



PORT of TOWNSVILLE
Nexus North Queensland

Appendix F GHD Project Delivery Team

Townsville Marine Precinct Project
Environmental Impact Statement





TMPP EIS Senior Project Delivery Team

Our people deliver innovative solutions by combining technical skill and experience with an understanding of our clients' objectives and aspirations. We differentiate ourselves through Leadership, Partnership, Comprehensive Solutions and Value Added Services.

Our Project Team has undertaken numerous environmental impact assessments for major infrastructure developments throughout Queensland and has had extensive experience in the investigation and design of breakwater walls and dredging projects.

A Project Organisation Chart showing our Management Team and Team for each relevant discipline is attached. Pen portraits for lead staff as well as their role and location are provided following.

Team Member	Location	Proposed Role	Relevant Experience
GHD MANAGEMENT GROUP			
Anne Lavers Townsville Office Manager	Townsville	Project Director	Anne Lavers is the Townsville Office Manager with some 18 years experience in the engineering field including components such as design, design management, project and program management and construction supervision. Anne has a diverse skill base ranging through several disciplines including, structural, civil, water/wastewater and the transportation sectors. Anne has recently returned to Australia after four years in the Wellington Office in New Zealand.
Dr Kerry Neil Principal Marine Ecologist	Cairns	Project Manager EIS, Project Management and Environmental Studies	Kerry is a Principal Environmental Scientist with over 9 years experience in marine environmental management, impact assessment, marine research and publication. Kerry has recently joined GHD, previously she was the Cairns-based leader of the Introduced Marine Pest Species group hosted by the Cooperative Research Centre for the Great Barrier Reef World Heritage Area. Kerry's experience in designing and implementing marine pest monitoring programs is evidenced by her extensive contributions to the design of Australia's National Marine Pest Monitoring Strategy. In conjunction with Dr Keith Hayes (CSIRO Hobart) and others, Kerry has also co-authored a review that compares the efficacy and cost-efficiency of various introduced marine pest sampling strategies for tropical and temperate ports (Hayes et al, 2005).



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Scott Vivian Manager - Marine Group	Brisbane	Project Management Construction and Infrastructure	Scott has 11 years broad based experience in delivery of marine projects, both from a technical and design management perspective. His experience includes design management, structural assessment, coastal process assessment, marine temporary works and dredging works. Scott heads up the Marine Service Group in Brisbane, incorporating marine infrastructure, dredging and coastal works sub disciplines.
MANAGEMENT SUPPORT GROUP			
Anne Lavers Townsville Office Manager	Townsville	Project Director	Anne Lavers is the Townsville Office Manager with some 18 years experience in the engineering field including components such as design, design management, project and program management and construction supervision. Anne has a diverse skill base ranging through several disciplines including, structural, civil, water/wastewater and the transportation sectors. Anne has recently returned to Australia after four years in the Wellington Office in New Zealand.
Ross Fryar GHD Business Manager Environment and Water	Brisbane	Project Integration	Ross has 20 years experience in the water and environment sector, with a significant proportion of this pertaining to the assessment of impacts of major coastal infrastructure projects. He has been involved in over 30 projects pertaining to dredging, sedimentation, port development and outfalls in coastal environments and is highly familiar with ports and dredging issues in Townsville, and in other Queensland ports. Ross undertakes a corporate role for GHD as liaison with the Co-ordinator General and Department of Infrastructure and Planning to facilitate the delivery of GHD's major infrastructure and environmental projects statewide. Ross is also experienced in the integration of engineering, modelling and environmental disciplines.



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Julie Keane Principal Environmental Impact Manager	Brisbane	Approvals and Peer Review EIS	Julie is a Principal Impact Assessment Manager with over twelve years experience spanning all aspects of environmental impact assessment, regional planning and regional development. She has worked on a number of significant environmental impact studies, managing multi-disciplinary teams and handling all aspects of land use, social impacts, community consultation and legislative issues.
Bryce Skarratt Service Line Leader Impact Assessment and Approvals	Brisbane	EMP and Peer Review EIS	Bryce Skarratt has over 15 years experience on a wide range of environmental assessments for major infrastructure projects. He has also undertaken peer review of similar studies for both the proponent and regulatory authorities. Recent major projects include the Western Corridor Recycled Water Project (the largest recycled water project in the Southern hemisphere) and Hale Street Bridge EIS in Brisbane, Gold Coast Cruise Ship Terminal, an aluminium project in Saudi Arabia and a proposed pulp mill in northern Tasmania. Bryce is currently providing EIS leadership for the Melbourne Desalination Plant.
MARINE ECOLOGY AND BIRDS			
Dr Kerry Neil Principal Marine Ecologist	Cairns	Technical Leader	<p>Kerry is a Principal Environmental Scientist with over 9 years experience in marine environmental management, impact assessment, marine research and publication. Kerry has recently joined GHD, previously she was the Cairns-based leader of the Introduced Marine Pest Species group hosted by the Cooperative Research Centre for the Great Barrier Reef World Heritage Area.</p> <p>Kerry's experience in designing and implementing marine pest monitoring programs is evidenced by her extensive contributions to the design of Australia's National Marine Pest Monitoring Strategy. In conjunction with Dr Keith Hayes (CSIRO Hobart) and others, Kerry has also co-authored a review that compares the efficacy and cost-efficiency of various introduced marine pest sampling strategies for tropical and temperate ports (Hayes et al, 2005).</p>
Dr Peter Driscoll	Consultant	Wading and Migratory Birds Assessment	



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NOISE, VIBRATION AND AIR QUALITY ASSESSMENT			
Barry Cook Air Quality Specialist	Melbourne	Air Quality – Technical Leader	Barry is a Senior Environmental Scientist, and a member of the Air Assessment team in GHD’s Melbourne office. He has combined consulting, regulatory and industry experience with air quality modelling systems and assessments. His previous positions as a meteorologist at environmental consulting firms, EPA Victoria and Mount Isa Mines (now a part of Xstrata plc) and his current position with GHD have provided him with over 20 years of experience.
Vincent Chavand Acoustics Engineer	Newcastle	Noise and Vibration – Technical Leader	Vincent has over 8 years experience in acoustics and vibration engineering. He has been involved with numerous projects in the mining, industry, building and rail sectors. He has gained extensive experience in field measurements, data analysis, noise and vibration control and project management. He also has knowledge of Cadna-A, ENM and SoundPLAN environmental noise modelling softwares, EASE 123 architectural acoustics modelling software, and AutoCAD computer aided design software.
Greg Collins Air Quality Specialist	Melbourne	Noise and Vibration – Technical Leader	Greg is an Environmental Scientist with GHD who is involved in managing projects in the fields of acoustics. Greg is a service line leader in acoustics for GHD. Greg has extensive experience in noise assessments for environmental impact statements, development and rezoning applications, industry, road traffic noise, machinery noise testing and environmental noise monitoring. He has project managed environmental monitoring programs (Air and Noise) for Mt Arthur Coal, Mt Owen Mine, Ravensworth Coal Terminal and Donaldson Mine. Greg has also conducted OHS&R surveys for noise and air quality in the workplace. Greg has a thorough understanding of NSW DEC Industrial Noise Policy, Environmental Criteria for Road Traffic Noise, and the Environmental Noise Control manual.
GENERAL EIS PREPARATION			
Dr Kerry Neil Principal Marine Ecologist	Cairns	Technical Leader	Kerry is a Principal Environmental Scientist with over 9 years experience in marine environmental management, impact assessment, marine research and publication. Kerry has recently joined GHD, previously she was the Cairns-based leader of the Introduced Marine Pest Species group hosted by the Cooperative



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			<p>Research Centre for the Great Barrier Reef World Heritage Area.</p> <p>Kerry's experience in designing and implementing marine pest monitoring programs is evidenced by her extensive contributions to the design of Australia's National Marine Pest Monitoring Strategy. In conjunction with Dr Keith Hayes (CSIRO Hobart) and others, Kerry has also co-authored a review that compares the efficacy and cost-efficiency of various introduced marine pest sampling strategies for tropical and temperate ports (Hayes et al, 2005).</p>
ECONOMIC ASSESSMENTS			
AEC Group Thor Lyster	Consultant	Economic Assessment	
WATER, SEDIMENT, ACID SULFATE SOILS AND HYDROGEOLOGY			



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<p>Joanna Lee Water and Sediment Control</p>	Gladstone	Water and Sediment – Technical Leader	<p>Joanna is the leader of GHD’s Gladstone based Environmental Team. She has been involved in a wide range of environmental studies, with a focus on the assessment and management of the impacts of various construction and land use activities on sensitive receiving environments and has extensive experience in water and sediment quality assessments. Joanna leads the GHD team appointed to the Department of the Environment, Water, Heritage and the Arts (DEWHA) panel of consultants for the assessment of ocean disposal permits and long-term dredge spoil management plans.</p>
<p>Rob Virtue Principal Hydrogeologist</p>	Hobart	PASS and Hydrogeology - Technical Leader	<p>Robert Virtue is a Principal Hydrogeologist with approximately 20 years experience in geological and hydrogeological investigations for local, state and federal government, major mining companies and commercial and industrial organisations. He has worked on projects throughout Australia and has significant experience with Acid Sulfate Soils (ASS) and Acid and Metalliferous Drainage (AMD). Robert was a member of the Technical Committee, which reviewed the Queensland Soil Management Guidelines and Acid Sulfate Soils Laboratory Methods Guidelines. Robert also has significant experience in organic and inorganic hydrogeochemistry, analysis of historical groundwater and geochemical data, development of conceptual and numerical groundwater flow and solute transport models.</p>
TERRESTRIAL ECOLOGY AND BIRDS			
<p>Andrew Small Principal Environmental Scientist</p>	Cairns	Terrestrial Ecology and Birds – Technical Leader	<p>Andrew Small (PhD) has been working in the fields of impact assessment and environmental management for over 20 years, with extensive experience in tropical ecosystems. He is a Principal Scientist with GHD and as a member of the Smithsonian Institute Man and the Biosphere Measuring and Monitoring Biodiversity team (funded through UNESCO) he has undertaken impact assessments, planning and implemented monitoring programs, and species and environment management projects throughout south-east Asia, northern and eastern Australia, south west Pacific, the United States and various countries in South America (Uruguay, Suriname, Colombia and Ecuador).</p>



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COASTAL PROCESSES, HYDRODYNAMICS, CLIMATE AND NATURAL DISASTERS			
Ross Fryar GHD Business Manager Environment and Water	Brisbane	Coastal Processes, Hydrodynamics, Climate and Natural Disasters - Technical Leader	Ross has 20 years experience in the water and environment sector, with a significant proportion of this pertaining to the assessment of impacts of major coastal infrastructure projects. He has been involved in over 30 projects pertaining to dredging, sedimentation, port development and outfalls in coastal environments and is highly familiar with ports and dredging issues in Townsville, and in other Queensland ports. Ross undertakes a corporate role for GHD as liaison with the Co-ordinator General and Department of Infrastructure and Planning to facilitate the delivery of GHD's major infrastructure and environmental projects statewide. Ross is also experienced in the integration of engineering, modelling and environmental disciplines.
LANDSCAPE CHARACTER AND VISUAL AMENITY			
Tracey Hooper	Brisbane	Landscape Character and Visual Amenity – Technical Leader	Tracey is a senior environmental planner with experience in landscape and visual impact assessment, recreation planning, natural area management, environmental management and town planning. Tracey has undertaken a range of projects that have incorporated an assessment of the visual impact with proposed mitigation measures. Her experience also includes technical reviews for both government and private sector projects.
SOCIAL, CONSULTATION, ECONOMIC, AND CULTURAL HERITAGE			
Arwen Rickert Environment and Behaviour Consultants	Consultant	Social Impact Assessment and Consultation studies	
Sophie Walker Consultation and Strategic Communications	Brisbane	Social, Consultation, Economic and Cultural Heritage – Technical Leader	Sophie has managed a range of consultation plans for impact assessment processes, working closely with Social Impact Assessment teams where appropriate. Sophie is skilled in presenting complex issues and technical concepts to stakeholders in a clear, concise way and regularly facilitates workshops and meetings in urban, rural and regional areas.
WASTE MANAGEMENT, HEALTH AND SAFETY AND HAZARD RISK			
Prashant Joshi Environmental Engineer / Safety	Brisbane	Health and Safety, Hazard and Risk – Technical Leader	Prashant is an environmental, health, safety professional with experience in environmental impact assessments, risk assessments, emission monitoring, environmental health and



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			safety audits and management systems. He has worked across a variety of industries including mining, chemical, petroleum, pharmaceutical, automobile, electronic, power generation, seaport, roads and dams. He has been involved in assessment, document preparation, project management, technical review and community consultation. Prior to joining GHD, Prashant was working for organisations overseas.
Alison Marszalek Senior Environmental Engineer	Gold Coast	Waste Management – Technical Leader	Alison leads GHD's Environment & Planning Team on the Gold Coast. She has 10 years experience in consulting to the local, state and federal government, the waste management industry, as well as the property development sector. Alison's key technical skills are in the area of strategic waste planning, environmental management of waste facilities, contaminated land management, environmental assessment and management for infrastructure projects and environmental management systems.
PLANNING, APPROVALS, QLD LEGISLATION AND EPBC ACT			
Julie Keane Principal Environmental Impact Manager	Brisbane	Planning, Approvals, QLD Legislation and EPBC Act - Technical Leader	Julie is a Principal Impact Assessment Manager with over twelve years experience spanning all aspects of environmental impact assessment, regional planning and regional development. She has worked on a number of significant environmental impact studies, managing multi-disciplinary teams and handling all aspects of land use, social impacts, community consultation and legislative issues.
CIVIL INFRASTRUCTURE			
Scott Vivian Manager - Marine Group	Brisbane	Construction and Infrastructure – Technical Leader	Scott has 11 years broad based experience in delivery of marine projects, both from a technical and design management perspective. His experience includes design management, structural assessment, coastal process assessment, marine temporary works and dredging works. Scott heads up the Marine Service Group in Brisbane, incorporating marine infrastructure, dredging and coastal works sub disciplines.
Paul O'Keefe Senior Coastal Engineer	Brisbane	Coastal Processes – Technical Leader	Paul has over 30 years of experience in coastal management and engineering. Experience with the Queensland Department of Harbours and Marine, Environmental Protection Agency (EPA) and the Beach Protection Authority, provides a broad background of experience from hands on development of field investigations, monitoring



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			<p>programs and numerical modelling of coastal processes through to assessment of applications for development approvals in the coastal zone and development of coastal management policies and legislation.</p> <p>Working for GHD, Paul has been involved with a wide range of coastal projects encompassing, coastal processes, coastal hazards, erosion protection and sediment movement, coastal instrumentation and monitoring, breakwater modelling, and managing coastal approvals applications.</p>
Andre Bartels Marine Engineer	Perth	Wave Modelling – Technical Leader	<p>Andre has over 20 years of experience in marine and coastal engineering works, including design and construction for projects throughout Australia and Africa in addition to works in the United Arab Emirates, Bahamas and Pakistan. His principal area of expertise is in protective structures utilising both rock and concrete armour units.</p>
DREDGING AND RECLAMATION			
Onno de Vos Dredging and Reclamation Design	Sub-consultant	Dredging and Reclamation – Technical Leader	<p>Onno De Vos recently retired as Managing Director of Dredeco, the Australian arm of Dredging International, one of the world's largest international dredging contractors. Onno has spent the last 25 years of his career in dredging working in Australia and has vast experience of dredging works, including hands on experience in dredging works in Townsville port.</p>
TRAFFIC AND TRANSPORT			
Gavin Nicholls Transport Planner	Brisbane	Traffic and Transport - Technical Leader	<p>Gavin has experience in most facets of traffic engineering including impact assessments, intersection analysis and design, site access and layouts and master planning. Gavin has developed models in Paramics micro simulation and has also been involved in bicycle and pedestrian planning and bicycle path audit projects.</p>