

31. STUDY TEAM

The following individuals contributed to the preparation of the Surat Gas Project Environment Impact Statement (EIS). This report draws on their work and the contributions of these organisations are gratefully acknowledged.

31.1 Arrow Energy Pty Ltd

Arrow Energy Pty Ltd (Arrow) is the proponent for the proposed project. The Arrow team listed below in Table 31.1 worked in collaboration with Coffey Environments (Australia) Pty Ltd (Coffey Environments) to assist in preparing this report. Many other various departments of Arrow contributed towards this report by developing such elements as the project description, reviewing specialist studies and EIS chapters. These departments are as follows:

- Environments.
- Water.
- EIS Team.
- Exploration.
- Petroleum Engineering.
- Drilling.
- Development.
- Operations.
- LNG.
- Land.
- Indigenous Relations.
- Legal.
- Community Relations.
- Finance.
- Contracts and Procurement.
- Human Resources.
- Health, Safety and Environment.
- Engineering and Commercial.

Table 31.1 Arrow team

Team Member	Position	Qualifications	Experience (Years)
Carolyn Collins	GM Environment & Water	BSc	18+
Paul Neilson	EIS Manager	BSc (Geo Science), GradDipEd	15+
Gerard Coggan	EIS Strategic Advisor	BE (Civil and Environmental), MEng (Engineering Management), DipProjMgmt	15+
John Eddington	EIS Project Manager	BSc (AES)	20+
Fergal Convery	Senior Project Engineer/Technical Advisor	BEng (Civil), MSc (EnvSc)	13+

Table 31.1 Arrow team (cont'd)

Team Member	Position	Qualifications	Experience (Years)
Jeroen Van Dillewijn	Manager Water Access, Approvals & Water	MSc	18+
David Wolf	Project Manager IFL Development Surat LNG Project	QBE	32+
Chris Wheeler	Senior Project Manager Power Supply Power Generation	BEng, BSc	32+
Brian O'Donnell	General Manager Ramp Up Operations	BEng (Hons) (Civil)	
Brad Pepler	Senior GIS Specialist LNG	Grad Dip Comp/RASVY Carto Deg	38+
Jodhi Rutherford	Indigenous Relations Manager	BA, LLB (Hons)	7+
Julian Leonard	Land Manager	BEng (Mechanical)	15+
Scott Sherriff	Water LNG Manager	BEng (Civil)	20+
Linda Wulf	EIS Coordinator	BA (LIS), BBus (HRM), Dip (LS)	14+
Shannon Kratzmann	EIS Coordinator	QBE	2+

31.2 Coffey Environments Pty Ltd

Arrow appointed Coffey Environments to prepare this EIS and conduct detailed impact assessments of the project. Coffey Environments prepared this report with the help of the individuals and specialist consultants presented in Table 31.2.

Table 31.2 Coffey Environments project team

Team Member	Position	Qualifications	Experience (Years)
<i>EIS program direction, management and reporting</i>			
Barton Napier	Project Director/EIS Author/former EIS Strategic Advisor	AscDipAppSc (Computing), CertTech (Survey and Mapping)	35+
Jessica Wiltshire	EIS Project Manager/EIS Author	BE (Hons) (Environmental), BSc (Zoology)	5+
Joanne Lockyer	EIS Author/former EIS Project Manager	MAppLaw (Environmental and Property Law), BA (History/Political Science)	10+
Christopher Doig	EIS Technical Advisor/EIS Author/Studies Coordination/former EIS Project Director	MEnvMgmt, BSc (Aus Env Studies)	20+
<i>EIS reporting</i>			
Allie Shaw	EIS Author	BSc, BComm, DipMgmt	3+
Amelia Davies	EIS Author	BSc (EnvSc), BForSc (Hons)	8+

Table 31.2 Coffey Environments project team (cont'd)

Team Member	Position	Qualifications	Experience (Years)
<i>EIS reporting (cont'd)</i>			
Cheryl Crumblin	EIS Author	BSc (Hons), MSc (EnvMgmt) in progress	11+
Christopher Mahoney	EIS Author	MURbRegPlan, BEc	11+
Erica Colley	EIS Author/Studies Coordination	BSc (Biology), MSc (EnvSci)	5+
Jane Visser	EIS Author	BSc (EnvSc), BA (Journalism)	10+
Jayne Rutter	EIS Author/Studies Coordination	GradCertSc (Groundwater Hydrology), BEnvMgmt (Hons)	10+
Kerryn Daly	EIS Author/Studies Coordination	BSc (Biodiversity and Conservation) (Hons Environmental Biology)	2+
Lucy Ambrosio	EIS Author	GradDip (EnvMgmt), BSc (Biology)	2+
Megan Beveridge	EIS Author	BSc (Hons) (Botany)	<1
Peter Lowik	EIS Author/Studies Coordination	BSc (Zoology and Ecology), BSc (Hons) (Geography)	<1
Renee Harvey	EIS Author/Studies Coordination	BSc (Hons)	8+
Susan Komuhangi	EIS Author	BEnvMgmt, MSc (Environmental Consultancy)	5+
Theresa Curcio	Former Studies Coordination	MURbEnvPlan, BEnvSc (Management and Policy)	3+
<i>GIS and graphics</i>			
Chapal Choudhury	GIS	MSc (Software Engineering)	5+
Felicity Thomson	Drafting	BA (Visual Arts & Design)	10+
Gareth Lewis	Drafting	BA (Hons) (Graphic Design)	6+
Grant Young	GIS	BGeomEng (Hons), BSc (Geology)	8+
Hanna Blaszkiewicz	Drafting	MEng	37+
Helen Unkovich	GIS	BSc	6+
Jason Oram	GIS/Drafting	BSc (Multimedia Cartography) in progress	10+

Table 31.2 Coffey Environments project team (cont'd)

Team Member	Position	Qualifications	Experience (Years)
<i>Editing and administration</i>			
Dean Jones	EIS Project Management Assistant	Not applicable	<1
Jill O'Neil	Finishing Editor	Not applicable	25+
Josephine Bant	Technical Editor	BSc (Geology)	15+

31.3 Specialist Consultants to Coffey Environments

The specialist consultants engaged by Coffey Environments to perform detailed impact assessments for the project are shown in Table 31.3.

Table 31.3 Specialist consultants

Team Member	Position/Qualifications	Experience (Years)
<i>3D Environmental – Terrestrial Ecology Impact Assessment #</i>		
David Fell	Principal Botanist AscDip (Applied Science)	25+
David Stanton	Principal Landscape Ecologist BSc (Geology)	18+
David Gooding	Principal GIS Analyst AscDip (Cartography) BA (GIS and Remote Sensing)	25+
<i>AEC Group Ltd – Economic Impact Assessment</i>		
Ashley Page	BAGecon (Hons)	12+
Kieron Lacey	BSc (Biochemistry), MBusEcon	7+
Peter Johnson	BEng (Hons) (Chemical), BEc (Hons), PhD (Economics)	10+
<i>Alluvium Consulting (Queensland) – Surface Water Assessment *</i>		
Rohan Lucas	Principal, Geomorphology and Environmental Engineering BE (Hons) (Environmental), BSc (Earth Sciences)	16+
Jason Carter	Principal, Natural Resources Management BA (Hons) (Environmental Studies)	21+
<i>Aquateco Consulting Pty Ltd – Aquatic Ecology Impact Assessment</i>		
Greg Vinall	Principal and Senior Ecologist (Limnologist) BSc (Hons) (Aquatic Science), PhD (Research)	17+
Mark Bantich	Ecologist and Environmental Manager BSc, BEnvSc (Hons), MEnvS	7+
Alex Langley	Principal Ecologist BSc (Hons)	12+
Tim Howell	Aquatic Ecologist BSc (Hons), PhD	15+

Table 31.3 Specialist consultants (cont'd)

Team Member	Position/Qualifications	Experience (Years)
<i>Cardno Eppell Olsen Pty Ltd – Road Impact Assessment</i>		
Shane Healey	Principal Traffic Engineer BE (Civil)	18+
Jeffery Baczynski	Traffic Engineer BE (Hons) (Civil) BCom	6+
Jessica Moller	Traffic Engineer BE (Hons) (Civil)	3+
Alex Williams	Engineering Drafter	4+
Richard Isted	Transport Planning BCM	5+
<i>Coffey Environments Pty Ltd – Groundwater Impact Assessment</i>		
Michael Blackam	Principal Hydrogeologist BAppSc (Environmental and Exploration Geology) (Hons FC) (Hydrogeology)	15+
Ben Petrides	Senior Hydrogeologist BSc (Geology and Chemistry) (Hons Earth Sciences), PhD (Hydrogeology)	8+
<i>Coffey Environments Pty Ltd – Geology, Soils and Landform Impact Assessment</i>		
Philip Mather	Principal Engineering Geologist BSc (Hons) (Geology)	20+
Charlotte Moore	Soil Scientist BSc (Soil Science), MAppSc (Environmental Science)	5+
Lucy Ellis	Chartered Geomorphologist BSc (Hons), MPh, PhD	15+
<i>Central Queensland Cultural Heritage Management Pty – Indigenous Cultural Heritage Assessment</i>		
Luke Goodwin	BA (Hons), PhD (Archaeology and History)	20+
<i>EDAW (AECOM) Australia Pty Ltd – Landscape and Visual Impact Assessment</i>		
Wendy Davies	Associate Landscape Planner BSc (Hons), DipLA	9+
Flora Wehl	Field/technical studies, Author BBltEnv (Landscape Architecture), GDLA, AILA	6+
Mark Blanche	MA, BA (Hons)	20+
Geoff Williams	GIS BAppSc (Multimedia Cartography)	6+
Mungorn Chaijaroenmaitre	3D modelling BA, MSc	12+
Michael Clarkson	BBE (LA), GradDip (LA)	15+
<i>Gilbert and Sutherland Pty Ltd – Agricultural Report</i>		
Michelle Foster	Author BAppSc (Resource Management)	5+
Neil Sutherland	Review BTchHAgr, PGDipLandWatMan, MScEnvMan	25+

Table 31.3 Specialist consultants (cont'd)

Team Member	Position/Qualifications	Experience (Years)
<i>Gilbert and Sutherland Pty Ltd – Agricultural Report (cont'd)</i>		
Phil Matthew	Author PhD(AgSc), MResSc, GradDip(Planning), BAGSc	30+
<i>Harrison Grierson Consultants Pty Ltd – Planning Assessment</i>		
Dylan Porter	Development Planning Manager BA (Hons) (Urban Studies and Town Planning), DipTP	10+
Ruth Cameron	Planner BA, MRRP (Master Regional and Resource Planning)	7+
Ryan O'Leary	Planner B RTP (Bachelor Regional and Town Planning)	6+
<i>Heritage Consulting Australia Pty Ltd – Non-Indigenous Cultural Heritage Impact Assessment</i>		
Allan Lance	Principal Archaeologist BA (Hons) (Archaeology)	31+
Lucia Clayton Martinez	Archaeologist BA (History) MA in progress	9+
Rhonda Harris	Archaeologist BSocStud (Hons), GradDip (Archaeology), BA (Hons)	12
<i>NRA Environmental Consultants</i>		
Martine Adriaansen	Environmental Scientist BAppSc (Hons)	5+
Anne-Marie Calvi	Environmental Scientist BEnvSc (Hons)	4+
Tim Anderson	Director and Principal Scientist BAGSc (Hons), MAgSc	26+
<i>Osmotic Ecology Pty Ltd</i>		
Mark Sanders	Principal Ecologist BAdvSc (Hons) (Zoology)	12+
Stewart MacDonald	Senior Ecologist BSc (Hons) (Wildlife Ecology)	8+
<i>PAE Holmes (Queensland Environment Pty Ltd) – Greenhouse Gas Assessment/Air Quality assessment</i>		
Benjamin McMahon	Principal Engineer BE (Hons) (Environmental)	10+
Matthew Goodfellow	BE (Hons) (Environmental)	9+
Chaim Kolominskos	Principal Engineer BE (Hons) (Environmental), MEnvMgmtPol	10+
Bethany Warren	PhD (Chemical/Environmental Engineering)	3+

Table 31.3 Specialist consultants (cont'd)

Team Member	Position/Qualifications	Experience (Years)
<i>Planager Pty Ltd – Preliminary Hazard and Risk Assessment</i>		
Karin Nilsson	Principal Risk Consultant BE (Chemical Engineering)	20+
Eugene McFarlane	Principal Consultant BE (Chemical Engineering)	26+
<i>Schlumberger Water Services (Australia) Pty Ltd – Numerical Groundwater Model</i>		
Gareth Price	Senior Groundwater Modeller BSc, MSc	10+
Eduardo de Sousa	Senior Groundwater Modeller BSc, MSc	10+
Melanie Bulliard	Senior GIS Specialist BSc	14+
<i>Sonus Pty Ltd – Noise and Vibration Impact Assessment</i>		
Chris Turnbull	Principal Acoustic Engineer MEngSc, BE (Hons) (Mech), MAAS	17+
Jason Turner	Associate Acoustic Engineer BE (Hons) (Mech), MAAS	20+
Matthew Dewhirst	Acoustic Engineer BE (Hons) (Mech)	8+
Moharis Kamis	Acoustic Engineer BE (Hons) (Mech), BMath & Comp Sc	5+
<i>URS Australia Pty Ltd – Social Impact Assessment</i>		
Chris Sunderland	Associate Sociologist and Study Manager BA (Sociology)	7+
Pat Vidler	Senior Social Scientist BE (Hons), MEngSc, MA	25+
Lucas Batton	Senior Social Scientist BEnvPlanning	6+
Lisa Stott	Senior Sociologist BComm, BSc (Economics and Geography)	7+
Melissa Collins	Senior Social Scientist BBus, BA (Economics and Asian Studies), MInt & Comm Dev	11+
<i>Other specialist consultants</i>		
Glen Garside	Project scheduler	7+

#3D Environmental engaged Mark Sanders and Stewart MacDonald of Osmotic Ecology Pty Ltd to assist with the preparation of the terrestrial flora and fauna assessment.

* Alluvium Consulting (Queensland) engaged Martine Adriaansen, Tim Anderson and Anne-Marie Calvi of NRA Environmental Consultants to assist with the preparation of the water quality component of the surface water assessment.

31.3.1 Stakeholder Engagement

Arrow appointed JTA Australia Pty Ltd to manage stakeholder engagement for the project. Details of the position and experience of each team member are presented in Table 31.4.

Table 31.4 JTA Australia Pty Ltd

Team Member	Position	Experience (Years)
Jan Taylor	Project Director BA (Economics & Government) LLB	20
Louise McCosker	Project Manager MPub & Int Law, MBA, BA	10
Leanne Griffen	Senior Consultant BA (Psychology)	5
Clare Beer	Consultant BA	7
Victoria Clark	Consultant BA LLB	1.5