

8 References

- Aboul-Kassim TA. and Simoneit BRT 1995. Aliphatic and aromatic hydrocarbons in particulate fallout of Alexandria, Egypt: sources and implications. *Env. Sci. and Tech.* 29: 2473-2483.
- Australian Nature Conservation Agency 1996. *The Introduced Northern Pacific Seastar, Asterias Amurensis (Lutken), in Tasmania.*
- Australian Bureau of Statistics 1995. *Tasmanian Yearbook 1996.*
- Australian Newsprint Mills Ltd 1995. *Boyer Mill Environmental Management Plan, June 1995*, Australian Newsprint Mills Ltd, Hobart.
- Australian Newsprint Mills Ltd 1996. Effluent monitoring data for ANM-Boyer. Submitted to Division of Environment and Planning/DELM, Hobart.
- ANZECC 1992. *Australian water quality guidelines for fresh and marine waters.* Australian and New Zealand Environment and Conservation Council.
- Australian Water Resources Council 1984. *Australian Water Quality Criteria for organic compounds - Technical Paper No. 82.* Australian Government Publishing Service, Canberra.
- Bagg J, Smith JD and Maher WA 1981. Distribution of polycyclic aromatic hydrocarbons in sediments from estuaries of south-eastern Australia. *Austr. J. of Mar. and Freshwater Res.* 32: 65-73.
- Blacklow S 1995. *A microbiological quality assessment of stormwater in the Hobart Rivulet.* BSc (Hons.) Thesis, Department of Geography and Environmental Studies, University of Tasmania, Hobart.
- Bloom H 1975. *Heavy metals in the Derwent Estuary.* Department of Chemistry, University of Tasmania, 121 p.
- Bloom H and Ayling GM 1977. Heavy metals in the Derwent Estuary. *Env. Geology* 2: 3-22.
- Bomboi MT and Hernandez A 1991. Hydrocarbons in urban runoff: their contribution to the wastewaters. *Water Research* 25: 557-565.
- Brown G and Maher W 1992. The occurrence, distribution and sources of polycyclic aromatic hydrocarbons in the sediments of the Georges River Estuary, Australia. *Organic Geochemistry* 18: 657-668.
- Bureau of Meteorology 1989. *The Climate of Australia.*
- Bureau of Meteorology, Hobart 1997. Precipitation data and maps (provided by M. Reilly).
- Burns KA and Smith JL 1977. Distribution of petroleum hydrocarbons in Westernport Bay (Australia): Results of chronic low level inputs. In: *Fates and Effects of Petroleum Hydrocarbons in Marine Ecosystems.* pp. 442-453, Pergamon Press, Oxford.
- Burns KA and Smith JL 1982. Hydrocarbons in Victorian coastal ecosystems (Australia): chronic petroleum inputs to Westernport and Port Phillip Bays. *Archives of Environmental Contamination and Toxicology* 11: 129-140.
- Carnovale F 1997. *Ambient Air Monitoring of Particulate Matter in Tasmania - April 1997*, Unpublished report, Division of Environment and Planning/DELM, Hobart.
- Carnovale F and Saunders J 1988. *The deposition of atmospheric nitrogen species to Port Phillip Bay.* Addendum to SRS 87/002, Environment Protection Authority, Victoria.

- Chapman D 1992. *Water Quality Assessments: a Guide to the Use of Biota, Sediments and Water in Environmental Monitoring*. Published on behalf of UNESCO, WHO and UNEP, Chapman & Hall, London.
- Clementson LA 1981. *Polycyclic aromatic hydrocarbons in the marine environment*. Masters Thesis, University of Melbourne, Melbourne, Victoria.
- Clementson LA, Harris GP, Griffiths FB and Rimmer DW 1989. Seasonal and inter-annual variability in chemical and biological parameters in Storm Bay, Tasmania. 1. Physics, chemistry and the biomass of components of the food chain. *Aust. J. Mar. Freshwater Res.* 40: 25-38.
- Coates M, Connell DW, Boderio J, Miller EJ and Back R 1986. Aliphatic hydrocarbons in Great Barrier Reef organisms and environment. *Estuarine Coastal and Shelf Science* 23: 99-113.
- CEPA 1993. *Urban Stormwater, a Resource Too Valuable to Waste*. Commonwealth Environment Protection Agency, 1993.
- Commonwealth of Australia 1996. *Draft Guidelines for Urban Stormwater Management*. Department of Primary Industries and Energy.
- Consulting Environmental Engineers 1994. *Development Proposal and Environmental Management Plan. Hobart Sewerage Scheme: Selfs Point to Sandy Bay*.
- Cooper RD, Langlois D and Olley J 1982. Heavy metals in Tasmanian shellfish, 1-monitoring heavy metal contamination in the Derwent Estuary: use of oysters and mussels. *Journal of Applied Toxicology* 2(2): 99-109.
- Coughanowr C 1995. *The Derwent Estuary Nutrient Program Technical Report*. Sept. 1995. Department of Environment and Land Management, Hobart.
- Davies PE, Fulton W and Kalish S 1988. *The Environmental Effects of Effluent from the ANM Newsprint Mills at Boyer, Tasmania*. Inland Fisheries Commission, Hobart.
- Davies PE and Kalish SR 1989. *Water Quality of the Upper Derwent Estuary, Tasmania*. Inland Fisheries Commission Occasional Report No. 89-03, 157 p.
- Davies PE and Kalish SR 1994. Influence of river hydrology on the dynamics and water quality of the upper Derwent estuary, Tasmania. *Aust. J. Mar. Freshwater Res.* 45: 109-130.
- Department of the Environment, 1971-1988. *Annual Reports*. DELM, Hobart, Tasmania.
- Department of the Environment 1988. *Derwent River Monitoring Program 1987/88*. Information Paper, Department of the Environment/DELM, Hobart, Tasmania.
- Department of Environment and Land Management 1996. *State of the Environment Tasmania Volume 1: Conditions and Trends*. State of the Environment Unit, Land Information Services, DELM, Hobart.
- Department of Mines, 1976. *Geological map of Tasmania (1:500,000)*. Hobart
- Dineen RD and Noller B 1995. *Toxic Elements in Fish and Shellfish from the Derwent Estuary*. DELM, Hobart, Tasmania.
- Dix TG, 1974. Derwent Estuary fish netting survey 1972/73. *Tasmanian Fisheries Research* 8 (1): 11- 21.

- Dix TG, Martin A, Ayling GM, Wilson K and Ratkowsly D 1975. Sand flathead (*Platycephalus bassensis*) as an indicator species for mercury pollution in Tasmanian waters. *Marine Pollution Bull.* 6: 142-144.
- Eganhouse RP and Kaplan IR 1981. Extractable organic matter in urban stormwater runoff. 1. Transport dynamics and mass emission rates. *Env. Sci. & Tech.* 15: 310-315.
- Eganhouse RP, Simoneit BRT and Kaplan IR 1981. Extractable organic matter in urban stormwater runoff. 2. Molecular characterisation. *Env. Sci. & Tech.* 15: 315-326.
- Environment Tasmania 1996. *New Town Bay Sediment Survey*, Draft Report (October). DELM, Hobart.
- Eustace IJ 1974. Zinc, cadmium, copper and manganese in species of finfish and shellfish caught in the Derwent Estuary, Tasmania. *Aust. J. Mar. Freshwater Res.* 25: 209-220.
- Fam S, Stenstrom MK and Silverman G 1987. Hydrocarbons in urban runoff. *Journal of Environmental Engineering* 113: 1032-1046.
- Field R and Turkeltaub R 1981. Urban runoff receiving water impacts: program overview. *J. Environ. Eng. Div., Proc. Am. Soc. Civ. Eng.* 107, No. EE1, 83-100.
- Garland, C.D., 1995. *Estimate of Woodfibre-Rich Sludge in the Derwent River Estuary*, July 1995.
- Garland CD, Horwitz P and Holloway P 1990. *Derwent River Sludge Study (Phase 2). Technical Report.* Volume 2B. Distribution and characterisation of woodfibre-rich sludge in the Derwent River Estuary. DELM, Hobart.
- Garland CD and Jameson I 1995. *Survey of Woodfibre-Rich Sludge in the Derwent River Estuary, Summer 1995.*
- Garland CD and Statham J 1991. *Derwent River Sludge Study (Phase 2). Technical Report.* Volume 4. Survey of ANM Ltd Outfall Deposits, Toxicology Tests, Current Understanding of Sludge. DELM, Hobart, 42p.
- Garland CD and Statham J 1992. *Derwent River Sludge Study (Phase 2). Technical Report.* Volume 5. Surveys of Wood Fibre-Rich Sludge in the Derwent River Estuary, Spring 1991 and Summer 1992. DELM, Hobart, 66p.
- Gawne KM and Richardson BJ 1992. *An Investigation into the Distribution and Accumulation of Selected Chemical Species in the Waters, Sediments and Biota of the Lower Tamar Estuary, Tasmania.* Prepared for TEMCO and Comalco.
- Gavens A, Revitt DM and Ellis JB 1982. Hydrocarbon accumulation in freshwater sediments of an urban catchment. *Hydrobiologia* 91: 285-292.
- Geldreich EE, Best LC, Kenner BA and Van Donsel DJ 1968. The bacteriological aspects of urban stormwater pollution. *J. Water Pollut. Control Fed.* 40: 1861-1872.
- GHD 1996. *Clarence City Council Rokeby/Tranmere Sewerage Scheme.*
- Graham RA 1989. *Urban stormwater quality improvement in a detention pond and wetland system.* Ph.D. Thesis, Environmental Engineering, University of Melbourne, 103 p.
- Green GJ 1997. *Hydrocarbons and faecal material in urban stormwater and estuarine sediments: source characterisation and quantification.* PhD thesis, University of Tasmania, Hobart, Australia, 170 pp.
- Green GJ, Skerratt JH, Leeming R and Nichols PD 1992. Hydrocarbon and coprostanol levels in seawater, sea-ice algae and sediment near Davis Station in Eastern Antarctica: a

- regional survey and preliminary results for a fuel spill experiment. *Marine Pollution Bulletin*, 25: 293-302.
- Hallegraeff GM and Westwood KJ 1994. *Identification of Key Environmental Factors Leading to Nuisance Algal Blooms in the Derwent River*. Draft consultancy report prepared for DELM, Hobart.
- Hanslow S 1994. *Metals in Derwent Sediments*. Department of Geography and Environmental Studies, Grad. Dip. Environmental Studies Honours Thesis, University of Tasmania, Hobart.
- Harris GP, Nilsson CS, Clementson LA and Thomas DP 1987. The water masses of the east coast of Tasmania: seasonal and interannual variability and the influence on phytoplankton biomass and productivity. *Aust. J. Mar. Freshwater Res.* 38: 569-590.
- Harris GP, Griffiths FB, Clementson LA, Lyne V and Van der Doe H 1991. Seasonal and interannual variability in physical processes, nutrient cycling and the structure of the food chain in Tasmanian shelf waters. *J. Plankton Res.* 13:109-131.
- Harris G, Batley G, Fox D, Hall D, Jernakoff P, Molloy R, Murray A, Newell B, Parslow J, Skyring G and Walker S, 1996. *Port Phillip Bay Environmental Study Final Report*. CSIRO, Canberra.
- Hepper, Marriott and Associates 1985. *The Derwent River Management Plan*, Hobart Metropolitan Councils Association, Hobart.
- Hobart City Council. Stormwater monitoring data (1990-93).
- Hobart Marine Board 1996. *Annual Report*.
- Hoffman EJ, Latimer JS, Mills GL and Quinn JG 1982. Petroleum hydrocarbons in urban runoff from a commercial land use area. *J. Water Pollution Control Federation* 54: 1517-1525.
- Hoffman EJ, Mills GL, Latimer JS and Quinn JG 1984. Urban runoff as a source of polycyclic aromatic hydrocarbons to coastal waters. *Env. Sci. & Tech.* 18: 580-587.
- Hong H, Xu L, Zhang L, Chen C, Wong YS and Wan TSM 1995. Environmental fate and chemistry of organic pollutants in the sediment of Xiamen and Victoria Harbours. *Marine Pollution Bulletin* 31: 229-236.
- Horner RR 1992. *Water quality criteria/pollutant loading estimation/treatment effectiveness estimation*. In R.W Beck and Associates. Covington Master Drainage Plan. King County Surface Water Manage. Div., Seattle, WA.
- Horner RR, Skupien JJ, Livingston EH and Shaver HE 1994. *Fundamentals of Urban Runoff Management: Technical and Institutional Issues*. Terrene Institute, Washington, DC.
- Horwitz P and Blake G 1992. The benthic macrofauna of sludge-affected sediments in the Derwent Estuary, Southern Tasmania. *Papers and Proc. of the Royal Soc. Tas.* 126: 67-72.
- Hunter JV and Andrewartha JR 1992. *A Modelling Study of an Effluent Discharge at Self's Point, Tasmania*. CSIRO Division of Oceanography Report OMR-48/54 (revised version), 17 p.
- Hunter JV, Sabatino T, Gomperts R and MacKenzie MJ 1979. Contribution of urban runoff to hydrocarbon pollution. *J. Wat. Pol. Cont. Fed.* 51: 2129-2138.
- Hydro Electric Commission/Rivers and Water Supply Commission 1995. *The Hydro Electric Commission Water Resources Group, 1994 Annual Data Review*, HEC, Hobart.

- Jenkins C 1991. *An Investigation of Urban Stormwater Quality in Hobart*. BSc (Hons.) Thesis, Department of Geography and Environmental Studies, University of Tasmania, Hobart.
- Kayal SI and Connell DW 1989. Occurrence and distribution of polycyclic aromatic hydrocarbons in surface sediments and water in the Brisbane River Estuary, Australia. *Estuarine, Coastal and Shelf Science*, 29.
- Langlois D, Cooper RJ, Clark NH and Ratkowsky DA 1987. The effect of a mercury containment program at a zinc smelting plant on the mercury content of sand flathead in the Derwent Estuary. *Marine Pollution Bulletin* 18(2): 67-70.
- Leeming R and Maher W 1992. Sources of polycyclic aromatic hydrocarbons in Lake Burley Griffin, Australia. *Organic Geochemistry* 18: 647-655.
- Linforth S, Vorreiter L, Constandopoulos J and Biddulph S 1994). Source and effects of major pollutants in Sydney stormwater. *Water Down Under 94* 3, 335-340. Adelaide, SA.
- Long ER and Morgan LG 1990. *The Potential For Biological Effects of Sediment-Sorbed Contaminants tested in the National Status and Trends Program*. NOAA Technical Memorandum NOS OMA 52.
- McBride GB, Cooper AB and Till DG 1991. *Microbial water quality guidelines for recreation and shellfish-gathering waters in New Zealand*. Department of Health, Wellington.
- Melbourne Water 1992. *Interim Report on E. Coli Levels within Melbourne's Waterways*. Melbourne Water Corporation, Melbourne.
- Moverley JH and Garland CD 1995. *Recovery of Macrobenthos in Sediments of the Upper Derwent River Estuary in Relation to Reduced Woodfibre Enrichment*.
- Moverley JH and Ritz D 1996. Meiobenthic community structure around the Sandy Bay sewage outfall. In *The State of the Derwent: Proceedings of a Scientific Forum*, 26 April 1995, Hobart, Tasmania.
- National Health and Medical Research Council (NH&MRC) 1996. *Australian Food Standards Code, June, 1996*.
- Ngo HH, Bovis AM and O'Loughlin GG 1992. Sampling of stormwater water quality in two Sydney creeks. *International Symposium on Urban Stormwater Management*, Sydney 124-128.
- Nichols PD and Espey QI 1991. Characterisation of organic matter at the air-sea interface, in subsurface water, and in bottom sediments near the Malabar sewage outfall in Sydney's coastal region. *Aust. J. Mar. Freshwater Res* 42: 327-328.
- Nichols PD and Leeming R 1991. Tracing sewage in the marine environment. *Chemistry in Australia*, July 1991, 274-276.
- Nichols PD, Leeming R, Rayner M, Green G and Nespolo S 1993. *Characterisation of Stormwater and Related Samples from the Sydney Coastal Region Using Specific Organic Markers*. CSIRO Division of Oceanography Report 93-WBS2.
- NRC 1985. *Oil in the Sea: Inputs, Fates and Effects*. National Academy Press, Washington.
- Nyan Taw and Ritz DA 1978. Zooplankton distribution in relation to the hydrology of the Derwent River Estuary. *Aust. J. Mar. Freshwater Res.* 29: 763-775.

- Nyan Taw and Ritz DA 1979. Influence of subantarctic and subtropical oceanic water on the zooplankton and hydrology of waters adjacent to the Derwent River Estuary, southeastern Tasmania. *Aust. J. Mar. Freshwater Res.* 30: 179-202.
- Pasminco EZ 1996a. *Environmental Management Plan*. John Miedecke & Partners Pty Ltd.
- Pasminco EZ, 1996b. *Rehabilitation Plan. Loogana and Inshallah*. Thompson & Brett/Woodward Clyde.
- Pasminco EZ, 1996c. Effluent monitoring data. Submitted to Division of Environment and Planning/ DELM, Hobart.
- Pendlebury, 1987. *Notes accompanying the Derwent Estuary wind frequency analyses*. Bureau of Meteorology, Hobart.
- Pendoley K 1992. Hydrocarbons in Rowley Shelf (Western Australia) oysters and sediments. *Marine Pollution Bulletin* 24: 210-215.
- Pereira WE, Hostettler FD and Rapp JB 1996. Distributions and fate of chlorinated pesticides, biomarkers and polycyclic aromatic hydrocarbons in sediments along a contamination gradient from a point source in San Francisco Bay, California. *Marine Environmental Research* 41: 299-314.
- Pirzl HR 1996. *Distributions and Changes of Heavy Metal Concentrations in Sediments of the Derwent Estuary*. BSc (Hons.) Thesis, Department of Geography and Environmental Studies, University of Tasmania, Hobart.
- Pitt RE 1991. *Nonpoint source water pollution management*. Dep. Civil Eng., Univ. Alabama, Birmingham, AL.
- Plaschke R, Dal Pont G and Butler ECV 1997. Mercury in waters of the Derwent Estuary - sample treatment and analysis. *Marine Pollution Bulletin* 34: 177-185.
- Pollution Research 1991. *Feasibility Investigation: Removal of Contaminated Sediments, Risdon Wharf*. North Dorrig, NSW.
- Ratkowsky DA, Dix TG and Wilson KC 1975. Mercury in fish in the Derwent Estuary, Tasmania, and its relation to the position of the fish in the food chain. *Aust. J. Mar. Freshwater Res.* 26: 223-231.
- Ratkowsky DA, Thrower SJ, Eustace IJ and Olley J 1974. A numerical study of the concentration of some heavy metals in Tasmanian oysters. *J. Fish. Res. Board Canada* 31(7): 1165-1171.
- Rees C 1993. *Tasmanian Seagrass Communities*. Masters Thesis, Department of Geography and Environmental Studies, University of Tasmania, Hobart
- Richardson DE, Kearney PS, Parsons T, Volkman JK, Holdsworth DG and Walker SJ 1995. Analysis and control of resin acids in paper mill effluent and their dispersion in the Derwent River Estuary. In *The State of the Derwent: Proceedings of a Scientific Forum*, 26 April 1995, Hobart, Tasmania
- Rowlands WG, O'Brien EJ, Dolton JH, Sibun HJ, Burchmore JJ and Ward JA 1992. *Sydney Coastal Stormwater Study*. Sydney Water Board Research Report 45.
- Ryan L 1996. *The Aboriginal Tasmanians*. Allen and Unwin, St. Leonards, NSW.
- Scott A 1996. *Review of Urban Stormwater Research in Australia*. Technical Memorandum 96.9, CSIRO Division of Water Resources, Canberra.

- Shiaris MP and Jambard-Sweet D 1986. Polycyclic aromatic hydrocarbons in surficial sediments of Boston Harbour Mass., U.S.A. *Marine Pollution Bulletin* 17: 469-472.
- Smith JD, Hauser JY and Bagg J 1985. Polycyclic aromatic hydrocarbons in sediments of the Great Barrier Reef region, Australia. *Marine Pollution Bulletin* 16: 110-114.
- Snelder T and Trucman S 1995. *The Environmental Impacts of Urban Stormwater Runoff*. Auckland Regional Council Technical Publication No. 53, May 1995.
- Statham J and Garland CD 1990. *Derwent River Sludge Study (Phase 2). Technical Report*. Volume 3 Laboratory Experiments on Woodfibre-Rich Sludge of the Derwent River Estuary. DELM, Hobart, 53p.
- Tamvakis M 1994. *Old Tip Sites in Hobart* Masters Thesis. Centre for Environmental Studies, University of Tasmania.
- Thompson JD and Godfrey JS 1985. Circulation dynamics in the Derwent estuary. *Aust. J. Mar. Freshwater Res.* 36: 765-772.
- Thrower SJ and Eustace IJ 1973a. Heavy metal contamination in oysters grown in Tasmanian Waters. *Food Tech. in Australia.*, Nov 1973: 546-553.
- Thrower SJ and Eustace IJ 1973b. Heavy metals in Tasmanian oysters in 1972. *Aust. Fisheries*, Oct 1973: 7-10.
- Volkman JK, Deprez PP, Holdsworth DG, Rayner MS and Nichols PD 1989. Extractable organic compounds in sludge samples from the River Derwent, Tasmania. In: *Proceedings of Derwent River Habitat Quality Seminar*. (Ed. C.D. Garland), pp. 26-30. University of Tasmania, Hobart.
- Volkman JK, Holdsworth DG, Neill GP and Bavor HJ Jr 1992. Identification of natural, anthropogenic and petroleum hydrocarbons in aquatic sediments. *The Science of the Total Environment* 112: 203-219.
- Volkman JK, Rogers GI, Blackman AJ and Neill GP 1988. Biogenic and petroleum hydrocarbons in sediments from the D'Entrecasteaux Channel near Hobart, Tasmania. In: *AMSA Silver Jubilee Commemorative Volume*. pp. 82-86. Wavelength Press, Chippendale, NSW.
- Vorreiter L and Hickey C 1994. Incidence of the first flush phenomenon in catchments of the Sydney region. *Water Down Under 94* 3, Adelaide, SA, 359-364.
- Wakeham SG 1977. A characterisation of the sources of petroleum hydrocarbons in Lake Washington.. *J. Water Pollution Control Federation* 49: 1680-1687.
- Witt G 1995. Polycyclic aromatic hydrocarbons in water and sediment of the Baltic Sea. *Marine Pollution Bulletin* 31: 237-248.
- Wood JM 1988. *An Environmental Examination of Sedimentation in Lindisfarne Bay*. Department of Geography and Environmental Studies, Master of Environmental Studies Thesis, University of Tasmania, Hobart.
- Young WJ, Marston FM and Davis JR 1996. Nutrient exports and land use in Australian catchments. *Journal of Environmental Management* 47: 165-183.