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31 Core study team

Details of the core study team for the assessment of the project have been included below.

Table 31.1 Core study team

Position	Organisation	Qualifications and technical expertise
Chris Webb		
Program Manager Approvals	ACTEW	QualificationsBachelor of Applied Science, University of Canberra.ExperienceChris is a senior adviser on proposal planning and development, environmental management and government regulations with over 20 years experience. He joined ACTEW in 2004 as the Manager of the Planning Program for ACTEW's Future Water Options Study, before being appointed Policy and Planning Advisor in 2005. Chris is responsible for long term water supply planning, total water cycle management in urban planning and network protection.Chris has extensive experience working with the ACT Government in senior management, policy and planning positions, including as Project Director of the
Graham Costir	ו	
Owners Project Manager	ACTEW	 Qualifications Bachelor of Engineering (Civil), Monash University. Graduate Diploma Municipal Engineering & Management, Deakin University. Master Engineering Science (Environmental), Melbourne University. Experience Graham is an experienced project manager with over 30 years experience in a broad range of municipal and water related projects. He has held numerous senior positions in local government and water utilities, including appointments to water utility boards. During 2000-01, he was appointed by the United Nations to manage the re-establishment of water and sanitation services throughout East Timor. In his more recent consulting work, Graham has led a number of multi-discipline teams to prepare, implement, monitor or evaluate numerous water related projects; including projects for water resource management, water sector investment strategies, infrastructure master planning and institutional development. Since 2004, Graham has had a significant, although intermittent, involvement in the preparation of ACTEW's Future Water Options Program, including the preparation of technical reports and management of the M2G Preliminary Design Study during 2007-08. Responsibilities Graham provided expert review of the EIS.

Position	Organisation	Qualifications and technical expertise
Peter Woodrov	N	
Project Manager	John Holland Pty Ltd	QualificationsBachelor of Engineering (Civil), University Of Queensland.Member, Australian Institute of Project Management.ExperiencePeter has 38 years experience in the delivery of complex, major projects in the ACT. Significant projects include: Googong Dam, Telstra Tower, Defence Signals Directorate, Beijing Embassy, Geoscience Australia, New Delhi High Commission, HQJOC and the National Portrait Gallery. Peter was also Building Controller for the ACT from 1992 to 1995.Responsibilities Peter provided expert review of the EIS.
Gavin Morriso	n	
Design Manager	GHD Pty Ltd	QualificationsBachelor of Engineering (Civil) (Hons), Queensland Institute of Technology.Corporate Member, The Institution of Engineers.Member Australian Water and Wastewater Association.Member College of Civil Engineers, NPER-3.ExperienceGavin is a Principal Civil Engineer responsible for oversight of the GHDCanberra office's Civil Engineering Service Groups including Transportation,Urban Development and Water. He has an Honours degree in Civil Engineeringand 24 years experience in a broad range of engineering projects.Gavin has extensive experience in the investigation, planning, conceptdevelopment, design documentation, tendering and construction phase servicesfor civil engineering infrastructure projects and land development. Gavin is thedesign manager for the Murrumbidgee to Googong Water Transfer.ResponsibilitiesGavin provided expert advice to inform the preparation of the EIS.

Position	Organisation	Qualifications and technical expertise
Pieter van der	Walt	
Approvals Advisor and EA/EIS document team leader	CBRE Pty Ltd (for ACTEW)	QualificationsBachelor of Town and Regional Planning, University of Pretoria, South Africa.Bachelor of Geographic Information Systems (Hons), University of Pretoria, South Africa.ExperiencePieter is a town planner with over ten years experience in urban and regional planning, CAD design and Geographic Information Systems.Pieter has worked both in Australia (ACT and NSW) and overseas, applying his skills and experience to the following areas of specialisation:• Strategic planning assessments and environmental impact assessments;• Statutory planning and development approvals; and• Planning assessments in support of major planning processes.ResponsibilitiesPieter was responsible for the preparation of the EIS
lan Ross		
Environmental advisor	Manidis Roberts Pty Ltd (for ACTEW)	QualificationsPhD, Cambridge University, UK.Masters Applied Science in Pollution Control, University of NSW.Bachelor Engineering (Hons) in Chemical Engineering, University of NSW.ExperienceIan has more than 30 years' experience in environment, health and safety both in Australia and overseas. He began his career with the NSW Government negotiating environmental approvals for major industrial expansions in the mining, energy and aluminium industries.He then worked as the corporate EHS manager for Alcan Australia Limited and as regional consultant for Alcan Nikkei Asia, based in Kuala Lumpur. In these roles he was responsible for providing guidance on a wide range of EHS issues, including planning approvals, energy intensity of aluminium products, greenhouse and general air emissions, hazardous waste generation, storage and disposal, water discharges, EHS management systems, legal compliance reviews, behavioural safety, due diligence and land contamination.In his role with Manidis Roberts Ian has managed the environmental impact statement and approvals for a \$2 billion expansion of the Gove Alumina Refinery and was seconded as Operational Excellence Champion for Caltex Australia Oil Refineries. He also provided service to a wide range of multi national organisations including Caltex, BP, Raytheon, Sino Gold, Apple Computers, Akzo Nobel, Alcoa, Star Track Express, Tomago Aluminium and W R Grace.Responsibilities Ian was responsible for the preparation of the EIS.

Position	Organisation	Qualifications and technical expertise
Cat Quigley		
Planning advisor	CBRE Pty Ltd (for ACTEW)	QualificationsMasters (Hons) Town Planning, Heriot Watt University, .Member of Royal Town Planning Institute.ExperienceCat is a fully accredited town planner with over eight years experience in environmental assessment, town planning and development applications in Australia, Scotland and Ireland.Cat has a sound knowledge of environmental planning legislation and her career highlights include the planning and assessment of 100 renewable energy projects in Scotland and the enlargement of the Cotter Reservoir in Canberra.Responsibilities Cat was responsible for the preparation of the EIS.
Kathryn Baker		
Project Officer	CEENA Pty Ltd (for ACTEW)	QualificationsBachelor Industrial Design (Hons), University of Canberra.Graduate Certificate Environmental Engineering Management, University of Technology Sydney.ExperienceKathryn has been employed within the water industry since 2006. During this time she has worked on the planning and approval of large scale water infrastructure, the preparation of environmental impact assessment documentation, management of specialist sub consultants and the development and staging of community engagement programs, and facilitated ongoing discussions between ACTEW, the ACT Government, other key stakeholders,
Helen Leayr		
Community Engagement and Stakeholder Management Approvals Manager	Manidis Roberts Pty Ltd (for ACTEW)	QualificationsBachelor of Commerce, Australian National University.ExperienceHelen has over 15 years experience in communications and stakeholder management within the ACT region. She has worked previously as Executive Director of the Canberra Business Council and owns a Canberra based consultancy business, The Communication Link. Helen has managed a large number of community engagement programs, including community consultation for a range of ACT Government authorities including ACTPLA and TAMS. Helen has worked with Manidis Roberts and ACTEW Corporation on Water Security Major Projects since 2007 as the Community Engagement of Stakeholder Management Manger (Approvals).Responsibilities Helen was responsible for the preparation of the EIS.

Position	Organisation	Qualifications and technical expertise			
Adina Cirson	Adina Cirson				
Community Engagement and Stakeholder Management Leader	Manidis Roberts Pty Ltd (for ACTEW)	 Qualifications Bachelor of Communication (Public Relations) University of Canberra. Experience Adina has a solid background in public relations, community engagement and stakeholder management and the communication of environmental issues, shown though a range of key roles including: Senior Advisor Senator Kate Lundy - Senator for the ACT; Senior Advisor on Environment, Climate Change, Energy and Water Advisor to ACT Chief Minister Jon Stanhope; Community Liaison and Communications Manager for the Tradies Group; and Community Engagement and Stakeholder Management Leader for the Murrumbidgee to Googong Water Transfer. In her current role Adina is responsible for developing and implementing communication, consultation and community relations strategies for the Murrumbidgee to Googong Water Transfer. Adina facilitates the seamless flow of information from ACTEW to the community to ensure they are aware of potential risks of the preferred project and the management and mitigation measures proposed to minimise their impacts. Responsibilities Adina was responsible for the preparation of the EIS. 			
Katrina Smallw	vood				
Environmental advisor	GHD Pty Ltd	QualificationsBachelor of Applied Science, University of Western Sydney.ExperienceKatrina is a Senior Environmental Scientist with GHD's Environmental Planning Group. Katrina has experience in environmental impact assessment for a range of projects including large scale infrastructure. She is experienced in project management, management of sub-consultants, consultation and preparation of environmental impact assessments including Statement of Environmental Effects (SEE), Review of Environmental Factors (REF) and Environmental Assessment Report's (under Part 3A of the Environmental Planning and Assessment Act 1979). Katrina has an understanding of environmental management issues and legislative requirements.Responsibilities Katrina was responsible for the preparation of the EIS.			

Position	Organisation	Qualifications and technical expertise	
Michael Macki	Michael Mackintosh		
Project Manager Construction M2G	John Holland Pty Ltd	QualificationsBachelor of Engineering (Civil), Queensland Institute of Technology.Post Graduate Diploma of (Building) Project Management.ExperienceMichael has over 30 years experience in major projects associated highway construction, canal development , coal and gold mine infrastructure, coal unloading facilities, railway construction projects Queensland and Western Australia and large bore water pipelines for the Western Corridor Pipeline Alliance Queensland. Recently Michael was engaged as Alliance Manager for the Western Pipeline Alliance which delivered re used water from Bundamba Water Treatment Plant to Wivenhoe Dam and Tarong Power Station in total 120Km of large bore water pipeResponsibilitiesMichael provided expert advice to inform the preparation of the EIS.	
Mike Rodd			
Lead Pipeline Design Engineer	GHD Pty Ltd	QualificationsBE Eng (Hons) MIEAust, AWA, MICE (USA)Experience35 years of engineering design in water supply works including pipelines, pumping stations and pipeline hydraulics, for the public and private sectors in Australia and overseas.ResponsibilitiesMike provided expert advice to inform the preparation of the EIS.	
Clinton Furma	n		
Senior project engineer	John Holland Pty Ltd	 Qualifications Diploma Mechanical Engineering (WITS Technikon). Master Of Environmental Engineering Management, University of Technology Sydney. Experience. Clinton has had 14 years experience working in the mining, petrochemical and water treatment industry. He has had various engineering and management roles working in all facets of the construction industry. Some of the major projects he has successfully completed are The Liverpool to Ashfield Pipeline, Caltex Refinery \$300m upgrade, Cape flats (Cape Town) sewage treatment plant upgrade and Amandelbult Platinum Mine 300 million tonne per month expansion project (South Africa). Responsibilities Clinton provided expert advice to inform the preparation of the EIS. 	

32 Specialist study team

The specialists named in Table 32.2 are the lead advisors responsible for assessment of the preferred project.

Table 32.1 Qualifications of lead advisors for responsible for assessment of the project (EIS/EA documentation input, management and preparation).¹

Position	Organisation	Qualifications and technical expertise
Tim Purves		
Water Resources Engineer	ActewAGL Pty Ltd.	QualificationsBachelor of Engineering (Civil), University of Newcastle.Bachelor of Arts, University of Newcastle.ExperienceTim is a senior planning engineer with six years experience in water and sewer planning roles at ActewAGL. During this time he has worked on the Future Water Options studies and was ActewAGL's lead water resources modeller during the Future Water Planning program. Other projects Tim has worked on include a review of Canberra's water restrictions scheme and assessments of the impact that environmental flow changes will have on ACT water security. He has also worked on a number of sewer modelling and odour analysis studies at ActewAGL.ResponsibilitiesTim provided advice on the impact of the project on flow in the Murrumbidgee
		River and Burra Creek (Appendix C).
Guy Lampert Fluvial Geomorphologis t	GHD Pty Ltd	QualificationsBachelor of Science, Macquarie University.ExperienceGuy Lampert is a geomorphologist with over ten years experience in the assessment, rehabilitation and management of fluvial and coastal landscapes. He has formal training in geomorphology, GIS, catchment management and river rehabilitation techniques. Guy has significant experience in the assessment of river form and function over a range of environments both within Australia and internationally. This has provided Guy with a practical understanding of form process associations and the variables that control fluvial systems over various spatial and temporal scales. Guy has applied this understanding to projects concerned with impact prediction and assessment, multi-disciplinary river rehabilitation planning and design, setting river management priorities and the development of monitoring programs.Responsibilities Guy was responsible for the preparation of the fluvial geomorphology component of the EA/EIS document (Appendix D).

¹ The lead advisors listed were responsible for assessment of each specialist study as listed and may have required contributions of other members of their team. Details of other contributors may be found in the relevant appendices listed in Table 3.1.

Position	Organisation	Qualifications and technical expertise
Andy Spate		
Manager	Optimal Karst Management	QualificationsBachelor of Applied Science, University of Canberra.ExperienceSelf-employed environmental consultant specialising in cave and karst, landscape rehabilitation and protected area management. Has carried out consultancy projects in Vietnam. South Korea, Papua New Guinea, New Zealand, Malaysia and in all Australian states and territories (including
Timothy Martin		
Aquatic Ecologist	Biosis Research Pty Ltd.	Qualifications Bachelor of Science, University of Canberra. Experience Timothy Martin is an aquatic ecologist with the Sydney Resource Group of Biosis Research with two years experience in marine and freshwater ecology in south-eastern Australia. He has experience in conducting aquatic impact assessments, biological monitoring programs, and general aquatic and riparian zone surveys across New South Wales in a wide range of freshwater and estuarine environments. Timothy has been involved recently in several projects related to environmental impact assessments of dams and weirs and environmental flow requirements within NSW and ACT. He has a strong background in river health assessment and monitoring (AUSRIVAS and SIGNAL2) and has several years experience in sampling and identifying macroinvertebrates from a range of catchments across New South Wales. He has worked as the laboratory manager for the University of Technology Sydney's Rapid Bioassessment Facility, in which he assisted with in-situ and ex-situ aquatic and terrestrial research studies. In this role he gained experience in liaison with external contractors and clients. Timothy also has experience in terrestrial invertebrate biodiversity assessments, sampling methodologies, data analysis and report writing. Timothy has worked as a volunteer for the ichthyology section at the Australian Museum where he undertook identification of fish sample collections and catalogued the collection. Responsibilities Timothy was responsible for the assessment of aquatic ecology issues (Appendix G).

Position	Organisation	Qualifications and technical expertise
Aaron Troy		
Aquatic Ecologist	Biosis Research Pty Ltd.	 Qualifications Bachelor of Science, Environmental Management and Ecology (Hons). Experience Aaron Troy is an aquatic ecologist with the Sydney Resource Group of Biosis Research with over seven years experience in aquatic ecology and related fields. He has a sound understanding and knowledge of aquatic environmental issues, management and legislation in Victoria and NSW. Aaron is experienced in aquatic assessments, surveys, monitoring, research and management. Aaron's field experience covers freshwater lotic and lentic environments throughout catchments of NSW and Victoria, with a particular focus on fish, crayfish, macroinvertebrates and water quality, but also broadly encompasses other aquatic fauna. Aaron is widely experienced in investigating the current values (e.g. habitats, threatened species and communities) and condition of aquatic ecosystems, particularly wetlands, together with assessing the existing and potential impacts of anthropogenic sources of disturbance. Responsibilities Aaron was responsible for the aquatic ecology assessment addendum to Appendix G).
Tom O'Sullivan		
Terrestrial Ecologogist	Biosis Research Pty Ltd	QualificationsBachelor of Zoology/Physical Geography, University of New England.Master of Wildlife Management, Macquarie University (ongoing).Certificate of Environmental Management, NSW TAFE.ExperienceTom is the Manager of the Canberra Resource Group of Biosis Research.Tom is also an Ecologist with over 15 years experience in the identification ofterrestrial flora and fauna in a range of locations across NSW withconsiderable experience in NSW Southern Tablelands and ACT, SydneyBasin and South Coast regions. He has worked both as a projectmanager/project officer on a wide variety of consulting projects. Tom hasspecialist skills in fauna survey techniques applied to terrestrial and arborealmammals, bats, birds and herpetofauna (frogs and reptiles) and mark-recapture and radio-tracking studies of arboreal mammals. He hasundertaken a number of studies in the NSW Southern Tablelands and ACT,including targeted surveys for Grassland species, including the GrasslandEarless Dragon, Pink-tailed Worm Lizard, Golden Sun Moth and woodlandbirds. Tom also has considerable botanical skills and has a goodunderstanding of vegetation of south-eastern NSW, including ACT and NSWSouthern Tablelands.ResponsibilitiesTom was responsible for the undertaking of terrestrial field surveys andcompilation reports for the EA/EIS (Appendix H).

Position	Organisation	Qualifications and technical expertise
Kelvin Officer		
Cultural Heritage Team Leader	Navin Officer Heritage Consultants Pty Ltd.	QualificationsBachelor of Arts (Hons) Australian National University.PhD Australian National University.ExperienceKelvin is a Senior Cultural Heritage Specialist andDirector of Navin Officer Heritage Consultants Pty Ltd. Kelvin has been activewithin the discipline of Australian archaeology for 25 years and has worked inthe field of consulting archaeology for 22 years. During this time he has beeninvolved in over 800 projects, acting as principal consultant and/or projectmanager.Kelvin has a broad range of cultural heritage experience and archaeologicalskills in both indigenous and historical fields. His experience includes fieldsurvey, excavation, site recording, Aboriginal and stakeholder liaison, andcultural significance assessment.
		Kelvin has recently project-managed the cultural heritage components of the Enlarged Cotter Dam EIS, Priority One indigenous heritage works, and Priority One- Four historical heritage works. Responsibilities Kelvin was responsible for the undertaking of cultural heritage surveys and compilation reports for the EA/EIS (Appendix I).
Lindsay Smith	1	
Cultural Heritage Historical Specialist	Navin Officer Heritage Consultants Pty Ltd.	QualificationsBachelor of Arts, University of New England.Graduate Diploma in Arts (Prehistory), Australian National University.PhD, Australian National University.Visiting Fellow: School of Archaeology and Anthropology Faculty of Arts, College of Arts and Social Sciences Australian National University. Experience Lindsay is a Senior Cultural Heritage Specialist with Navin Officer Heritage Consultants Pty Ltd and a Visiting Fellow at the School of Archaeology and Anthropology, Faculty of Arts, College of Arts and Social Sciences, Australian National University.His role includes oversighting of and participation in all aspects of both indigenous Australian and historical archaeology heritage projects undertaken for a range of Federal and State government agencies, private companies and individuals throughout NSW and the ACT.Lindsay has recently been involved in Enlarged Cotter Dam and
		Murrumbidgee to Googong heritage assessments. Responsibilities Lindsay was responsible for the undertaking of cultural heritage surveys and compilation reports for the EA/EIS (Appendix I).

Position	Organisation	Qualifications and technical expertise
James Earle		
Principal	GHD Pty Ltd	Qualifications
Environmental		Master of Environmental Management, University of NSW
Scientist		Bachelor of Geological Engineering, Royal Melbourne Institute of Technology.
		Experience
		James is an Environmental Engineer with over eight years of experience in performing multi-disciplinary environmental management projects. He has solid experience in the areas of environmental impact assessment, waste management, environmental management systems and plans, contaminated land investigations, soil and water assessments and Hazardous substance audits. James has held positions with consulting services organisations and government departments in Australia and the UK.
		Responsibilities
		James was responsible for providing technical advice, overseeing, and reviewing the soil, contamination and groundwater assessment.
Ruthy Hudson	1	
Environmental	GHD Pty Ltd	Qualifications
Scientist		Bachelor of Environmental Science (Advanced) (Hons), University of Wollongong.
		Experience
		Ruthy is an Environmental Scientist with has 2 years experience in the preparation of environmental impact assessments, including Review of Environmental Factors and Environmental Assessments, and assessments of soils, surface water, groundwater, contaminated land and visual impacts. She also has experience in ecological constraint mapping, weed mapping, field data collection and GIS.
		Responsibilities
		Ruthy was responsible for the preparation of the soil, contamination and groundwater assessment.

Position	Organisation	Qualifications and technical expertise
Scott Graham		
Lead	GHD Pty Ltd.	Qualifications
Landscape Architect		Bachelor Of Applied Science Landscape Architecture, University Of Canberra.
		Bachelor Of Applied Science Environmental Design, University Of Canberra.
		Experience
		Scott Graham leads GHD's landscape architectural team and is an experienced professional with wide ranging skills in Landscape Architecture, Environmental Planning and Urban Design gained over the past 20 years. Scott has extensive experience in multi-disciplinary teams that provides him with skills to undertake complex design projects.
		Scott has lead the project scope definition and resource planning as well as the scheduling and management of workload for the landscape architectural team in a variety of complex infrastructure projects. Scott is motivated to establish the early involvement of the Landscape Architectural team to be effective in driving the environmental planning and design outcomes that are ultimately the fundamental legacy of large infrastructure projects
		Responsibilities
		Scott was responsible for leading the Landscape and Visual Impact assessment (Appendix K).
Kate Milburn	1	
Senior	GHD Pty Ltd.	Qualifications
Landscape		Postgraduate Diploma in Planning and Design, University of Melbourne.
Architect - Landscape and		Master of Landscape Architecture, University of Melbourne.
Visual Impact		Graduate Diploma in Environmental Science (Conservation Biology & Biodiversity), University of Melbourne.
		Experience
		Kate is a Registered Landscape Architect with over eleven years project experience gained in Australia, the United Kingdom and China. Her focus is in the environmental planning & design process and application with experience in both managing and forming part of large multidisciplinary teams on transport infrastructure projects (road, rail & tram). Kate is trained in water sensitive road design (WSRD) techniques through her project experience, post-graduate qualifications in Landscape Architecture and Environmental Science, and through her professional registrations with AILA, IEMA & EIANZ.
		Responsibilities
		Kate was responsible for preparation of the Landscape and Visual Impact assessment (Appendix K).

Position	Organisation	Qualifications and technical expertise	
Tim Hyland			
Landscape and Visual Assessment Consultant.	GHD Pty Ltd.	Qualifications Bachelor Of Applied Science Multimedia Cartography, Royal Melbourne Institute of Technology. Experience	
		Tim is a Landscape and Visual Assessment Consultant and Graphic Designer with the Landscape Architecture and Urban Design group. He is also a Lecturer in Multimedia Cartography and Geographic Visualisation at RMIT University and has extensive experience in the fields of spatial science, graphic design and as a professional photographer.	
		Tim has worked on a range of Landscape and Visual Impact Assessment (LVIA) projects, producing LVIA reports, 3D models, detailed maps and interpretive diagrams, photographic work and photomontage images. Responsibilities	
		Tim was responsible for the Landscape and Visual Impact Addendum assessment (Appendix K).	
Evan Milton			
Senior Noise and Vibration Consultant	GHD Pty Ltd	Qualifications Bachelor of Engineering (Aerospace), University of New South Wales.	
Contourtaint		Experience Evan has over 5 years experience in the fields of air, noise & vibration. Evan has extensive experience in static & dynamic finite element analysis (FEA) applications as well as computational fluid dynamics (CFD). Evan has experience in mining vehicle design & attenuation, industrial noise, vibration assessments & building acoustic design. He has extensive experience Cadna-A & SoundPLAN environmental noise modelling softwares.	
		Responsibilities	
		Evan was responsible for the Noise and Vibration impact assessment (Appendix L).	
Craig Evenden			
Senior Noise	GHD Pty Ltd	Qualifications	
and Vibration		Bachelor of Science (Physics Major), University of Newcastle.	
Consultant		Member of Australian Institute of Physics (No. 8352).	
		Experience	
		Craig has over 8 years experience in acoustics and vibration engineering. He has gained extensive experience in environmental noise monitoring and modelling, occupational health and safety noise exposure, mobile plant and aircraft noise emission testing and control, noise control design, industrial noise, whole body vibration, blast monitoring and architectural acoustics.	
		Responsibilities	
		Craig was responsible for the Noise and Vibration impact assessment Addendum (Appendix L).	

Position	Organisation	Qualifications and technical expertise	
Greg Collins	Greg Collins		
Principal Noise and Vibration Consultant	GHD Pty Ltd	QualificationsBachelor of Science (Environmental Science) Washington State University.MBA, Newcastle University.ExperienceGreg is a principal environmental scientist with GHD who is primarily involved in projects in the fields of acoustics and air quality. Greg is the Air & Noise Service Line Leader for GHD.Greg has over 15 years of experience in noise assessments for environmental impact statements, development and rezoning applications, industry, road traffic noise, machinery noise testing and environmental noise monitoring.Responsibilities	
		Greg was responsible for the peer review and project direction of the Noise and Vibration impact assessment and addendum (Appendix L).	
Stella Whittaker			
Principal Consultant - Sustainability	GHD Pty Ltd	 Qualifications Master of Science, European Environmental Policy & Regulation, Lancaster University. Bachelor of Environmental Science (Hons - 2:1), Bradford University. Experience Stella is a sustainability specialist with over 27 years experience in the United Kingdom, Europe and Australia. Throughout her career she has had extensive experience in climate change. At GHD Stella is the Global Service Line Leader for Sustainability and the lead Principal Consultant responsible for GHD's climate change impacts and adaptation work globally. During her time at GHD she has facilitated climate change risk assessment and adaptation planning processes for a large number of clients. Responsibilities Stella was responsible for the technical review of the climate change risk assessment (Appendix M). 	

Position	Organisation	Qualifications and technical expertise
Andrew Rode		
Environmental Engineer	GHD Pty Ltd	QualificationsBachelor of Environmental Engineering (Hons).ExperienceAndrew is an Environmental Engineer and is working in GHD's Sustainability and Climate Change Group. Andrew has over three years of professional experience. His core experience has been in water supply system planning/modelling, and wastewater treatment and reuse for projects within
Sue Trahair		
Principal Engineer	GHD Pty Ltd	QualificationsBachelor of Engineering (Chemical) (Hons), University of Sydney.ExperienceSue is a principal engineer with GHD. She has over 25 years experience in environmental and greenhouse auditing and verification, wastewater treatment, solid waste management, odour control and hazardous waste treatment. Sue has been actively involved in conducting environmental audits

Position	Organisation	Qualifications and technical expertise
Andrew Maddoo	ks	
Senior Consultant	GHD Pty Ltd	QualificationsDoctor of Philosophy, University of Sydney.Bachelor of Engineering (Chemical) (Hons), University of Newcastle.Bachelor of Science, University of Newcastle.ExperienceAndrew is a senior consultant within GHD's multidisciplinary SustainableDevelopment group and has experience in life cycle assessments,greenhouse gas auditing, emerging renewable energy and sustainabletechnologies, materials selection and life cycle sustainability issues related tomajor infrastructure.Andrew has worked with stakeholders across property, mining, transport, civilinfrastructure and manufacturing sectors to understand Australia's domesticgreenhouse gas reporting requirements of National Greenhouse and EnergyReporting Act 2007 and to assist in the planning approval of new projects.Andrew has provided strategic advice on greenhouse gas reductionmechanisms, sustainability initiatives and the implications and opportunities ofthe Australian Government's proposed Carbon Pollution Reduction Scheme.ResponsibilitiesAndrew was responsible for the preparation of the greenhouse gasassessment (Appendix N).
Jill Hannaford		
Manager Community Consultation and Social Planning	GHD Pty Ltd.	QualificationsBachelor of Applied Science (Applied Economic Geography) (Hons), University of NSW.Master of Urban and Regional Planning, University of Sydney.ExperienceJill is a planner with over 20 years experience in the fields of social and community planning. Jill has worked for both the public and private sectors and has always had an interest in social planning. Throughout her career she has undertaken a very wide range of social planning projects from independent social impact assessments, community development projects, community involvement strategies and socio economic assessment for large infrastructure projects. Her experience has also included the incorporation of social planning principles in strategic planning studies. Jill's understanding of social planning principles and her training in economic geography and town planning have lead to her being a social planner with a broad grasp of the issues affecting community planning specialist and is an active member of the Social Planning Chapter of the Planning Institute of Australia.ResponsibilitiesJill was the peer reviewer of the social impact assessment (Appendix O).

Position	Organisation	Qualifications and technical expertise
Anne Mithieux		
Senior Social Planner	GHD Pty Ltd.	QualificationsBachelor of Science (Hons), University of NSW.Master of International and Community Development, Deakin University.ExperienceAnne is a senior social planner with over 12 years experience in social impact assessment, social planning, community development and public participation across Australasia. Anne has experience with large infrastructure including oils and gas, transport, industrial and energy projects which have commonly
Dan Deere		and addendum (Appendix O).
Dan Deere Water Quality Scientist	Water Futures Pty Ltd.	QualificationsBachelor of Science (Hons) in Biotechnology, Leeds University.MBA in Technology Management, La Trobe University.PhD in Waterborne Pathogen Fate and Transport, Liverpool University.ExperienceDan Deere is a water quality scientist with Water Futures Pty Ltd, specialising in quantitative and water cycle risk assessment and risk management planning. He has worked in scientific roles in the UK, Sydney and Melbourne as an academic research fellow and consultant, specialising in microbial water quality monitoring and process validation. More recently, he has worked in technical management roles in water utilities in Melbourne (South East Water) and Sydney (Sydney Catchment Authority) and was the part-time CRC for Water Quality and Treatment Catchments Research Program Leader for 7 years.Dan has provided training in the ADWG Framework, Water Safety Plans (WHO), the Australian Guidelines for Water Recycling Framework and Hazard Analysis and Critical Control Points (HACCP) across Australia, Asia and Europe.ResponsibilitiesDan was responsible for the preparation of Quantitative Risk Assessment for drinking Water (Appendix P).

Position	Organisation	Qualifications and technical expertise
Dr Laslo Nagy		
Principal Consultant	Atech Group (for ActewAGL Pty Ltd)	QualificationsBachelor of Science (Hons), Australian National University.PhD (emphasis on environmental management, water management and statistically assessment), Australian National UniversityExperienceLaslo has over 20 years experience in the Water Industry, as a consultant with the Atech Grop for ActewAGL. He has worked on numerous large environmental and water management projects for a range of clients including Sydney Water, ACTEW, ActewAGL, Murray-Darling Basin Commission,
		Department of Environment (Commonwealth), Department of Health (Commonwealth). He has worked on the Future water options study for ACTEW, and ActewAGL (during 2004-05), and then on the Future Water Planning Program for ACTEW and ActewAGL (during 2007-08). Laslo has had a key involvement in a range of consultancy reports and journal publications in the areas of: • Water management; • Water recycling; • Environmental management; • Threatened species and biodiversity; • Greenhouse gas emissions; • Risk assessment; and • Statistical assessment of environmental data. Responsibilities Laslo was responsible for preparing ActewAGL response to Murrumbidgee to
		Googong Water Transfer Public Comments (Appendix C2).
Mick Lyons	I	
Civil Engineer	GHD Pty Ltd	Qualifications Civil Engineering Diploma, Sydney Technical College. Experience
		Mick has over 35 years experience in the road engineering field, with over 20 years traffic engineering and transport planning experience. He is an accredited road safety auditor. Responsibilities
		Mick was responsible for the preparation of construction traffic assessment and addendum (Appendix Q).