, Bowen Basin Groundwater Monitoring and Management Plan

Aug. 2015 – Feb. 2016, Arrow Energy.

Groundwater Monitoring Plan for PEL96 in the Southern Cooper Basin

Sep. 2014 – Sep. 2015, Strike Energy Ltd.

Lower Fitzroy River Groundwater Review

Mar. 2015 – May 2015, Western Australia Department of Water

Duck River Transmission Loss (Modelling) Assessment

Dec. 2014 – Mar. 2015, Tasmanian Irrigation Pty Ltd.

Groundwater Chemistry and Isotope Survey for the Murray-Peel Groundwater Area

Feb. 2014 – Feb. 2015, Western Australia Department of Water

Bool Lagoon Wellfield Investigation Hydrochemical Assessment

Nov. 2013 – Feb. 2015, South Australian Water Corporation

Technical advice and training on environmental tracer techniques, Dampier Peninsula

Oct. 2014 – Nov. 2014, Western Australia Department of Water

Hydrogeochemistry of the Eyre Peninsula Natural Resources Management Region

Jan. 2014 – Jun. 2014, SA Department of Environment Water & Natural Resources

Modelling vertical profiles of natural tracers in the Williston Basin, Canada

Oct. 2013 – Jun. 2014, University of Saskatchewan

Independent hydrological review for the Mangles Bay Marina Proposal, Point Peron WA

Partnership with Flinders University

Oct. 2013 – Oct. 2014, Commonwealth Government Department of the Environment

Publications

International Peer-Reviewed Journals

1. Batlle-Aguilar, J., Cook, P.G. and **Harrington, G.A.** (2016). Comparison of hydraulic and chemical methods for determining hydraulic conductivity and leakage rates in argillaceous aquitards. *Journal of Hydrology*, 532: 102-121.
2. Leblanc, M., Tweed, S., Lyon, B.J., Bailey, J., Franklin, C.E., **Harrington, G.** and Suckow, A. (2015). On the hydrology of the bauxite oases, Cape York Peninsula, Australia. *Journal of Hydrology*, 528: 668-682.
3. Tweed, S., Leblanc, M., Bass, A., **Harrington, G.A.**, Munksgaard, N. and Bird, M.I. (2015). Leaky savannas: the significance of lateral carbon fluxes in the seasonal tropics. *Hydrological Processes*.
4. Welch, C., **Harrington, G.A.** and Cook, P.G. (2015). Influence of groundwater hydraulic gradient on bank storage metrics. *Groundwater*, 53 (5): 782-793, doi: 10.1111/gwat.12283
5. Wood, C., Cook, P.G. and **Harrington, G.A.** (2015). Vertical carbon-14 profiles for resolving spatial variability in recharge in arid environments. *Journal of Hydrology*, 520: 134-142.
<http://dx.doi.org/10.1016/j.jhydrol.2014.11.044>
6. Smerdon, B.D., Smith, L.A., **Harrington, G.A.**, Gardner, W.P., Delle Piane, C. and Sarout, J. (2014). Can the hydraulic properties of an aquitard be estimated from in situ pore pressure measurement? *Hydrogeology Journal*, 22(8): 1875-1887. <http://dx.doi.org/10.1007/s10040-014-1161-x>
7. Wood, C., Cook, P.G., **Harrington, G.A.**, Meredith, K. and Kipfer, R. (2014). Factors affecting carbon-14 activity of unsaturated zone CO₂ and implications for groundwater dating. *Journal of Hydrology*, 519A: 465-475. <http://dx.doi.org/10.1016/j.jhydrol.2014.07.034>
8. Bourke, S.A., **Harrington, G.A.**, Cook, P.G., Post, V.E. and Dogramaci, S. (2014). Carbon-14 in streams as a tracer of discharging groundwater. *Journal of Hydrology*, 519A: 117-130.
<http://dx.doi.org/10.1016/j.jhydrol.2014.06.056>
9. Hendry, M.J. and **Harrington, G.A.** (2014). Comparing vertical profiles of natural tracers in the Williston Basin to estimate the onset of deep aquifer activation. *Water Resources Research*, 50(8): 6496–6506, <http://dx.doi.org/10.1002/2014WR015652>
10. Noorduijn, S.L., **Harrington, G.A.** and Cook, P.G. (2014). The representative stream length for estimating surface water - groundwater exchange using Darcy's Law. *Journal of Hydrology*, 513: 353-361, <http://dx.doi.org/10.1016/j.jhydrol.2014.03.062>
11. Welch, C., **Harrington, G.A.**, Leblanc, M., Batlle-Aguilar, J. and Cook, P.G. (2014). Relative rates of solute and pressure propagation into heterogeneous alluvial aquifers following river flow events. *Journal of Hydrology*, 511: 891-903, <http://dx.doi.org/10.1016/j.jhydrol.2014.02.032>
12. Wood, C. and **Harrington, G.A.** (2014). Influence of seasonal variations in sea level on the salinity regime of a coastal groundwater-fed wetland. *Ground Water*. 53 (1): 90-98, doi: 10.1111/gwat.12168
13. Batlle-Aguilar, J., **Harrington, G.A.**, Leblanc, M., Welch, C. and Cook, P.G. (2014). Chemistry of groundwater discharge inferred from longitudinal river sampling. *Water Resources Research*, 50: 1550–1568, doi:[10.1002/2013WR013591](http://dx.doi.org/10.1002/2013WR013591)

14. Noorduijn, S.L., Shanafield, M., Trigg, M.A., **Harrington, G.A.**, Cook, P.G. and Peeters, L. (2014). Estimating seepage flux from ephemeral stream channels using surface water and groundwater level data. *Water Resources Research*, 50: 1474–1489, doi:[10.1002/2012WR013424](https://doi.org/10.1002/2012WR013424)
15. **Harrington, G.A.**, Gardner, W.P. and Munday, T.J. (2013). Tracking groundwater discharge to a large river using tracers and geophysics. *Ground Water*, 52(6): 837-852. doi:10.1111/gwat.12124
16. Welch, C., Cook, P.G., **Harrington, G.A.** and Robinson, N.I. (2013). Propagation of solutes and pressure into aquifers following river stage rise. *Water Resources Research*, 49(9): 5246–5259. doi:10.1002/wrcr.20408
17. Liedloff, A.C., Woodward, E.L., **Harrington, G.A.** and Jackson, S. (2013). Integrating indigenous ecological and scientific hydro-geological knowledge using a Bayesian Network in the context of water resource development. *Journal of Hydrology*, 499: 177-187, doi:10.1016/j.jhydrol.2013.06.051
18. **Harrington, G.A.**, Gardner, W.P., Smerdon, B.D. and Hendry, M.J. (2013). Palaeohydrogeological insights from natural tracer profiles in aquitard porewater, Great Artesian Basin, Australia. *Water Resources Research*, 49: 4054–4070. doi:10.1002/wrcr.20327
19. Gardner, W.P., **Harrington, G.A.** and Smerdon, B.D. (2012). Using excess ⁴He to quantify variability in aquitard leakage. *Journal of Hydrology*, 468-469: 63-75.
20. Smerdon, B.D., Gardner, W.P., **Harrington, G.A.** and Tickell, S.J. (2012). Identifying the contribution of regional groundwater to the base flow of a tropical river (Daly River, Australia). *Journal of Hydrology*, 464-465: 107-115.
21. Gardner, W.P., **Harrington, G.A.**, Solomon, D.K. and Cook, P.G. (2011). Using terrigenic ⁴He to identify and quantify regional groundwater discharge to streams. *Water Resources Research*, 47, W06523. doi:10.1029/2010WR010276
22. Post, D.A., Chiew, F.H.S., Teng, J., Viney, N.R., Ling, F.L.N., **Harrington, G.A.**, Crosbie, R.S., Graham, B., Marvanek, S. and McLoughlin, R. (2011). A robust methodology for conducting large-scale assessments of current and future water availability and use: a case study in Tasmania, Australia. *Journal of Hydrology*, 412-413: 233-245.
23. Moldovan, B.J., Hendry, M.J. and **Harrington, G.A.** (2008). The arsenic source term for an in-pit uranium tailings facility and its long-term impact on the regional groundwater. *Applied Geochemistry*, vol. 23, no. 6, pp. 1437-1450.
24. **Harrington, G.A.**, Hendry, M.J. and Robinson, N.I. (2007). The impact of permeable conduits on solute transport in aquitards: mathematical models and their application. *Water Resources Research*, 43, W05441, doi:10.1029/2005WR004144.
25. **Harrington, G.A.** and Hendry, M.J. (2006). Using direct-push EC logging to delineate heterogeneity in a clay-rich aquitard. *Ground Water Monitoring and Remediation*, Winter 2006, vol. 26, no. 1, pp. 92-100.
26. **Harrington, G.A.** and Hendry, M.J. (2005). Chemical heterogeneity in diffusion-dominated aquitards. *Water Resources Research*, 41, W12432, doi:10.1029/2004WR003928
27. **Harrington, G.A.** and Herczeg, A.L. (2003). The importance of silicate weathering of a sedimentary aquifer in arid Central Australia indicated by very high ⁸⁷Sr/⁸⁶Sr ratios. *Chemical Geology*, 199: 281-292.

28. **Harrington, G.A.**, Cook, P.G. and Herczeg, A.L. (2002). Spatial and temporal variability of groundwater recharge in central Australia: a tracer approach. *Ground Water*, vol. 40, no. 5, pp. 518-528.
29. **Harrington, G.A.**, Cook, P.G. and Robinson, N.I. (2000). Equilibration times of gas-filled diffusion samplers in slow-moving groundwater systems. *Groundwater Monitoring and Remediation*, Spring 2000, pp. 60-65.
30. **Harrington, G.A.**, Walker, G.R., Love, A.J. and Narayan, K.A. (1999). A compartmental mixing-cell approach for the quantitative assessment of groundwater dynamics in the Otway Basin, South Australia. *Journal of Hydrology*, 214: 49-63.

Books and Book Chapters

31. **Harrington, G.A.**, Smerdon, B.D., Gardner, W.P., Taylor, A.R. and Hendry, M.J. (2013). Diffuse Discharge. In: Love, A.J., Shand, P., Crossey, L., **Harrington, G.A.** and Rousseau-Gueutin, P. (Eds.) *Allocating water and maintaining springs in the Great Artesian Basin, Volume III: Groundwater discharge of the western Great Artesian Basin*, National Water Commission, Canberra.
32. Richardson, S.R., Evans, W.R. and **Harrington, G.A.** (2011). Connecting science and engagement: setting groundwater extraction limits using a stakeholder-led decision-making process. In: Connell, D. and Grafton, R.Q. (Eds.) *Basin Futures, Water reform in the Murray-Darling Basin*. ANU Press, Canberra, Australia. 477 pp.
33. Love, A.J., Simmons, C.T., Cook, P.G., **Harrington, G.A.**, Herczeg, A.L. and Halihan, T. (2007). Chapter 31, Estimating groundwater flow rates in fractured metasediments: Clare Valley, South Australia. In: Krasny, J. and Sharp, J.M. (Eds.) *Groundwater in Fractured Rocks: selected papers from the Groundwater in Fractured Rocks International Conference, Prague, 2003*. International Association of Hydrogeologists Selected Papers, Volume 9. Taylor and Francis, The Netherlands, pp. 463-478.
34. Zuber, A., Maloszewski, P., Campana, M.E., **Harrington, G.A.**, Tezcan, L. and Konikow, L. (2001). Compartmental model approaches to groundwater flow simulation. In: *Volume VI: Modelling* (Y. Yurtsever, series Ed.), UNESCO/IAEA series on *Environmental Isotopes in the Hydrological Cycle, Principles and Applications* (W.G. Mook, Ed.).

Refereed Conference Papers

35. Munday, T., Fitzpatrick, A., Cahill, K. and **Harrington, G.** (2012). Elucidating the nature of surface water-groundwater interactions beneath a large unregulated river system with the aid of AEM data. *ASEG Extended Abstracts, 2012(1)*, 1-5.
36. Moldovan, B., Hendry, M.J., Jiang, D.T. and **Harrington, G.A.** (2005). Geochemical and mineralogical controls on arsenic release from uranium mine tailings. Proceedings of 15th Annual V M Goldschmidt Conference, May 2005, Moscow. *Geochimica et Cosmochimica Acta*, vol. 69, is. 10, page A615.
37. **Harrington, G.A.**, Love, A.J. and Sanford, W.E. (2002). Aquifer storage and recovery in a fractured rock aquifer of the Clare Valley, South Australia. In: Dillon (Ed.), *Management of aquifer recharge for sustainability*, Proceedings of the 4th international symposium on artificial recharge, ISAR-4, Adelaide, Australia, 22-26 September 2002. A.A. Balkema, Lisse, pp. 315-318.
38. **Harrington, G.A.**, Love, A.J. and Herczeg, A.L. (2001). Relative importance of physical and geochemical processes affecting solute distributions in a clay aquitard. In: Cidu (Ed.), *Proceedings of*

10th International Symposium on Water-Rock Interaction, Villasimius, Italy, June 2001. A.A. Balkema, vol. 1, pp. 177-180.

39. **Harrington, G.A.** and Herczeg, A.L. (1999). Estimating groundwater ¹⁴C ages in the arid Ti-Tree Basin, Central Australia: Use of ⁸⁷Sr/⁸⁶Sr to constrain sources of inorganic carbon. In: Isotope Techniques in Water Resources Management and Development, Proceedings of a Symposium on Isotope Techniques in Water Resources Management and Development, IAEA, Vienna, May 1999.
40. **Harrington, G.A.**, Love, A.J. and Walker, G.R. (1999). Use of environmental isotopes to constrain regional groundwater flow models: Case study, Otway Basin, South Australia. In: IAEA-TECDOC, Proceedings of a final coordination meeting on Use of Isotopes for Analyses of Flow and Transport Dynamics in Groundwater Systems, USGS, Reston, May 1998.
41. **Harrington, G.A.** and Herczeg, A.L. (1998). A geochemical model for groundwaters of the arid Ti-Tree Basin, Central Australia. In: Arehart and Hulston (Eds.), Proceedings of 9th International Symposium on Water-Rock Interaction, Taupo, New Zealand. A.A. Balkema, pp. 231-234.
42. **Harrington, G.A.**, Herczeg, A.L. and Cook, P.G. (1998). Groundwater Sustainability in the Ti-Tree Basin, Central Australia: inferences from environmental isotopes and hydrochemistry. Proceedings of 1998 International Groundwater Conference, International Association of Hydrogeologists, Melbourne, Australia, pp. 157-162.

Client and Technical Reports

43. **Harrington, G.A.**, and Harrington, N.M., (2016). A hydrochemical assessment of groundwater recharge and flow in the Broome Sandstone Aquifer, La Grange Area, Western Australia. A report prepared for Department of Agriculture and Food, Western Australia by Innovative Groundwater Solutions, Final version, 21 June 2016.
44. **Harrington, G.A.**, and Harrington, N.M., (2016). A preliminary assessment of groundwater contribution to wetlands in the lower reaches of Fitzroy River catchment. A report prepared for Department of Water, Western Australia by Innovative Groundwater Solutions, Final version, 11 April 2016.
45. **Harrington, G.A.** and Harrington, N.M. (2016). Hynam East Groundwater Model. Report No. 2: Model development, calibration and scenario testing. A report prepared for irrigators in the Hynam East Management Area, Lower Limestone Coast Prescribed Wells Area, Final version, 19 February 2016.
46. Harrington, N.M, and **Harrington, G.A.** (2015). Groundwater and spring monitoring in the southern Cooper Basin and Great Artesian Basin. A report prepared for Strike Energy by Innovative Groundwater Solutions, 8 December 2015.
47. Harrington, N.M. and **Harrington, G.A.** (2015). Investigation of Groundwater Characteristics in the Barossa Region using environmental tracers. A report prepared for Department of Environment, Water and Natural Resources, South Australia by Innovative Groundwater Solutions, 17 July 2015.
48. **Harrington, G.A.** (2015). Preliminary isotope assessment, LaGrange Groundwater Area. A report prepared for Department of Agriculture and Food, Western Australia by Innovative Groundwater Solutions, 16 July 2015.

49. **Harrington, G.A.** and Harrington, N.M. (2015). Lower Fitzroy River Groundwater Review. A report prepared for Department of Water, Western Australia by Innovative Groundwater Solutions, 15 May 2015. <http://www.waterforfood.wa.gov.au/pdf/lower-fitzroy-river-groundwater-review.pdf>.
50. Sheldon, R. and **Harrington, G.** (2015). Duck River: Transmission Loss Assessment. Tasmanian Irrigation Circular Head Irrigation Scheme. Draft Report, 16 March 2015.
51. **Harrington, G.A.** (2015). Bool Lagoon Wellfield Investigation Groundwater Chemistry Assessment. A report prepared for SA Water Corporation by Innovative Groundwater Solutions, Final Version, 5 February 2015.
52. **Harrington, G.A.** (2014). Broome Sandstone Aquifer, La Grange Groundwater Area. A preliminary report on the hydrochemistry and groundwater recharge rates, with recommendations for future drilling and environmental tracer sampling. A report prepared for Department of Agriculture and Food, Western Australia by Innovative Groundwater Solutions, 27 March 2014.
53. **Harrington, G.A.** (2014). Hynam East Groundwater Model. Progress Report 1: Data collation and preliminary interpretation. A report prepared for GA Young & Sons on behalf of irrigators in the Hynam East Management Area, Lower Limestone Coast PWA. Version 2. 18 February 2014.
54. **Harrington, G.A.** (2014). Groundwater Chemistry and Isotope Survey for the Murray-Peel groundwater project area. Western Australia Department of Water, Hydrogeological Report series, HR346.
55. Risby, L. and **Harrington, G.** (2014). Non-prescribed groundwater resources assessment - Eyre Peninsula Natural Resources Management Region, Phase 2 – Hydrogeochemistry. South Australia Department of Environment, Water and Natural Resources, Technical report 2014/10.
56. **Harrington, G.A.** et al. (2014). Aquifer connectivity within the Great Artesian Basin, and the Surat, Bowen and Galilee Basins, Background review, Commonwealth of Australia 2014.
57. Turnadge, C., Petheram, C., Davies, P. and **Harrington, G.** (2013). Water Resources. In: Grice, A.C., Watson, I. and Stone, P. [Eds.] *Mosaic irrigation for the northern Australian beef industry. An assessment of sustainability and potential. Technical report*. A report prepared for the Office of Northern Australia. CSIRO, Brisbane.
58. Jolly, I., Taylor, A.R., Rassam, D., Knight, J., Davies, P. and **Harrington, G.** (2013). Surface water – groundwater connectivity. A technical report to the Australian Government from the CSIRO Flinders and Gilbert Agricultural Resource Assessment, part of the North Queensland Irrigated Agriculture Strategy. CSIRO Water for a Healthy Country and Sustainable Agriculture flagships, Australia.
59. Turnadge, C., Smith, S. and **Harrington, G.** (2013). The influence of geological faults on groundwater flow. In: Harrington, N. and Lamontagne, S. [eds.] *Framework for a regional water balance model for the South Australian Limestone Coast region*. Goyder Institute for Water Research Technical Report Series No. 13/14.
60. Close, P.G., Wallace, J., Bayliss, P., Bartolo, R., Burrows, D., Pusey, B.J., Robinson, C.J., McJannet, D., Karim, F., Byrne, G., Marvanek, S., Turnadge, C., **Harrington, G.**, Petheram, C., Dutra, L.X.C, Dobbs, R., Pettit, N., Jankowski, A., Wallington, T., Kroon, F., Schmidt, D., Buttler, B., Stock, M., Veld, A., Speldewinde, P., Cook, B.A., Cook, B., Douglas, M., Setterfield, S., Kennard, M., Davies, P., Hughes, J., Cossart, R., Conolly, N. and Townsend, S. (2012). Assessment of the likely impacts of development and climate change on aquatic ecological assets in Northern Australia. A report for the National

Water Commission, Australia. Tropical Rivers and Coastal Knowledge (TRaCK) Commonwealth Environmental Research Facility, Charles Darwin University, Darwin. ISBN: 978-1-921576-66-9. 561pp.

61. Smerdon, B.D. and **Harrington, G.A.** (2011). Chapter 4: Surface water – groundwater interaction. In: Tickell, S.J. (Ed.) *Assessment of major spring systems in the Ooloo Dolostone, Daly River*. Northern Territory Department of Land Resource Management. Technical Report No. 22/2011D, p33-50. ISBN: 978-1-921937-31-6.
62. **Harrington, G.A.**, Turnadge, C., Smerdon, B.D., and Lenahan, M.J. (2011). Chapter 3: Hydrochemistry of the Ooloo aquifer. In: Tickell, S.J. (Ed.) *Assessment of major spring systems in the Ooloo Dolostone, Daly River*. Northern Territory Department of Land Resource Management. Technical Report No. 22/2011D, p26-32. ISBN: 978-1-921937-31-6.
63. Wallace, J., McJannet, D., Karim, F., Byrne, G., Marvanek, S., Turnadge, C., **Harrington, G.** and Petheram, C. (2011). Hydrology and Ecological flow thresholds, Chapter 3 contribution to the Northern Australia Water Futures Assessment (NAWFA) “Assessing the likely impacts of development on aquatic ecological assets in northern Australia”. CSIRO Water for a Healthy Country, 28 November 2011.
64. Van Dijk, A., Brinkley, A., Evans, R., **Harrington, G.**, Munday, T., Peeters, L. and Webb, L. (2011). New groundwater monitoring technologies. Client Report, CSIRO Water for a Healthy Country, 23 November 2011.
65. **Harrington, G.A.**, Stelfox, L., Gardner, W.P., Davies, P., Doble, R. and Cook, P.G. (2011). Surface water – groundwater interactions in the lower Fitzroy River, Western Australia. Technical Report, August 2011, CSIRO Water for a Healthy Country, 54 pp.
66. **Harrington, G.** and Cook, P.G. (2011). Mechanical loading and unloading of confined aquifers: implications for the assessment of long-term trends in potentiometric levels. Waterlines Report Series No 51, June 2011, Australian Government National Water Commission.
67. Smerdon, B.D. and **Harrington, G.A.** (2010). Technical review of monitoring and management of BHP Billiton’s Olympic Dam operations for Wellfields A and B in the Great Artesian Basin. Client Report, CSIRO Water for a Healthy Country, 13 pp.
68. **Harrington, G.A.**, Crosbie, R., Marvanek, S., McCallum, J., Currie, D., Richardson, S., Waclawik, V., Anders, L., Georgiou, J., Middlemis, H. and Bond, K. (2009). Groundwater assessment and modelling for Tasmania. A report to the Australian Government from the CSIRO Tasmania Sustainable Yields Project. CSIRO Water for a Healthy Country Flagship, Australia. December 2009.
69. Cresswell, R., Petheram, C., **Harrington, G.**, Buettikofer, H., Hodgen, M., Davies, P. and Li, L. (2009). Water Resources in northern Australia, In: Northern Australia Land and Water Science Review, October 2009.
70. Knapton, A., Jolly, P., **Harrington, G.** and Petheram, C. (2009). An investigation into the effects of climate change and groundwater development scenarios on the water resources of the Daly River Catchment using an integrated groundwater / surface water model. Northern Territory Department of Natural Resources, Environment, the Arts and Sport, 63 pp.

71. CSIRO. Water in the Timor Sea Drainage Division. A report to the Australian Government from the CSIRO Northern Australia Sustainable Yields Project. CSIRO Water for a Healthy Country Flagship, Australia. (2009).
72. CSIRO. Water in the Gulf of Carpentaria Drainage Division. A report to the Australian Government from the CSIRO Northern Australia Sustainable Yields Project. CSIRO Water for a Healthy Country Flagship, Australia. (2009).
73. CSIRO. Water in the Northern North-East Coast Drainage Division. A report to the Australian Government from the CSIRO Northern Australia Sustainable Yields Project. CSIRO Water for a Healthy Country Flagship, Australia. (2009).
74. Crosbie, R.S., McCallum, J.L., and **Harrington, G.A.** (2009). Diffuse groundwater recharge modelling across northern Australia. A report to the Australian Government from the Northern Australia Sustainable Yields Project. CSIRO Water for a Healthy Country National Research Flagship, Australia.
75. **Harrington, G.A.**, Currie, D. and Richardson, S. (2008). Adaptive management arrangements for groundwater in the South East of South Australia, National Water Initiative Project Progress Report PPR3.1, Resource & Environmental Management Pty Ltd. 36 pp.
76. **Harrington, G.A.**, et al. (2008). Conceptual model reports for the DPIW-National Water Commission project Development of models for Tasmanian groundwater resources, Resource & Environmental Management Pty Ltd. ([9 separate reports](#))
85. Latcham, B., Carruthers, R., **Harrington, G.A.** and Harvey, D. (2007). A new understanding of the level of development of the unconfined Tertiary Limestone Aquifer in the South East of South Australia. Department of Water, Land and Biodiversity Conservation Report 2007/11.
86. **Harrington, G.A.** (2006). Lower South East Connectors Environmental Impact Statement Background Paper: Impacts of Forest Plantations. Upper South East Dryland Salinity and Flood Management Program.
87. Brown, K.G., **Harrington, G.A.** and Lawson, J. (2006). Review of groundwater resource condition and management principles for the Tertiary Limestone Aquifer in the South East of South Australia. Department of Water, Land and Biodiversity Conservation Report 2006/02.
88. **Harrington, G.A.** (2004). Defining sources of groundwater for the Blackhill Springs, Lower Marne River, South Australia. A report to the River Murray Catchment Water Management Board. Department of Water, Land and Biodiversity Conservation Report 2004/20.
89. **Harrington, G.A.** (2004). Hydrogeological Investigation of the Mount Lofty Ranges, Progress Report 4: Groundwater - surface water interactions in the Scott Creek, Marne River and Tookayerta Creek Catchments. Department of Water, Land and Biodiversity Conservation Report 2004/11.
90. **Harrington, G.A.**, James-Smith, J.M., Wohling, D. and van den Akker, J. (2004). Hydrogeological Investigation of the Mount Lofty Ranges, Progress Report 5: Drilling Phases 2.1 to 2.3: Research and Monitoring Wells at Scott Creek, Balhannah, Willunga Fault, Lobethal, Eden Valley and Ashbourne. Department of Water, Land and Biodiversity Conservation Report 2004/04.
91. **Harrington, G.A.** (2004). Hydrogeological Investigation of the Mount Lofty Ranges, Progress Report 3: Borehole water and formation characteristics at the Scott Bottom research site, Scott Creek Catchment. Department of Water, Land and Biodiversity Conservation Report 2004/03.

92. Brown, K.G. and **Harrington, G.A.** (2003). The dynamic behavior of a stressed, semi-arid groundwater basin, Streaky Bay, South Australia. SA Department of Water, Land and Biodiversity Conservation Report 2003/08.
93. James-Smith, J.M. and **Harrington, G.A.** (2002). Hydrogeological investigation of the Mount Lofty Ranges, Progress Report 1: Hydrogeology and drilling phase I for Scott Creek Catchment. SA Department for Water, Land and Biodiversity Conservation Report 2002/17.
94. **Harrington, G.A.** (2002). Recharge mechanisms to Quaternary sand aquifers in the Willunga Basin, South Australia. SA Department for Water, Land and Biodiversity Conservation Report 2002/16.
95. Love, A.J., Cook, P.G., **Harrington, G.A.** and Simmons, C.T. (2002). Groundwater flow in the Clare Valley. SA Department for Water Resources, Special Report DWR02.03.0002.
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