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Appendix A: Research outputs

The attached DVD contains electronic versions of the following research outputs:

Journal Papers (core to PhD research):	
1	<u>Dahlhaus P.G.</u> , Cox J.W., Simmons C.T. & Smitt C.M. 2008 Beyond hydrogeologic evidence: challenging the current assumptions about salinity processes in the Corangamite region, Australia. <i>Hydrogeology Journal</i> 16: 1283 - 1298
2	<u>Dahlhaus P.G.</u> , Cox J.W., MacEwan R.J., Simmons C.T. & Clark R.M. Increasing land salinisation and falling watertables: assessing 20 years of salinity management in the Pittong region, western Victoria. <i>In preparation</i>
3	<u>Dahlhaus P.G.</u> , Evans T.J., Nathan E.L., Cox J.W. & Simmons C.T. Groundwater level response to land use change and the implications for salinity management in the West Moorabool River catchment, Victoria, Australia. <i>Hydrogeology Journal (available OnLine First, in the queue for hardcopy publication)</i>
4	<u>Dahlhaus P.G.</u> , Cox J.W. & Simmons C.T. Accentuate the positive: a standard framework for salinity risk management. <i>In preparation.</i>

Conference paper / abstract (core to PhD research)	
1	<u>Dahlhaus P.G.</u> & Fawcett J. 2008. Salinity without rising watertables: salinity processes and risk assessment in south-west Victoria, Australia. <i>2nd International Salinity Forum. Salinity, water and society - global issues, local action.</i> Adelaide, March 30 - April 4, 2008. 4p (on CD).
2	<u>Dahlhaus P.G.</u> 2006 A Standard Approach to Salinity Risk Management. Extended Abstracts, Australian Earth Sciences Convention, Melbourne July 2-7, 2006.
3	<u>Dahlhaus P.G.</u> and Cox J.W. 2005 Geomorphic and historical evidence of salinity in the Corangamite region, Australia – Implications for current salinity management. <i>International Salinity Forum. Managing Saline Soils and Water: Science, Technology, and Social Issues.</i> Riverside, California, April 25-27, 2005. Poster presentation abstracts, pp. 47-50.
4	<u>Dahlhaus P.G.</u> 2005. Salinity Risk Management. <i>UrbanSalt 2005 Seminar: Risk, Responsibility and Local Government.</i> Blacktown Council, Blacktown, 13th September 2005.
5	<u>Dahlhaus P.G.</u> 2004 Characterising groundwater flow systems for salinity management in the Corangamite Region, Australia. <i>Groundwater Flow Understanding from Local to Regional Scales, Proceedings XXXIII IAH & 7th ALHSUD Congress, Zacatecas, Mexico, 11–15 October 2004.</i> (on CD).

Conference paper / abstract (aligned to PhD research)	
1	Herczeg A., Barton A. & <u>Dahlhaus P.</u> 2008 Hydrochemical methods for rapid assessment of groundwater contribution to Wetlands. <i>Eos Trans. AGU</i> , 89(23), Western Pacific Geophysical Meeting. Supplement, Abstract H34A-01
2	MacEwan R.J., <u>Dahlhaus P.G.</u> & Fawcett J. 2008. Hydrogeology, Geomorphology and Groundwater processes hold the keys to land degradation – Case studies in SW Victoria, Australia. <i>Proceedings, 1st International Hydrogeology Conference, July 28-31 2008, The Pennsylvania State University, University Park, Pennsylvania, USA</i> . Abstracts, p64.
3	Barton A.B., Herczeg A.L., <u>Dahlhaus P.G.</u> & Cox J.W. 2007. A geochemical approach to determining the hydrological regime of wetlands in a volcanic plain, south-eastern Australia. <i>Groundwater and Ecosystems</i> . Proceedings of the XXXV IAH Congress, 17-21 September, Lisbon, Portugal.
4	Barton A., Cox J., <u>Dahlhaus P.</u> & Herczeg A. 2006. Groundwater flows and groundwater-surface water interactions in the Corangamite CMA region. <i>Regolith 2006. Consolidation and Dispersion of Ideas</i> . Proceedings, CRC LEME symposium, Hahndorf Resort, South Australia, November 2006. http://crclme.org.au/Pubs/Monographs/Regolith2006.html
5	Miner A.S. & <u>Dahlhaus P.G.</u> 2006. Geohazard risk management for municipal planning in the Corangamite region, Victoria, Australia. “ <i>Engineering geology for tomorrow’s cities</i> ” 10 th IAEG Congress, Nottingham, UK, 6-10 September 2006.

Reports (aligned to PhD research)	
1	Barton A.B., Herczeg A.L., <u>Dahlhaus P.G.</u> , & Cox J.W. 2008. Hydrological and geochemical processes controlling salinity of the groundwater dependent ecosystems in the Corangamite CMA. Project WLE/42-009; Final Report to the Corangamite Catchment Management Authority; CSIRO Land and Water, Adelaide.
2	<u>Dahlhaus P.G.</u> , O’Neil L.A. & Smith R.K. 2008. Corangamite CMA Salinity bore monitoring program. 2007 final report. Research report for Corangamite Catchment Management Authority, University of Ballarat, Geology, 53p.
3	<u>Dahlhaus P.G.</u> (compiler), Billows C.A., Carey S.P., Gwyther J. & Nathan E.L. 2007. Lake Connearre Values Project: Literature Review. University of Ballarat and Deakin University research report for the Corangamite Catchment Management Authority, Colac.
4	Cox J., <u>Dahlhaus P.</u> , Herczeg A., Crosbie R., Davies P. & Dighton J. 2006. Defining groundwater flow systems on the volcanic plains to accurately assess the risks of salinity and impacts of changed land use. Final report to the Corangamite Catchment Management Authority. CSIRO Land and Water, Adelaide.
5	<u>Dahlhaus P.G.</u> 2006. Golden Plains Shire Salinity Management Overlay: salinity occurrences and mapping. Background Report 1, prepared for EnPlan Australia Pty Ltd, Golden Plains Shire and the Corangamite Catchment Management Authority by Dahlhaus Environmental Geology Pty Ltd.

6	<u>Dahlhaus P.G.</u> 2006. Colac Otway Shire Salinity Management Overlay: salinity occurrences and mapping. Background Report 2, prepared for EnPlan Australia Pty Ltd, Colac Otway Shire and the Corangamite Catchment Management Authority by Dahlhaus Environmental Geology Pty Ltd.
7	<u>Dahlhaus P.G.</u> 2006. Corangamite Shire Salinity Management Overlay: salinity occurrences and mapping. Background Report 3, prepared for EnPlan Australia Pty Ltd, Corangamite Shire and the Corangamite Catchment Management Authority by Dahlhaus Environmental Geology Pty Ltd.
8	<u>Dahlhaus P.G.</u> 2006. Surf Coast Shire Salinity Management Overlay: salinity occurrences and mapping. Background Report 4, prepared for EnPlan Australia Pty Ltd, Surf Coast Shire and the Corangamite Catchment Management Authority by Dahlhaus Environmental Geology Pty Ltd.
9	Nicholson C., <u>Dahlhaus P.G.</u> , Anderson G., Kelliher C.K. & Stephens M. 2006. Corangamite Salinity Action Plan: 2005 – 2008. Corangamite Catchment Management Authority, Colac, Victoria.
10	<u>Dahlhaus P.G.</u> , Nicholson C., Anderson G., Shovelton J. & Stephens M. 2005a. Corangamite Salinity Action Plan: Regional overview and development considerations. Background Report 1, Corangamite Salinity Action Plan (2005 - 2008), Corangamite Catchment Management Authority, Colac Victoria.
11	<u>Dahlhaus P.G.</u> 2003a. Corangamite Salinity Action Plan: Process for the initial selection and validation of target areas for salinity management. Background Report 2, Corangamite Salinity Action Plan (2005 2008), Corangamite Catchment Management Authority, Colac Victoria.
12	<u>Dahlhaus P.G.</u> 2003b. Corangamite Salinity Action Plan: Salinity target areas: assessment, trends, resource condition targets, & management options. Background Report 3, Corangamite Salinity Action Plan (2005 – 2008), Corangamite Catchment Management Authority, Colac Victoria.
13	Kelliher C.K., Tucker K., <u>Dahlhaus P.G.</u> , Nicholson C. & Anderson G. 2006. Corangamite Salinity Action Plan: Investment Plan: benefit-cost analysis, cost-sharing & priority setting. Background Report 5 Corangamite Salinity Action Plan (2005 – 2008), Corangamite Catchment Management Authority, Colac Victoria.
14	<u>Dahlhaus P.G.</u> , Nicholson C., Anderson G. & Tucker K. 2003. Catchment Health Sites, Monitoring and Research. Background Report 6 Corangamite Salinity Action Plan (2005 – 2008), Corangamite Catchment Management Authority, 29p.
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21	<u>Dahlhaus P.G.</u> , Heislars D.S. & Dyson P.R., 2002. Groundwater Flow Systems. Consulting report CCMA 02/02, Dahlhaus Environmental Geology Pty Ltd, for the Corangamite Catchment Management Authority. 75p.

Appendix B: Research data

Additional details of the following datasets are included on the attached DVD:

- Digital Elevation Model
- LIDAR data
- Geophysical data
- Corangamite Land Resource Assessment
- Climate models (ANUCLIM)
- Ecological Vegetation Classes
- Land use (modified)
- Groundwater Flow Systems
- Depth to watertable models
- Mapped salinity