

# Publications 2014

## Refereed Journal Articles (published)

- Baldwin DS, Whitworth KL, Hockley CL (2014) Uptake of dissolved organic carbon by biofilms provides insights into the potential impact of loss of large woody debris on the function in of lowland rivers. *Freshwater Biology*. **59**, 692-702 DOI : 10.1111/fwb.12296
- Baumgartner LJ, Conallin J, Wooden I, Campbell B, Gree R, Robinson WA and Mallen-Cooper M (2014) Using flow guilds of freshwater fish in an adaptive management framework to simplify environmental flow delivery for semi-arid riverine systems. *Fish and Fisheries* **15**, 410-427. DOI: 10.1111/faf.12023 \*\*MDFRC Affiliated
- Beesley L, King AJ, Gawne B, Koehn JD, Price A, Nielsen DL, Amtstaetter F and Meredith S (2014) Optimising environmental watering of floodplain wetlands for fish. *Freshwater Biology*. **59**, 2024-2037. doi:10.1111/fwb.12404
- Beesley LS, Gwinn DC, Price A, King AJ, Gawne B, Koehn JD and Nielsen DL (2014) Juvenile fish response to wetland inundation: how antecedent conditions can inform environmental flow policies for native fish. *Journal of Applied Ecology* **51**, 1613-1621 DOI: 10.1111/1365-2664.12342
- Brown P and Gilligan D (2014) Optimising an integrated pest-management strategy for a spatially structured population of common carp (*Cyprinus carpio*) using meta-population modelling. *Marine and Freshwater Research*. **65**, 538-550 <http://dx.doi.org/10.1071/MF13117> \*\*MDFRC Affiliated
- Campbell CJ, Johns CV, Nielsen DL (2014) The value of plant functional groups in demonstrating and communicating vegetation responses to environmental flows. *Freshwater Biology*. **59**, 858-869 DOI : 10.1111/fwb.12309
- Dillon S, McEvoy R, Baldwin DS, Rees GN, Parsons Y and Southerton (2014) Characterisation of Adaptive Genetic Diversity in Environmentally Contrasted Populations of *Eucalyptus camaldulensis* Dehnh. (River Red Gum). *PLoS ONE* **9** (8):e103515. doi:10.1371/journal.pone.0103515
- Dwyer GK, Stoffels RJ, Pridmore PA (2014) Morphology, metabolism and behaviour: responses of three fishes with different lifestyles to acute hypoxia. *Freshwater Biology* **59** 819-831 . DOI : 10.1111/fwb.12306
- Ecological Management & Restoration (2014) Special Issue The Native Fish Strategy: Bringing native fish back Ecological Society of Australia and Wiley have published this supplement with financial support from the Murray-Darling Basin Authority, Department of Environment and Primary Industries (Vic) and NSW Department of Primary Industries (Fisheries). Vol 15, Issue Supplement s1. 1-83 - Project Summary Impacts of managed flows on fish spawning and recruitment. MDFRC Project

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- Evans TN, Watson G, Rees G and Seviour RJ (2014) Comparing activated sludge fungal community population diversity using denaturing gradient gel electrophoresis and terminal restriction fragment length polymorphism. *Antonie van Leeuwenhoek*. **105**: 559-569 DOI:10.1007/s10482-013-0108-x
- Hunt TL, Khageswor G, Brown P, Ingram BA, Jones PL, Laurenson LJB, Wallis AM(2014) Consequences of fish stocking density in a recreational fishery. *Canadian Journal of Fisheries and Aquatic Sciences* **71**: 1554-1560 \*\*MDFRC Affiliated
- Jardine TD, Hadwen WL, Hamilton SK, Hladyz S, Mitrovic SM, Kidd KA, Tsoi WY, Spears M, Westhorpe DP, Fry VM, Sheldon F and Bunn SE (2014) Understanding and overcoming baseline isotopic variability in running waters. *River Research and Applications* **30**: 155-165 DOI : 10.1002/rra.2630
- McCarthy B, Sukowski S, Whiterod N, Vilizzi L, Beesley L, King A (2014) Hypoxic Blackwater event severely impacts Murray crayfish (*Euastacus armatus*) populations in the Murray river, Australia. *Austral Ecology*. **39**, 491-500 DOI : 10.1111/aec.12109
- Mitrovic SM, Westhorpe DE, Kobayashi T, Baldwin DS, Ryna D and Hitchcock JN (2014) Short-term changes in zooplankton density and community structure in response to different sources of dissolved organic carbon in an unconstrained lowland river: evidence for food web support. *Journal of Plankton Research*. **36** (6): 1488-1500 DOI: 10.1093/plankt/fbu072
- Moran NP, Ganf GG, Wallace TA and Brookes JD (2014) Flow variability and longitudinal characteristics of organic carbon in the Lachlan River, Australia. *Marine and Freshwater Research*. **65**, 50-58
- Shackleton ME and Webb JM (2014) Two new species of *Calocoides* Neboiss 1984 (Trichoptera: Calocidae) from eastern Australia, with descriptions of the immature stages. *Austral Entomology*. **53**, 444-457. doi:10.1111/aen.12091 \*\*\* MDFRC Affiliation
- Shackleton ME, Webb JM, Lawler SH and Suter PJ (2014) A new genus and species of Calocidae (Trichoptera: Insecta) from south eastern Australia. *Memoirs of Museum Victoria* **72**: 25-30
- Stoffels RJ, Clarke R, Rehwinkel RA and McCarthy BJ (2014) Response of a floodplain fish community to river-floodplain connectivity: natural versus managed reconnection. *Canadian Journal of Fisheries and Aquatic Sciences*. **71**: 236-245 DOI: 10.1139/cjfas-2013-0042
- Vilizzi L, Thwaites LA and Smith BB (2014) Exploitation by common carp (*Cyprinus Carpio*) of a floodplain wetland of the lower river Murray under drought and flood conditions. *Transactions of the Royal Society of South Australia*
- Vilizzi L, Thwaites LA, Smith BB, Nicol JM and Madden CP (2014) Ecological effects of common carp (*Cyprinus carpio*) in a semi-arid floodplain wetland. *Marine and Freshwater Research*. **65** (9) , 802-817. <http://dx.doi.org/10.1071/MF13163>
- Whitworth KL, Baldwin DS and Kerr JL (2014) The effect of temperature on leaching and subsequent decomposition of dissolved carbon from inundated floodplain litter: implications for the generation of hypoxic Blackwater in lowland floodplain rivers. *Chemistry and Ecology* Vol. **30**, No. 6, 491-500. <http://dx.doi.org/10.1080/02757540.2014.885019>
- Whitworth KL, Silvester E and Baldwin DS (2014) Alkalinity capture during microbial sulfate reduction and implications for the acidification of inland aquatic ecosystems. *Geochimica et Cosmochimica Acta*. **130**. 113-125

## Book

MDFRC (2014) Hi my name is Murray: Murray Hardhead.

## Scientific, Technical and Consultancy Reports

- Baldwin DS (2014) Evaluating the River Murray system aggregated risks from environmental watering actions at TLM Icon Sites. Final Report prepared for the Murray-Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 30/2014, June, 38pp
- Baldwin D, Gawne B, Henderson M, Nielsen D, Ning N, Price A, Stoffels R, Watson G (2014) *Draft*. The Living Murray icon sites: a synthesis of monitoring outcomes from 2012–13 prepared for the Murray–Darling Basin Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 46/2014, November, 92pp
- Baldwin DS and Valo W (2014) Predicting the bioavailability of dissolved organic carbon. Final Report prepared for the Murray-Darling Basin Commission by The Murray-Darling Freshwater Research Centre, MDFRC Publication 15/2014, June, 54pp
- Brown P, Huntley S, Ellis I, Henderson M, and Lampard B (2015) *Draft*. Movement of fish eggs and larvae through the Hattah environmental pumps. Draft Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre and La Trobe University, MDFRC Publication XX/2015, January, 42pp
- Bogenhuber D (2014) Fletchers Creek monitoring – summary of results 2013–14. Final Report prepared by The Murray-Darling Freshwater Research Centre, MDFRC Publication 04/2014, March, 20pp
- Bogenhuber D (2014) State of the wetlands: Etiwanda, Bob Corbould and South Mildura. Final Report prepared for Mildura Rural City Council by The Murray-Darling Freshwater Research Centre, MDFRC Publication 10/2014 May, 29pp
- Bogenhuber D and Wood D (2014) The Darling Anabranch Adaptive Management Monitoring Program Final report 2013–14 Methods and appendices. Final report prepared for NSW Office of Environment and Heritage by The Murray-Darling Freshwater Research Centre, MDFRC Publication 11/2014, March, 50pp
- Bogenhuber D, Wood D, Pay T and Healy S (2014) The Darling Anabranch Adaptive Management Monitoring Program Final report 2014. Final report prepared in conjunction with NSW Office of Environment and Heritage by The Murray-Darling Freshwater Research Centre, MDFRC Publication 01/2014, March, 65 pp
- Brooks S, Wealands S (2014) LTIM Data Standard. Report prepared for the Commonwealth Environmental Water Office by The Murray-Darling Freshwater Research Centre, MDFRC Publication 29.3/2013 Revised Jan 2014, 29pp
- Busuttill R, Petrie R, Le Busque K (2014) Rotary Murray-Darling School of Freshwater Research Report. MDFRC Publication 23/2013, May, 17pp
- Campbell CJ and Bogenhuber D (2014) *Draft*. Pilot study investigating propagule dispersal through Hattah Lakes pumps. Draft Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 32/2014, June, 12pp
- Campbell C, Healy S and D’Santos P (2013) *Draft*. E-watering and wetland vegetation: Post-flooding response and comparison. Draft Report prepared in conjunction with NSW Office of Environment and Heritage by The Murray-Darling Freshwater Research Centre, MDFRC Publication 31/2013, June, 87pp
- Cook R, Hawking J (2014) Capturing the legacy of the Murray and Mitta Mitta biological monitoring program. Final Report prepared for the Murray Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 17/2014, June, 28pp
- Cottingham P, Brown P, Lyon J, Pettigrove V, Roberts J, Vietz G, Woodman A (2014) Mid Goulburn River flows study. Final Report; flow recommendations. Prepared for the Goulburn Brown Catchment Authority. December 2014. 123pp (Finalised March 2015)
- Cranston G A (2014) Frog Monitoring at Hattah Lakes. Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 05/2014, May, 17pp

- Cranston G A (2014) Frog monitoring at Mulcra Island. Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 06/2014, May, 13pp
- Davey C (2014) Mitta Mitta Biological Monitoring Program 2013–2014 Annual Report prepared for the Murray Darling Basin Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 45/2014, September, 88pp
- Ellis I and Kavanagh M (2014) A review of the biology and status of the endangered Murray hardyhead: streamlining recovery processes. Final Report prepared for the Murray-Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 19/2014, June, 66pp
- Ellis I, Huntley S, Lampard B (2014) Fish movement in response to hydrological management of Butlers Creek, Kings Billabong Nature Reserve VIC. Final Report prepared for the Murray-Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 34/2014, July 2014, 38pp
- Ellis I, Wood D, Huntley S (2014) Murray hardyhead recovery in Victoria: population monitoring in 2013–14. Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 31/2014, June, 29pp
- Freestone F (2014) Etiwanda wetlands vegetation surveys: spring 2014. Final Report prepared for Mildura Rural City Council by The Murray-Darling Freshwater Research Centre, MDFRC Publication 41/2014, November, 14pp
- Freestone F, Brown P, Henderson M, Campbell C, Ellis I, Lampard B and Cranston G (2014) Response of fish and vegetation communities to the operation of The Living Murray environmental regulators at Hattah Lakes. Final report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 26/2014, June, 86pp
- Gawne B, Hale J, Butcher R, Roots J, Brooks S, Cottingham P, Stewardson M, Everingham P (2014) Commonwealth Environmental Water Office Long Term Intervention Monitoring Project: Evaluation Plan. Final Report prepared for the Commonwealth Environmental Water Office by The Murray-Darling Freshwater Research Centre, MDFRC Publication 29/2014, January, 61pp
- Gawne B, Rixon S (2014) Murray-Darling Basin Environmental Water Knowledge and Research Project: Terms of References and Outlines for Phase 1 for Department of the Environment by The Murray-Darling Freshwater Research Centre, MDFRC Publication 47/2014, June, 30pp
- Hale J, Stoffels R, Butcher R, Shackleton M, Brooks S, Gawne B (2014) Commonwealth Environmental Water Office Long Term Intervention Monitoring Project – Standard Methods. Final Report prepared for the Commonwealth Environmental Water Office by The Murray-Darling Freshwater Research Centre, MDFRC Publication 29.2/2014, January, 182 pp
- Henderson M, Brown P, Lampard B and Pay T (2014) Transfer of ichthyoplankton in environmental water delivered to the Hattah Lakes through axial-flow pumps at Messengers Crossing. Final Summary report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 33/2014, June, 4 pp
- Henderson M, Freestone F, Vlamis T, Cranston G, Huntley S, Campbell C, Brown P (2014) The Living Murray Condition Monitoring at Lindsay, Mulcra and Wallpolla Islands 2013–14 Part A – Main report. Final report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 02/2014, July, 99 pp
- Henderson M, Freestone F, Vlamis T, Cranston G, Huntley S, Campbell C, Brown P (2014) The Living Murray Condition Monitoring at Hattah Lakes 2013–14 Part B – Supplementary material. Final report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 03/2014, June, 80pp

- Henderson M, Freestone F, Vlamis T, Cranston G, Huntley S, Campbell C, Brown P (2014) The Living Murray Condition Monitoring at Hattah Lakes 2013–14: Part A – Main Report. Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 03/2014, June, 96 pp
- Henderson M, Freestone F, Vlamis T, Cranston G, Huntley S, Campbell C, Brown P (2014) The Living Murray Condition Monitoring at Lindsay, Mulcra and Wallpolla Islands 2013–14 Part B – Supplementary material. Final report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 02/2014, June, 106 pp
- Henderson M, Ellis I, Huntley S and Stoffels R (2014) Response of fish to the commissioning operation of TLM environmental structures at Mulcra Island. Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, May, 22pp
- Huntley S, Ellis I, Wood D (2014) Monitoring of vegetation and habitat in selected Mallee wetlands in 2013-2014: potential habitat for the threatened Murray hardyhead Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 29/2014, June, 11pp
- Huntley S, Ellis I, Wood D (2014) Monitoring of vegetation and habitat in selected Mallee wetlands in 2013-2014: potential habitat for the threatened Murray hardyhead Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 29/2014, June, 11pp
- Linklater D and Ellis I (2013) Kings Billabong Acoustic Range Finding Experiment. Final Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 21/2013, June, 15pp
- McInerney P and Cook R (2014)*Draft*. River Murray Macroinvertebrate Monitoring Program: 2013/14 Annual Report. Draft Report prepared for the Murray-Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 27/2014, June, 25pp
- McInerney P, Gawne B and Davey C (2014) Effect of Willow (*Salix* spp.) Removal on Freshwater Ecosystem Dynamics: Spring 2013 and Autumn 2014 Monitoring. Final Report prepared for the North East Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 28/2014, June, 56 pp.
- MDFRC (2013) Condition of 'The Living Murray' icon sites: a synthesis of monitoring outcomes from 2011–12 prepared for the Murray–Darling Basin Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 23/2013, November, 75pp
- MDFRC (2014) Murray-Darling Basin Environmental Water Knowledge and Research Project: Research Collaboration Expressions of Interest – Terms of Reference. Report prepared for the Department of the Environment by The Murray-Darling Freshwater Research Centre, MDFRC Publication 49/2014, month, 29pp
- MDFRC and CSIRO (2014) The role of hydrological and riparian connectivity in maintaining biodiversity of river-floodplain ecosystems. Final Report prepared for Department of Environment's National Environmental Research Program by The Murray-Darling Freshwater Research Centre, MDFRC Publication 38/2014, April, 245pp
- Nielsen DL, Campbell CJ, Durant R, Littler R, Petrie R, Rees G and Watson GO (2014) Seed bank and wetland vegetation dynamics in response to environmental watering. Final Report prepared for the Murray-Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 16/2014, June 2014, 69pp
- Ning N, Linklater D, Baldwin D, Baumgartner L (2014) Assessing the risk of hypoxic blackwater generation at proposed SDL offset project sites on the lower River Murray floodplain. Final Report prepared for the Mallee CMA by The Murray-Darling Freshwater Research Centre, MDFRC Publication 37/2014, September, 38pp

- Paul W, Cook R, Shackleton M, Suter P, Hawking J (2013) Investigating the distribution and tolerances of macroinvertebrate taxa over 30 years in the River Murray MD2258 Final Report prepared for the Murray-Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 13/2013, June, 83pp
- Rees GN, Nielsen DL, Durant R, Petrie R (2014) Wetland Carbon Dynamics Monitoring Program 2013/14 Final Report prepared for the Murray Local Land Services by The Murray-Darling Freshwater Research Centre, MDFRC Publication 44/2014, Dec, 30pp
- Brooks S and Wealands S (2014) Commonwealth Environmental Water Office Long Term Intervention Monitoring Project: Data Standard. Report prepared for the Commonwealth Environmental Water Office by The Murray-Darling Freshwater Research Centre, MDFRC Publication 29.3/2013 Revised June 2014, 29pp
- Shackleton M, Rees G, Watson G, Davey C (2014) Increasing the efficiency and cost effectiveness of the MDBA-funded Murray and Mitta river biological monitoring programs through the development of molecular tools. Draft Report prepared for the Murray Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 25/2014, June, 36pp
- Stewardson MJ, Jones M, Koster WM, Rees DN, Skinner DS, Thompson RM, Vietz GJ and Webb JA (2013) Monitoring the ecosystem responses to the delivery of environmental water in the lower Goulburn River and Broken Creek in 2012-2013. The University of Melbourne for the Commonwealth Environmental Water Office. April 2014. 245pp
- Stoffels R and Weatherman K (2014) Floodplain fish communities of the Barmah and Killawarra Forests: pygmy perch status; knowledge needs; management suggestions. Final Report prepared for the Goulburn-Broken Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 21/2014, May, 37 pp
- Stoffels R and Weatherman K (2014) The decommissioning of Lake Mokoan: Effects on water quality and fishes of the Broken River. Final Report prepared for the Goulburn-Broken Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 20/2014, June, 16pp
- The Murray-Darling Freshwater Research Centre (2014) Murray-Darling Basin Environmental Water Knowledge and Research Project: Operations Strategy. Final Report prepared for the Department of the Environment by The Murray-Darling Freshwater Research Centre, MDFRC Publication 22/2014, June, 36pp
- Wood D, Ellis I (2014) *Draft*. Use of slackwater environments by larval and juvenile fish in Chalka Creek during an environmental watering event (Winter 2014). Draft Report prepared for the Mallee Catchment Management Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 36/2014, August, 9pp

## **Summer Cadetship Reports**

- Anderson J (2014) Using classical and DNA techniques to explore Elmidae (Order: Coleoptera) diversity at Alpine and Mount Buffalo National Parks. Final Report prepared for a Summer Cadetship Project, The Murray-Darling Freshwater Research Centre, MDFRC Publication 06/2014, February, 23pp. Not for distribution for internal use only
- Littler R (2014) The Distribution of seeds down a sediment profile. Final Report prepared for a Summer Cadetship Project, The Murray-Darling Freshwater Research Centre, MDFRC Publication 05/2014, February, 11pp
- Oliver K (2014) An assessment of techniques to hatch and identify zooplankton dormant eggs. Final Report prepared for a Summer Cadetship Project, The Murray-Darling Freshwater Research Centre, MDFRC Publication 07/2014, February, 21pp. Not for distribution for internal use only
- Valo W J and Baldwin D (2014) Exploring the absorbance and fluorometric signals of bioavailable dissolved organic carbon. Final Report prepared for a Summer Cadetship Project, The Murray-Darling Freshwater Research Centre, MDFRC Publication 08/2014, February, 12pp. Not for distribution for internal use only

## Conference / Poster Presentations

- Allen-Ankins S, Stoffels R and Pridmore P (2014) Using a mechanistic approach to understand fish distributions along an altitudinal gradient: testing for thermal adaptation. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Baldwin D, Whitworth K & Keogh A (2014) Dissolved organic carbon dynamics in a large lowland river. Biogeomon, Bayreuth Germany, 14 July
- Baldwin D, Silvester E, Whitworth K, Hall K & Rees G (2014) Sulfidic sediments in inland wetlands. Poster Presentation Biogeomon, Bayreuth Germany, 14 July
- Baldwin D (2014) Practical demonstration of sampling for chemical analysis. Goulburn Murray Landcare – Floodplain Ecology Course. Shepparton Vic. 16 October
- Baumgartner L, Thorncraft G, Singhanouvong D, Phonekhampheng O and Marsden T (2014) A lesson being learnt right now; water infrastructure development and fish passage in the Mekong. Presentation at the Expert Meeting on Mekong Cooperation on Fisheries, Aquatic Resources and Wetlands: 15 years lesson learnt Phnom Penh, Cambodia. 12-14 November 2014
- Bogenhuber D, Linklater D and Campbell C (2014) Understanding vegetation: evidence that more natural hydrological history results in more resilient plant communities. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Bond N, Baldwin D, Butler G, Crook D, Hohnberg D, Humphries P, Kennard M, Kopf K, Koehn J, MCCasker N, Morrongiello, Nielsen D, Reich P, Stoffels R, Thomson J and Yen J (2014) Are native fish populations in the Murray River energy limited? Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Brown P (2014) Vagility and vulnerability: Dispersal of adult common carp (*Cyprinus carpio*, L.) around the Murray-Darling River Basin, Australia. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Brown P and Sheahan N (2014) Fish monitoring of pumped inflows during environmental watering at the Hattah Lakes: preliminary findings. Flood Forum Victoria. 13 - 14 November
- Campbell C and Nielsen D (2014) Hydrological connectivity and the composition and floodplain communities in the southern Murray-Darling Basin. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Campbell C and Nielsen D (2014) Aquatic and floodplain vegetation: optimising the potential for recovery. Flood Forum Victoria. 13 - 14 November
- Durant R, Nielsen D, Petrie R, Campbell C, Rees G, Watson G and Littler R (2014) Estimating the size and biodiversity of a seed bank in a wetland complex. 10th Australian Plant Conservation Conference. Hobart Tasmania. 11-14 November
- Ellis E and Wood D (2014) Assessing fish movement in response to environmental water management, incorporating acoustic tracking techniques. Flood Forum Victoria. 13 - 14 November
- Freestone F, Henderson M, Brown P, Campbell C, Cranston G (2014) The effect of managed environmental watering on floodplain understorey vegetation and trees at Hattah Lakes. Flood Forum Victoria. 13 - 14 November.
- Gawne B (2014) Adaptive Management. Australian Environmental Watering: Successes, Improvements and Agenda to 2019 Symposium. Canberra ACT. 3 June
- Gawne B (2014) Monitoring and evaluating the outcomes of Commonwealth environmental water. The influence of single flow pulses on river ecosystems. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Gawne B, Baumgartner L, Roots J and Burns I (2014) Turning science into answers: The complex dimensions of using science to evaluate policy. International River Symposium, Canberra ACT. 15 September
- Gawne B, Kavanagh M and Busuttill R (2014) Knowledge Brokers Unique individuals or a flawed concept? Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Gawne B, Kingsford R, Watts R, Thompson R, Kind A, Wassens S, Wilson J, Price A, Beesley L, Grace M, Keller Kopf R, McGuinness H, Sims N and Koehn J (2014) The influence of single flow pulses on river ecosystems. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Hohnberg DB, Gawne B, Little and Raisin G (2014) Making sense of all monitoring. Why the synthesis of monitoring information is a key step in adaptive management and how it is being done for the Living Murray initiative. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July

- Huntley S, Ellis I and Lampard B (2014) Translocation of Murray hardyhead (*Craterocephalus Fluvialtilis*) from captive bred populations to aid in species recovery. Poster Presentation at the Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Klein A, Baldwin D & Silvester E (2014) Interactions of the cyanobacteria toxin microcystin-LR with iron (oxy) hydroxides. Poster Presentation Goldschmidt, California USA, 8-13 June
- Mom S, Stoffels R, Weatherman K and Pridmore P (2014) Resistance of two fishes with contrasting lifestyles to hypoxia: Links between metabolic and behavioural traits. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Nielsen D (2014) Egg and seed bank responses to wetting and drying. Goulburn Murray Landcare – Floodplain Ecology Course. Shepparton Vic. 16 October
- Nielsen D (2014) Salinity and Climate Change. Goulburn Murray Landcare – Floodplain Ecology Course. Shepparton Vic. 16 October
- Ning N, Petrie R, Gawne B, Nielsen D and Rees G (2014) Effects of hypoxic blackwater events on microinvertebrate and aquatic plant communities emerging from wetland sediment. The influence of single flow pulses on river ecosystems. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Rees G (2014) Environmental Flows and ecogenomics: delivers the goods but can muddy the waters. Australian Society for Microbiology. Conference, Melbourne Victoria. 8 July
- Reid C (2014) Integrated Ecosystem Condition Assessment. Poster Presentation at the Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Rixon S, Gawne B and Reid C (2014) An introduction to the Murray-Darling Basin Environmental Water Knowledge and Research Project. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Robinson W and Brown P (2014) Fish and pools: Sampling 101 for ecologists. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Rohlf AM, Mitrovic S, Williams S, Rees G and Lim R (2014) Functional responses to environmental flow: linking benthic metabolism and dissolved organic carbon in the Snowy River. The influence of single flow pulses on river ecosystems. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July
- Shackleton M (2014) DNA barcoding reveals hidden diversity among Australia's Trichoptera (Caddisflies). Annual conference of the Australian Entomological Society, 28 Sept – 1 Oct 2014, the Shine Dome, Canberra.
- Todd C, Koehn J, Conal;lin A, Stuart I, Thwaites L, Ye Q, Zampatti B, Brown P and Gilligan D (2014) Modelling recruitment dynamics of carp under different flow scenarios. Joint Australian Society for Fish Biology and the Australian Society for Limnology Congress 2014. Darwin NT. 30 July

## Theses

- Mueller S (2014) The role of nutrients in cyanobacterial blooms in a shallow reservoir. Doctor of Philosophy thesis, School of the Environment, University of Technology, Sydney, April 2014. 190pp. (Supervisors Simon Mitrovic, University of Technology Sydney and Darren Baldwin, MDFRC)

## Seminar Presentations

- Allen-Ankins S (2014) Physiological mechanisms underlying fish distributions along altitudinal gradients: testing for thermal adaptation. Albury-Wodonga Diversity Ecology and Evolution Group @ La Trobe (BEEG@L) Seminar Series. Wodonga Victoria. 3 June
- Anderson J (2014) Using classical and DNA techniques to identify macroinvertebrates at Bogong High Plains. [Supervisors: Gavin Rees, Michael Shackleton, Rob Cook, Paul McInerney and Chris Davey]. La Trobe University, Wodonga Victoria. 28 February
- Baumgartner L (2014) Increasing fisheries productivity in floodplain wetlands of the Lower Mekong Basin. La Trobe University Out of the Bag XXI Research Initiatives in the Faculty of Business Economics & Law. La Trobe University Wodonga. 23 July
- Baldwin DS (2014) Predicting the bioavailability of DOC using the optical properties of water. Albury-Wodonga Diversity Ecology and Evolution Group @ La Trobe (BEEG@L) Seminar Series. Wodonga Victoria. 20 May

- Brown B (2014) Fish monitoring of pumped inflows during the environmental watering at the Hattah Lakes: preliminary finding. MDBA Seminar Series, Canberra ACT. 15 October
- Brown P (2014) Catchment scale carp control – what works, what doesn't and why. MDFRC Stakeholder and Community Seminar. La Trobe University, Mildura Victoria. 21 February
- Dwyer G (2014) The nutritional ecology of two-spined blackfish (*Gadopsis bispinosus*) and the river blackfish (*G. marmoratus*). Albury-Wodonga Diversity Ecology and Evolution Group @ La Trobe (BEEG@L) Seminar Series. Wodonga Victoria. 3 June
- Ellis I (2014) Conserving the threatened Murray hardyhead. Presentation to Mallee Catchment Management Authority, Yelta Landcare and Friends of Merbein Common for Wetlands Day. Merbein Common Victoria. 15 February
- Ellis I (2014) Fish movement and regulated floodplain wetlands. Presentation to the Mallee CMA Rivers Technical Advisory Committee meeting, Mildura Victoria. 23 January
- Halsey M & Kavanagh M (2014) The Murray-Darling Freshwater Research Centre. Presentation to La Trobe University Research Forum: Achievements and Opportunities, Securing Food, Water and the Environment. La Trobe University, Bundoora Victoria. 28 March
- King C (2014) a monitoring programme to determine the watering requirements of floodplain populations of the southern pygmy perch (Supervisors: Rick Stoffels and Kyle Wheatherman) Summer Industry Cadetship Final Seminar. Wodonga Victoria. 28 February
- Littler R (2014) Characterisations of aquatic plant seeds. A Summer Industry Student Seminar. [Supervisors: Daryl Nielsen, Rebecca Durant, Rochelle Petrie and Cherie Campbell] La Trobe University, Wodonga Victoria. 28 February
- Le Busque K (2014) Water in the Murray–Darling Basin. Cool Relief Project, Albury Wodonga Community College, 16 Oct 2014
- Le Busque K (2014) Past student presentation. Seminar presentation at La Trobe University Open Night, Wodonga Vic. 29 August
- McInerney P (2014) Environmental DNA as a tool for determining effects of *Salix* on small streams. Albury-Wodonga Biodiversity Ecology and Evolution Group @ La Trobe (BEEG@L) Seminar Series. Wodonga Victoria. 6 May
- Mc Pherson J (2014) Development of fish passage technology in the Lower Mekong and Murray-Darling Basins. Murray Darling Basin Seminar Series. Wodonga Victoria. 3 December
- Nielsen D (2014) Seedbank dynamics in ephemeral wetlands. Albury-Wodonga Diversity Ecology and Evolution Group @ La Trobe (BEEG@L) Seminar Series. Wodonga Victoria. 17 June
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- Oliver K (2014) Identification of zooplankton resting eggs. [Supervisors: Daryl Nielsen, Rochelle Petrie and Nathan Ning]. La Trobe University, Wodonga Victoria. 28 February
- Pearl J (2014) A Summer Industry Student Seminar. [Supervisors: Ian Ellis] La Trobe University, Mildura Victoria. 21 February
- Pearl J (2014) Pavlov's Carp: training pest fish to accumulate to facilitate control opportunities (Supervisor Ian Ellis) Summer Industry Cadetship Final Seminar Mildura Victoria 21 February
- Rees G (2014) Unseen things in wetlands. Presentation to Rutherglen Landcare Annual General Meeting. Rutherglen Victoria. 5 April
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- Rixon S (2014) Murray-Darling Environmental Water Knowledge and Research Project. Presentation to the Murray Darling Association Region Two Meeting. Deniliquin NSW. 21 March
- Stoffels R (2014) The role of hydrological and riparian connectivity in maintaining biodiversity of river-floodplain landscapes. Murray Darling Basin Seminar Series. 3 September
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### **Fact Sheets | Discussion Papers | Information Sheets**

MDFRC (2014) Ripples – MDFRC e- Internal Newsletter. February

MDFRC (2014) Limnosphere – MDFRC e-newslettter. February

MDFRC (2014) Briefing Note: Shadow Minister for Higher Education Mr Steve Herbert MP. Visit to MDFRC Laboratory, Wodonga Victoria. 14 February.

MDFRC (2014) Ripples – MDFRC e- Internal Newsletter. March

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MDFRC (2014) Ripples – MDFRC e- Internal Newsletter. May/June

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MDFRC (2014) DNA barcoding: aquatic macroinvertebrates of the Mitta Mitta and Murray Rivers Fact Sheet. July

MDFRC (2014) Murray-Darling Basin Environmental Water Knowledge and Research Project (MDB EWKR) Fact Sheet June

MDFRC (2014) Electrofishing for research Fact Sheet. August.

MDFRC (2014) Awash with food webs Fact Sheet. July

MDFRC (2014) Itsy Bitsy Bugs Fact Sheet. July.

MDFRC (2014) Limnosphere – MDFRC stakeholder e-newsletter. September

MDFRC (2014) Ripples – MDFRC e- Internal Newsletter. November