

APPENDIX F

Draft : Environmental Impact Statement

Appendix F

Study Team

Appendix F Study Team

Table F1.1a Arup EIS Study Team

Name	Experience	Role on EIS
<p>Joyanne Manning <i>Associate Principal</i></p> <p>Brisbane</p>	<p>Joyanne Manning is a chartered civil engineer and certified Practising Project Director. Joyanne’s expertise is in the management of multi-disciplinary projects with an environmental influence. She has managed a large number of projects at conception, planning, permit and operational stage in the fields of asset rehabilitation and reconstruction, port expansion and dredging, renewable energy, waste management, flood prevention, food and beverage and commercial site development.</p> <p>Master of Engineering Science in Civil Engineering Bachelor of Engineering (Civil) Certified Practising Project Director</p>	<ul style="list-style-type: none"> • Project Director • Waste Management • Executive Summary • Part A
<p>Kellie Charlesworth <i>Associate</i></p> <p>Brisbane</p>	<p>Kellie is an experienced senior environmental consultant with over 17 years’ experience in environmental management and regulatory compliance in Australia and overseas. Kellie has a proven track record in the delivery of projects, particularly for large infrastructure and the resource sector. Kellie has a broad depth of experience that includes environmental approvals and compliance, environmental impact assessment, management plans, licencing and development applications, EMS and environmental design review.</p> <p>Master of Engineering Science in Environmental Engineering Bachelor of Applied Science in Environmental Science with Hons.</p>	<ul style="list-style-type: none"> • EIS Co-Author • Part A
<p>Mark Aitken <i>Associate</i></p> <p>Cairns</p>	<p>Mark has over 15 years’ experience in the consulting engineering industry and has been involved in the management and delivery of various building and infrastructure projects throughout North Queensland.</p> <p>Associate Degree in Civil Engineering Bachelor of Engineering Technology (Building & Construction Management) Post Graduate Certificate in Management Diploma of Project Management</p>	<ul style="list-style-type: none"> • Project Manager
<p>Martin England <i>Principal</i></p> <p>Brisbane</p>	<p>Martin has over 25 years’ experience in the planning and delivery of major infrastructure projects and programs. The majority of these projects have included work with multidisciplinary teams and included overall</p>	<ul style="list-style-type: none"> • Review and Strategic Input

Name	Experience	Role on EIS
	<p>project management, design team management, planning and approvals, design, procurement and contract administration.</p> <p>Bachelor of Engineering</p>	
<p>Gary Lucas <i>Principal</i></p> <p>Brisbane</p>	<p>Gary Lucas is a senior consulting engineer and manager with 37 years of Australian and international experience in port and harbour engineering and EPCM project delivery in the minerals and fine chemicals industries. Gary has extensive experience in strategic business development and management as well as extensive contract management and project management experience in the maritime, civil infrastructure and mining project fields.</p> <p>Bachelor of Engineering (Hons) Master of Engineering Science, Master of Applied Laws</p>	<ul style="list-style-type: none"> • Maritime Operations
<p>Lisa McKinnon <i>Senior Consultant</i></p> <p>Brisbane</p>	<p>Lisa McKinnon is an Environmental Scientist, who has worked in both the private sector and local government. Her areas of expertise in environmental management include environmental assessment for infrastructure and masterplanning projects, gaining environmental approvals, preparing environmental management plans and conducting environmental auditing.</p> <p>Bachelor of Science (Australian Environmental Studies)</p>	<ul style="list-style-type: none"> • EIS Co-Author • Part D East Trinity
<p>Jasvinder Opkar <i>Senior Engineer</i></p> <p>Brisbane</p>	<p>Jasvinder Opkar is a Senior Maritime Engineer with over 11 years of professional experience. Jasvinder specialises in Maritime and Coastal Engineering and has worked on a number of major port and coastal engineering projects in Australia and Asia with contractors and design firms. Jasvinder has worked on various types of ports including cruise terminals, container, bulk handling, general cargo, RORO and LNG terminals.</p> <p>Bachelor of Engineering (Civil) with Hons.</p>	<ul style="list-style-type: none"> • Maritime Operations
<p>Marissa Powell <i>Senior Specialist</i></p> <p>Brisbane</p>	<p>Marissa is a social and engagement specialist with 12 years' experience in the communication, engagement and social assessment field. Her engagement work focuses on understanding the social environment through interaction with people and groups as well as the interpretation of existing social data such as census and other existing reports. This understanding helps her build engagement processes that allow people to participate in the discussion about issues that may impact or benefit them.</p>	<ul style="list-style-type: none"> • Stakeholder Engagement • Social Impact Assessment

Name	Experience	Role on EIS
	Graduate Certificate in Social Impact Assessment Master of Business (Major in Public Relations) Certificate in Public Participation Bachelor of Business	
Luke Bertini <i>Consultant</i> Cairns	Luke is a Project Manager in Arup's Cairns Office. Luke commenced his career as an Environmental Consultant, gaining experience in environmental assessments (roads, rail, airports), site audits, erosion and sediment control, sustainability assessments and carbon management. He joined Management group in 2013, overseeing infrastructure and buildings upgrades in Brisbane and Cairns. Bachelor Urban & Environmental Planning Diploma of Business and Business Management	<ul style="list-style-type: none"> • Project Manager
Chris Madigan <i>Senior Consultant</i> Brisbane	Chris Madigan is a Chartered and Registered Senior Landscape Architect with 7 years' experience across the UK and Australia. Chris works to deliver creative, environmentally sensitive solutions to complex design projects, working collaboratively to integrate the ecological, water resource and landscape design issues of a project. He is proficient in a range of software packages including AutoCAD, Microstation, Adobe Creative Suite, Topos, GIS and SketchUp. Post Graduate Diploma in Landscape Architecture Bachelor of Arts (Landscape Architecture) with Hons.	<ul style="list-style-type: none"> • Landscape & Visual Assessment
Aaron Yuen <i>Consultant</i> Melbourne	Aaron is a Sustainability Consultant with a combined degree in Mechanical Engineering and Commerce (Finance). His project experience includes; alternative energy investigations with financial analysis, life-cycle assessments, environmental reviews, air quality assessments, and industry engagement through workshop development and facilitation. He is also experienced in matters relating to climate change, from both a carbon mitigation and climate change adaptation perspective. Bachelor of Engineering with Hons. Bachelor of Commerce ISCA Infrastructure Sustainability Accredited Professional (ISAP)	<ul style="list-style-type: none"> • Climate Change and GHG
Peter Dunn <i>Associate Principal</i> Brisbane	Peter Dunn is a transport planner specialising in strategic transport planning, economic evaluation, demand forecasting, and design of transport infrastructure. He	<ul style="list-style-type: none"> • Transport

Name	Experience	Role on EIS
	<p>has extensive international experience in major transportation projects and is the national transport modelling skills leader in Australia. Peter is responsible for the project management of transport related work undertaken in Australia and New Zealand.</p> <p>Bachelor of Engineering (Civil)</p>	
<p>Brendon Gallagher <i>Senior Technician</i></p> <p>Cairns</p>	<p>Brendon has gained a broad range of experience in the planning and delivery of major infrastructure and development projects. The majority of these projects have included work with multidisciplinary teams and included overall project management, resource management, design team management, planning and approvals, and design.</p> <p>Diploma of Management Senior RSA (TMR)</p>	<ul style="list-style-type: none"> • Transport
<p>Cameron Hough <i>Senior Engineer</i></p> <p>Brisbane</p>	<p>Cameron Hough is an Acoustic Consultant with significant experience in the assessment of underwater and airborne noise levels from major infrastructure facilities and on the assessment of noise impacts on aquatic and terrestrial flora and fauna.</p> <p>Bachelor of Engineering (Mechanical) with Scholars (Hons Class I)</p>	<ul style="list-style-type: none"> • Noise & Vibration
<p>Katie McKenzie <i>Environmental Consultant</i></p> <p>Sydney</p>	<p>Katie is a sustainability and environmental consultant. Katie has experience in major infrastructure, sustainability and environmental planning projects, particularly in air quality and greenhouse gas assessments.</p> <p>Bachelor of Science Masters of Environmental Management</p>	<ul style="list-style-type: none"> • Air Quality
<p>Steven Jarman <i>Consultant</i></p> <p>Brisbane</p>	<p>Steven is an Ecologist and Environmental Consultant. He has experience in EIS preparation and overarching coordination, ecological assessments, botanical studies, legislative reviews, risk assessments, ecosystem modelling, impact assessments concerning a wide range of environmental aspects and public consultation.</p> <p>Masters of Science (Conservation Biology) Bachelor of Environmental Management (Sustainability) with First Class Honours</p>	<ul style="list-style-type: none"> • Ecologist • Nature Conservation
<p>Subha Balasubramanian <i>Engineer</i></p> <p>Brisbane</p>	<p>Subha is an environmental engineer with a keen interest in water quality, GIS, hydraulic modelling, planning and design of water and waste water treatment systems. She has experience with system planning studies for water and wastewater infrastructure systems, concept design of recycled water schemes, water sensitive urban design for highway development projects, and hydraulic</p>	<ul style="list-style-type: none"> • Water Resources

Name	Experience	Role on EIS
	<p>modelling of pipe networks.</p> <p>Bachelor of Engineering (Civil) Masters of Environmental Engineering Post Graduate Certificate in GIS</p>	

Table F1.1b BMT WBM EIS Study Team

Name	Experience	Role on EIS
<p>Greg Fisk <i>Associate</i></p> <p>Brisbane</p>	<p>Greg has over 18 years of experience in preparing, assessing and managing multi-disciplinary environmental plans and impact assessment studies.</p> <p>He has a thorough knowledge of environmental law, policy, planning and management regimes throughout Australia. In particular, Greg has specialised expertise in wetland, coastal and marine legislation and planning, climate change, environmental impact assessment and environmental management related to transport and energy infrastructure.</p> <p>Master of Science (Marine Policy) Bachelor of Arts (Marine Science Affairs)</p>	<ul style="list-style-type: none"> • Technical Director • Executive Summary • Part A
<p>Brad Grant <i>Senior Environmental Scientist</i></p> <p>Brisbane</p>	<p>Brad is a senior environmental scientist with BMT WBM. Brad has over 11 years' experience working for local government and private organisations in South-East Queensland and overseas. He has a broad range of expertise including water quality, total water cycle management, environmental management, environmental auditing and monitoring, and stormwater management. He also has a broad knowledge of environmental legislation as it relates to infrastructure projects and integrated water cycle management.</p> <p>Bachelor of Science (Environmental Science)</p>	<ul style="list-style-type: none"> • Water Quality • Part D East Trinity
<p>Darren Richardson <i>Associate</i></p> <p>Brisbane</p>	<p>Darren has over 20 years' experience in research and environmental consulting. His fields of expertise cover all aspects of freshwater, estuarine and marine ecology, with a focus on environmental impact assessment and environmental management. Darren is also experienced in designing statistically rigorous environmental monitoring programs using a range of statistical techniques relevant to ecological and impact assessment studies.</p> <p>Doctor of Philosophy Bachelor of Applied Science (Class 1 Hons)</p>	<ul style="list-style-type: none"> • Marine Ecology

Name	Experience	Role on EIS
<p>Ian Teakle <i>Associate</i></p> <p>Brisbane</p>	<p>Ian is Senior Coastal Engineer with over 13 years' experience in water resources and coastal engineering. He has particular expertise in coastal and estuarine process studies having completed a PhD at the University of Queensland in coastal sediment transport modelling.</p> <p>Ian's role at BMTWBM primarily involves the application of numerical models to coastal process assessments in the context of Environmental Impact Studies, Climate Change Vulnerability Assessments and Coastal Hazard Studies.</p> <p>Doctor of Philosophy (Coastal Engineering) Bachelor of Engineering (Civil) with Hons.</p>	<ul style="list-style-type: none"> Coastal Processes
<p>Matthew Barnes <i>Senior Engineer</i></p> <p>Brisbane</p>	<p>Matthew has a strong coastal engineering and marine science background with over nine years' experience in research and environmental consulting. His particular expertise is in coastal hydrodynamics and sediment transport and has completed two postgraduate degrees in this field.</p> <p>His role at BMTWBM primarily involves applying numerical models to assess coastal processes on a regional or local scale. These assessments typically inform Shoreline Erosion Management Plans, Coastal Hazard Studies (storm surge and/or climate change adaptation), Environmental Impact Studies and the design of coastal structures.</p> <p>Doctor of Philosophy (Coastal Engineering) Master of Science (Applied Marine Science) Bachelor of Engineering Technology (Coastal Resource Management)</p>	<ul style="list-style-type: none"> Coastal Processes
<p>Michael Barry <i>Associate</i></p> <p>Brisbane</p>	<p>Michael has more than 15 years' experience in the areas of geophysical and environmental fluid dynamics, water quality and environmental management, both domestically and overseas. He has considerable expertise in the areas of numerical modelling, receiving water quality management, integrated urban water modelling and management and scientific programming. Michael also has a strong research background, having completed his PhD studies in 2001. This is supported by an ongoing peer reviewed publication record.</p> <p>Doctor of Philosophy (Engineering) Bachelor of Engineering with Hons Bachelor of Science (Chemical)</p>	<ul style="list-style-type: none"> Water Quality
<p>Ryan Shojinaga <i>Environmental Engineer</i></p> <p>Brisbane</p>	<p>Ryan is a Water Resource Engineer with over seven years of industry experience. He has worked on numerous water quality modelling projects including modelling of catchment flows and pollutant loads,</p>	<ul style="list-style-type: none"> Water Quality

Name	Experience	Role on EIS
	<p>receiving water hydrodynamics and water quality, and mixing zones. He also has extensive knowledge of the scientific, engineering and regulatory frameworks to address various stages of project planning and permitting.</p> <p>Bachelor of Science (Mathematics) Bachelor of Science (Civil Engineering)</p>	
<p>Beth Toki <i>Senior Marine Ecologist</i></p> <p>Brisbane</p>	<p>Beth has a sound understanding of environmental research and ecological principles to a vast array of marine and aquatic consulting projects. These have primarily focused on environmental impact assessments for water and linear infrastructure proposals, port or airport developments, and dredging projects. Beth also has a strong focus on fisheries habitat and waterway health assessments, or monitoring, for the mining and private development industries, and for Local Government.</p> <p>Doctor of Philosophy Bachelor of Science with Hons.</p>	<ul style="list-style-type: none"> • Marine Ecology
<p>Marcus Gregson <i>Environmental Field Technician</i></p> <p>Brisbane</p>	<p>Marcus has over 10 years' experience in the collection of environmental field data. His previous roles include environmental field technician, research assistant, and senior fisheries management positions. Marcus combines his scientific qualifications with an extensive list of practical and technical skills and experience that make him an integral part of field based environmental assessment projects. He also has extensive experience in equipment and vessel operations and maintenance, and thousands of hours experience as a vessel master in a variety of environments.</p> <p>Bachelor of Science (Environmental Biology) with Hons.</p>	<ul style="list-style-type: none"> • Water Quality
<p>Dr Markus Billerbeck <i>Senior Environmental Scientist</i></p> <p>Brisbane</p>	<p>Markus has undertaken numerous sediment quality assessments in accordance with the National Assessment Guidelines for Dredging 2009 (NAGD) including the preparation of Sampling and Analysis Plans (SAP), SAP implementation and data analysis/reporting. He has also undertaken third-party peer reviews of SAPs and SAP implementation reports on behalf of the Australian Commonwealth Government.</p> <p>PhD (Aquatic Biogeochemistry) Master of Science (Marine Biology).</p>	<ul style="list-style-type: none"> • Sediment Quality

Table F1.1c Converge EIS Study Team

Name	Experience	Role on EIS
<p>Simon Gall <i>Director</i></p> <p>Brisbane</p>	<p>Simon has in excess of 15 years' experience working in both Australia and Europe as a field archaeologist, excavation director, and cultural heritage practitioner. Simon has considerable experience in the provision of high level strategic advice to local government, private industry and state and Commonwealth government bodies.</p> <p>Bachelor of Arts (Anthropology and Archaeology) with Hons.</p>	<ul style="list-style-type: none"> • Cultural Heritage
<p>Karen Townrow <i>Senior Cultural Heritage Consultant</i></p> <p>Brisbane</p>	<p>Karen's work in the field of cultural heritage over the last 15 years includes a diverse range of projects, including project management, Aboriginal and non-Indigenous cultural heritage surveys and assessments, the preparation of conservation management plans, archaeological monitoring, provision of heritage advice, impact assessments, compliance recording, the preparation of agreements under the Aboriginal Cultural Heritage Act and general site assessment and recording for all historic heritage projects.</p> <p>Bachelor of Arts (Archaeology) with Hons</p>	<ul style="list-style-type: none"> • Cultural Heritage
<p>Suzanne Gibson <i>Cultural Heritage Consultant</i></p> <p>Brisbane</p>	<p>Suzanne is experienced in interpretive planning and advice, interpretive research and writing, significance assessments, historic heritage archival recordings and thematic history research and writing. She has a solid understanding of post contact history in Northern Queensland, as well as a strong sense of the area's post war political, social and environmental histories.</p> <p>Master of Arts (Museums and Collections) Graduate Diploma in History Bachelor of Arts (Communications)</p>	<ul style="list-style-type: none"> • Cultural Heritage
<p>Craig Barrett <i>Senior Cultural Heritage Consultant</i></p> <p>Brisbane</p>	<p>Craig's work in the field of cultural heritage over the last decade includes a diverse range of projects, including project management; historical research and thematic histories; heritage advice for adaptive reuse of buildings, impact assessment and conservation management projects; planning advice for built heritage projects, preparation of local heritage studies and general site assessment and recording for all historic heritage projects.</p> <p>Doctor of Philosophy (History) Bachelor of Arts (History) with Hons.</p>	<ul style="list-style-type: none"> • Cultural Heritage

Table F1.1d **Technical Advisors**

Name	Experience	Role on EIS
<p>Jackie Wright <i>Director</i> EnRisks Brisbane</p>	<p>Jackie Wright has over 25 years' experience in human health and environmental risk assessment in Australia. Jackie's areas of expertise include toxicology, public health, occupational health, health impact assessment, exposure modelling and assessment, indoor air quality assessment and air toxics. She has been involved in the development of national and industry guidance in Australia on the assessment of risks to human health and the development of health-based guidelines for contaminated land, vapour migration and inhalation exposures and clandestine drug laboratories.</p> <p>BE (Hons.) University of Sydney Currently undertaking PhD research in Public Health at Flinders University</p>	<ul style="list-style-type: none"> • Health Impact Assessment
<p>Chris Buckley <i>Director</i> Metre Design Brisbane</p>	<p>Chris Buckley is a Life Fellow of the PIA and received a National Lifetime Achievement Award from the PIA in 2011 for his contribution to the profession. His experience is across all forms of development assessment and strategic planning, including development and valuation litigation. Chris has a strong familiarity with the Cairns region having been City Planner at the former Cairns City Council where he worked from 1980-1989. He has worked on a number of Cairns region planning and transportation studies both when working within local government and as a consultant.</p> <p>Bachelor of Regional and Town Planning (Hons)</p>	<ul style="list-style-type: none"> • Strategic Planning
<p>Bill Cummings <i>Director</i> Cumming Economics Cairns</p>	<p>Bill Cummings is an experienced regional business economist. Apart from carrying out wide ranging economic and market research covering almost all aspects of the economy (especially in Australia's tropical north east), he has served on numerous boards and committees over the years, including as Deputy Chairman of the North Australia Development Council and on the Council of James Cook University of North Queensland</p> <p>Bachelor of Economics</p>	<ul style="list-style-type: none"> • Economic Assessment
<p>Jim Bitomsky <i>Director</i> Kleinhardt Business Consultants Cairns</p>	<p>Jim is an experienced business consultant. Jim has held a number of senior executive positions reporting directly to boards. During his time with Kleinhardt he has completed many assignment requiring the application of in-depth knowledge of the regional economy and the application of business skills and expertise in feasibility studies, corporate and regional planning.</p>	<ul style="list-style-type: none"> • Socio-Economic Reviewer

Name	Experience	Role on EIS
	Diploma Human Resources Management Diploma Company Directorship	
Peter Wulf UBBC Pty Ltd Brisbane	Peter Wulf is a scientist and barrister with over 25 years' experience leading conservation, environmental, engineering, legal, marine, natural resource and catchment and protected area management multi-disciplinary projects. Peter's scientific experience is based on training as a biologist/ecologist backed up by extensive conservation and environmental skills. Masters of Laws Bachelor of Science (Hons – Marine Biology) Bachelor of Science (Hons – Botany) Barrister at Law, Supreme Court of Queensland, High Court of Australia	<ul style="list-style-type: none"> • Technical and Peer Review
Colin Apelt Brisbane	Colin Apelt is Emeritus Professor and Honorary Research Consultant in the Department of Civil Engineering at The University of Queensland. He has had extensive professional experience in water and coastal engineering throughout his career, first as design engineer with the Queensland Irrigation Commission and then as specialist engineering consultant. Bachelor Engineering (Hons) Civil Engineering Doctor of Philosophy Fluid Dynamics	<ul style="list-style-type: none"> • Technical and Peer Review
Johan Pronk <i>Principal</i> Pro Dredging and Marine Consultants Pty Ltd Brisbane	Johan has 35 years of experience in the dredging industry. He has a long association with the Australasian region which has provided him with great knowledge of dredging and reclamation projects in the region. Having worked at all levels of management within several dredging companies, Johan's experience is extensive. Master of Science (Civil Engineering)	<ul style="list-style-type: none"> • Dredging

Table F1.1e **Ports North**

Name	Experience	Role on EIS
Alan Vico <i>General Manager</i> <i>Planning and Projects</i> Ports North Cairns	Alan has 26 years' experience, including Capital and Maintenance dredging and reclamation at Ports of Cairns, Townsville, Mourilyan and Karumba, foreshore works, wharf, marina and wave barrier design and construction management, ground decontamination and improvement works, building works, water and sewerage treatment design, construction, and operation. Associate Diploma Civil Engineering	<ul style="list-style-type: none"> • Project Director

Name	Experience	Role on EIS
	Bachelor of Engineering (Hons) Graduate Diploma Business (Technology Management)	
Adam Fletcher <i>Environment Manager</i> Ports North Cairns	Adam has 18 years' experience, including Port environmental management, long term compliance monitoring for dredging and sea disposal in Cairns and Karumba, Fisheries and Waterways management. Bachelor of Science (Environment) (Hons) Diploma Sustainability	<ul style="list-style-type: none"> • Technical Input and Review
Kerry Egerton <i>General Manager</i> <i>Corporate Services</i> Ports North Cairns	Kerry has over 21 years' management experience in both public and private sector organisations involved in maritime, aviation, mining and forestry industries. Kerry has been with Ports North for 14 years and is responsible for communication and stakeholder engagement. This includes development of communication material, stakeholder briefings, community engagement, issues management and media management. Post Graduate Diploma Management (Human Resources)	<ul style="list-style-type: none"> • Stakeholder and Community Consultation • Media and Public Relations
Jeff Bunt <i>Consultant Project Manager</i> Cairns	Jeff Bunt is a chartered civil engineer with over 30 years' experience working in both the private and public sectors. He has extensive experience in project management, from initial concept planning through to construction and commissioning. Jeff has over 10 year's relevant experience in the maritime engineering field. Bachelor of Engineering (Hons) Graduate Diploma of Municipal Engineering	<ul style="list-style-type: none"> • Project Manager
Rick Morton <i>Environmental Consultant</i> Brisbane	Rick has over 25 years' experience in environmental management requirements for port operation and development, especially from a dredging perspective. He has had significant experience in environmental impact assessments and approval processes associated with coastal development throughout Queensland. Bachelor of Science (Marine Biology) Master of Science (Marine Biology) Doctor of Philosophy (Marine Environmental Impact Assessment)	<ul style="list-style-type: none"> • Technical Input and Peer Review • Stakeholder Consultation

