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10. References

10 References

ANCOLD (2012). Guidelines on Tailings Dam Planning, Design, Construction, Operation and Closure. Report by the Australian National Committee on Large Dams Incorporated.

ANZECC & ARMCANZ (2000). Australia and New Zealand Guidelines for Fresh and Marine Water Air Quality. Australian and New Zealand Environment & Conservation Council and Agriculture & Resource Management Council of Australia and New Zealand, October 2000.

Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors) (2016) *Australian Rainfall and Runoff (ARR) – A Guide to Flood Estimation*. Commonwealth of Australia (Geoscience Australia).

B3 Mining Services, (2017). Proposal for Spontaneous Combustion Hazard Assessment of McArthur River Mine Waste Rock. Report prepared for McArthur River Mining. Brisbane: B3 Mining Services, 2017, pp.1-4. (Supplementary EIS Appendix X – Spontaneous Combustion Forward Work Program)

Begnaze (2011). Environmental Impact Assessment McArthur River Mine Phase 3 Development Project. Report on Archaeology and Historic Heritage. Prepared for MET Serve On behalf of Xstrata Zinc.

Chapman, P. M. (1990). The Sediment Quality Triad approach to determining pollution-induced degradation. *Science of the Total Environment* 98/98: 815-825.

Clarke, K. R. & Ainsworth, M. (1993). A method for linking multivariate community structure to environmental variables. *Marine Ecology Progress* Series 92: 205-219.

Clarke, K. R. (1993). Non-parametric multivariate analyses of changes in community structure. Australian Journal of Ecology 18: 117–143.

Creative Territory, (2017). Supplementary Consultation Report. Report prepared for McArthur River Mining. Brisbane: 2017, pp.1-66 (**Appendix Q – Stakeholder Consultation Report**)

DIIS (2016). Leading Practice Sustainable Development Program for the Mining Industry – Preventing Acid and Metalliferous Drainage Handbook. Department of Industry, Innovation and Science (DIIS), Canberra, Australia.

Eamus, D., R. Froend, R. Loomes, G. Hose and B. Murray (2006). A functional methodology for determining the groundwater regime needed to maintain the health of groundwater-dependent vegetation. *Australian Journal of Botany* 54, 97-114.

Earth Systems, 2017. Proposal to Estimate the Acidity Load Generated and Stored within Tailings at McArthur River Mine. Report prepared for MRM, 8 August 2017. (**Supplementary EIS Appendix AA – TSF Load Assessment Forward Work Program**)

ERIAS Group (2017). Independent Monitor Environmental Performance annual Report 2016. 01164D_1_v2. Hawthorn: ERIAS Group, pp.5-512.

Evans, K., Martin, P., Moliere, D., Saynor, M., Prendergast, J. and Erskine, W. (2004). Erosion risk assessment of the Jabiluka mine site, Northern Territory, Australia. *Hydrologic Engineering*, 1(9), pp.512-522.

Fontaine, D. and Violeta, M. (2015). Tailings mobilization estimates for dam breach studies. *Proceedings Tailings and Mine Waste* 2015, 1(1), pp.1-14.

FSANZ (2009). Food Standards Australia New Zealand. Standard 1.4.1. Contaminants and natural toxicants, issue 103. Food Standards Australia New Zealand, Canberra.

FSANZ (2017). Australia New Zealand Food Standards Code – Schedule 19 – Maximum levels of contaminants and natural toxicants. (ONLINE) Available at: https://www.legislation.gov.au/Series/F2015L00454 (Accessed July 2017).

FSANZ (Food Standards Australia New Zealand) (2009). User guides to the new food standards code. Available from: http://www.foodstandards.gov.au/foodstandards/userguides/.

Garling, R. and Prentice, D. (2010). Hydraulic Mining – A Proven and cost effective way to Re-Mine Tailings for Plant Feed and Sustainable Relocation. Cobar Mining Seminar. Available from: http://www.ausimm.com.au/content/docs/cobar_1540_ross_garling_hydraulic_mining.pdf.

Georges, A., Limpus, C.J. and Parmenter, C.J. (1987). Natural History of the Chelonia. In: D. Walton and G. Dyne, eds, Fauna of Australia. CSIRO Publishing, Clayton.

Georges, A., Limpus, C.J. and Parmenter, C.J. (1987). Natural History of the Chelonia. In: D. Walton and G. Dyne, eds, Fauna of Australia. CSIRO Publishing, Clayton.

GHD, (2015). McArthur River Mine, TSF – Life of Mine Plan – Options Assessment, ref:32/17476/63675, rev 0 September, 2015.

GHD, (2017). Addendum to GHD Report – Tailings Deposition Open Pit Consolidation Modelling and Deposition Concept – Sensitivity Analysis. Report prepared for McArthur River Mining. Brisbane: 2017, pp.1-17. (Supplementary EIS Appendix P – Revised Tailings Consolidation Report)

GHD, (2017). Tailings Storage Facility Design Development – Life of Mine Plan. Report prepared for McArthur River Mining. Revision 2. Brisbane: GHD, 2017, pp.1-1242. (**Supplementary Appendix I – Updated Tailing Storage Facility Life of Mine Plan**)

Gleisner, M. (2005). Quantification of mineral weathering rates in sulfidic mine tailings under water-saturated conditions. No.321. Sweden: Department of Geology and Geochemistry, Stockholm University, pp.1-29.

Golder Associates (2011). McArthur River Mine Hydrogeochemical Investigation of the Tailings Storage Facility. June, 2011.

Gretton, P. (2013) On input-output tables: uses and abuses, Staff Research Note, Productivity Commission, Canberra (page 20)

Groom, P.K., R.H. Froend, E.M. Mattiske and B. Koch (2000). Myrtaceous shrub species respond to long-term decreasing groundwater levels on the Gnagara Groundwater Mound, northern Swan Coastal Plain. Journal of the Royal Society of Western Australia 83, 75-82.

Heller, V., Hager, W. and Hans-Erwin, I. (2009). Landslide generated impulse waves in reservoirs. Basics and computation. Zurich: Federal Office of Energy, Switzerland, pp.1-172.

Humphrey, C. L.; Faith, D. P. & Dostine, P. L. (1995). Baseline requirements for assessment of mining impact using biological monitoring. *Australian Journal of Ecology* 20: 150–166.

I-Corp International Inc., (2017). Geomembranes for McArthur River Mine Covers. Report prepared for McArthur River Mining. Florida: I-Corp International Inc., pp.1-37. (**Supplementary Appendix H – Geosynthetic Liner Design Details**)

Indo-Pacific Environmental (2017c) Report on the Aquatic Fauna of the McArthur River, Northern Territory, Early Dry Season 2017.

Jones, D. R.; Humphrey, C. L.; Iles, M. & van Dam, R. (2008). Deriving surface water quality closure criteria – an Australian uranium mine case study. Proceedings of the 10th International Mine Water Association (IMWA) Congress. Karlovy Vary, Czech Republic. 614-624pp.

KCB, 2016. MRM Groundwater Report: Monitoring Report 2014-2016. Report prepared for MRM, 9 September 2016.

Kirby, G., Morgan, D. and Thorburn, D. (2009). Fitzroy River Barrage Fishway. AECOM Australia Pty Ltd, Perth.

Klohn Crippen Berg, (2015). McArthur River Mines EIS Support Waste Rock Geochemistry. Report prepared for McArthur River Mining. Brisbane: Klohn Crippen Berg, pp.1-668.

Klohn Crippen Berger (2017). 2017 EIS Supplementary Draft for Discussion. Report to McArthur River Mining.

Kriwet, J. and Kussius, K. (2001). Paleobiology and paleobiogeography of sclerorhynchid sawfishes (Chondrichthyes Batomorphii). Revista Española de Paleontología, 35-46.

Legler, J.M. and Georges, A. (1987). Family Chelidae. In: D. Walton and G. Dyne, eds, *Fauna of Australia*. CSIRO Publishing, Clayton.

Lepla, K. (2003). Status and Habitat Use of Snake River White Sturgeon Associated with the Hells Canyon Complex. Idaho Power Company, Idaho.

Marriner, B.A., Baki, A.B.M., Zhu, D.Z., Thiem, J.D., Cooke, S.J. and Katopodis, C. (2014). Field and numerical assessment of turning pool hydraulics in a vertical slot fishway. **Ecological Engineering 63: 88-101**

McAlpine, K. W. & Humphrey, C. L. (2001). An overview of the new guidelines for Australian and New Zealand aquatic ecosystems. *Australasian Journal of Ecotoxicology* 7: 43-52.

McCullough, C. D. & Pearce, J. I. (2014). What do elevated background contaminant concentrations mean for AMD risk assessment and management in Western Australia? 8th Australian Workshop on Acid and Metalliferous Drainage. Adelaide, Australia. 28 April - 2 May 2014, 147-158pp.

McCullough, C. D. & Schultze, M. (2015). Riverine flow-through of mine pit lakes: improving both mine pit lake and river water quality values? Proceedings of the joint International Conference on Acid Rock Drainage ICARD/International Mine Water Association (IMWA) Congress. Santiago, Chile. 1903 -1912pp.

McCullough, C. D. (2009). Aquatic toxicity assessment across multiple scales. In, Lake Pollution Research Progress, Chap. 5. Miranda, F. R. & Bernard, L. M. Nova Science Publishers Inc., Hauppauge, New York, USA, 133-155pp.

McCullough, C. D., Marchand, G. and Unseld, J. (2013). Mine Closure of Pit Lakes as Terminal Sinks: Best Available Practice When Options are Limited. *Mine Water Environ*, 1(32), pp.302-313.

MEND (1989). Subaqueous disposal of reactive mine wastes: an overview. MEND Project 2.11.1a Canadian Mine Environment Neutral Drainage (MEND). [online] MEND, pp.1-146. Available at: http://mend-nedem.org/wp-content/uploads/2111A-A.pdf [Accessed 12 Nov. 2017].

Mine Lakes Consulting, (2017). Pit Lake Closure with Strategic Riverine Connectivity. Report prepared for McArthur River Mining. Brisbane: Mine Lakes Consulting, pp.1-31. (Supplementary EIS Appendix D – Pit Lake Closure with Strategic Riverine Connectivity)

Mine Lakes Consulting, (2018). A Framework for Development of Site-specific Guideline Values for McArthur River Mine. Report prepared for McArthur River Mining. Brisbane: Mine Lakes Consulting, 2018, pp.1-22. (**Supplementary EIS Appendix W – Ecotoxicology Forward Work Program**)

Moses, C. and Herman, J. (1991). Pyrite oxidation at circumneutral pH. *Geochimica et Cosmochimica Acta*, 55(2), pp.471-482.

NT EPA (2013). Guidelines on Mixing Zones. Version 1.2. [online] Northern Territory: Northern Territory Environmental Protection Authority, pp.3-10. Available at: https://ntepa.nt.gov.au/__data/assets/pdf_file/0011/284681/guidelines_mixing_zones.pdf [Accessed 24 Sep. 2017].

O'Kane Consultants, (2016). NOEF Cover System and Landform Design in Support of EIS Submission. Report prepared for McArthur River Mining. Brisbane: O'Kane Consultants, pp.1-388.

O'Kane Consultants, (2017). NOEF Bituminous Geomembrane Cover System – Constructability Test Pads. Report prepared for McArthur River Mining. Brisbane: O'Kane Consultants, pp.1-29. (Supplementary EIS Appendix Y – Trial Pad Design Work)

O'Kane Consultants, (2017). NOEF Geosynthetic Liner Cover System – Preliminary Soil Plant Atmosphere Modelling and Analysis. Report prepared for McArthur River Mining. Brisbane: O'Kane Consultants, pp.1-37. (Supplementary EIS Appendix G – GSL Cover Design Report)

O'Kane Consultants, (2018). NOEF Cover System Trial Design. Report prepared for McArthur River Mining. Brisbane: O'Kane Consultants, pp.1-37. (**Supplementary EIS Appendix AB – NOEF Cover System Trail Design**)

Pando. (2017). Updated Preliminary Geotechnical Assessment NOEF). Report prepared for McArthur River Mining. Brisbane: Pand, pp. 1-268. (Supplementary EIS Appendix E – Updated Geotechnical Report)

Read, M.A., Grigg, G.C., Irwin, S.R., Shanahan, D. and Franklin, C.E. (2007). Determining the Movement Patterns of Adult Estuarine Crocodiles using Satellite Telemetry. Queensland Parks and Wildlife Service.

Shafroth, P.B., J.C. Stromberg and D.T. Patten (2000). Woody riparian vegetation response to different alluvial water table regimes. North American Naturalist 60, 66-76.

Simpson, S. and Batley, G. (2007). Predicting metal toxicity in sediments: A critique of current approaches. Integrated Environmental Assessment and Management, 3(1), pp.18-31.

Taylor, B.; Flecker, A. S. & O., H. R. (2006). Loss of a harvested fish species disrupts carbon flow in a diverse tropical river. Science 313: 833-836.

Thiem, J.D., Binder, T.R., Dawson, J.W., Dumont, P., Hatin, D., Katopodis, C., Zhu, D.Z. and Cooke, S.J. (2011). Behaviour and passage success of upriver-migrating lake sturgeon Acipenser fulvescens in a vertical slot fishway on the Richelieu River, Quebec, Canada. *Endangered Species Research* 15: 1-11.

Tropical Water Solutions, (2016). McArthur River open pit: 3D Hydrodynamic modelling Run 04-20 year assessment. Report prepared for McArthur River Mining. Darwin: Tropical Water Solutions, pp.1-22.

Tropical Water Solutions, (2017). McArthur River Mine Open Cut: 3D Hydrodynamic Modelling for a Mine Pit Lake System. Report prepared for McArthur River Mining. Darwin: Tropical Water Solutions, 2017, pp.1-42. (Supplementary EIS Appendix O – Revised Limnology Study)

Underwood, A. J. (1991). Beyond BACI: Experimental designs for detecting human environmental impacts on temporal variations in natural populations. *Australian Journal of Marine and Freshwater Research* 42: 569–587.

Underwood, A. J. (1992). Beyond BACI: The detection of environmental impacts on populations in the real, but variable, world. *Journal of Experimental Marine Biology and Ecology* 161: 145–178.

Van der Oost, R., Beyer, J. and Vermeulen, N.P.E. (2003). Fish bioaccumulation and biomarkers in environmental risk assessment: a review. *Environmental Toxicology and Pharmacology* 13: 57-149.

Warne, M. S. J.; Batley, G. E.; Braga, O.; Chapman, J. C.; Fox, D. R.; Hickey, C. W.; Stauber, J. L. & Van Dam, R. (2014). Revisions to the derivation of the Australian and New Zealand guidelines for toxicants in fresh and marine waters. *Environmental Science and Pollution Research* 21: 51-60.

Warne, M.; Batley, G. E.; Van Dam, R. A.; Chapman, J. C.; Fox, D. R.; Hickey, C. W. & Stauber, J. L. (2015). Revised method for deriving Australian and New Zealand water quality guideline values for toxicants. Department of Science, Information Technology and Innovation, Canberra, Australia. 45p.

Whitty, J. M., Keleher, J., Ebner, B. C., Gleiss, A. C., Simpfendorfer, C. A., and Morgan, D. L. (2017). Habitat use of a Critically Endangered elasmobranch, the largetooth sawfish Pristis pristis, in an intermittently flowing riverine nursery. *Endangered Species Research* 34: 211-227.

WRM Water and Environment (2017). Surface water impact assessment for the McArthur River Mine Overburden Management Project Environmental Impact Statement. Report prepared for MET Serve on behalf of McArthur River Mining. Brisbane: WRM Water and Environment, pp.1-443.

WRM Water and Environment (2017). Updated Base Case Waterways model impact assessment for the MRM OMP EIS. Report to McArthur River Mining.

WRM Water and Environment, (2018). Updated water balance and waterways modelling for the MRM OMP EIS. Report prepared for McArthur River Mining. Brisbane: WRM Water and Environment, 2018, pp.1-137. (Supplementary EIS Appendix N – Updated water Balance and Waterways Modelling Report)

Xu, H. (2006). Modification of normalised difference water index (NDWI) to enhance open water features in remotely sensed imagery. International journal of remote sensing 27: 3025-3033.

Zanter, K. (2016). Landsat 8 (L8) Data Users Handbook; Version 2; 2016. LSDS-1574. Department of the Interior U.S. Geological Survey.