



APPENDIX Q8

# **Social impacts and lessons from other mining developments**



## **Q8 SOCIAL IMPACTS AND LESSONS FROM OTHER MINING DEVELOPMENTS**

This appendix provides information on the social impacts, benefits and lessons learned from other mining developments in Australia and overseas, including the previous expansion of Olympic Dam. This information provides further detail to support Chapter 19, Social Environment, of the Draft EIS.

### **Q8.1 APPROACH**

The social impacts, benefits and lessons learned from mining developments in Australia and overseas were assessed by:

- reviewing the predicted and actual outcomes of the previous expansion of Olympic Dam, as documented in the 1997 EIS, based on existing publicly available information
- reviewing the literature on other mining projects in Australia and overseas, including reports from mining companies, relevant research, and EIS documents
- telephone discussions and personal contact with research and mining organisations on the implementation of strategies to address key issues and lessons learned.

The literature reviewed as part of this study is listed in the references.

Once identified, the lessons learned were integrated where possible into the design and management commitments for the proposed Olympic Dam expansion.

### **Q8.2 1997 OLYMPIC DAM EIS**

The biological and physical aspects of the previous 1997 Olympic Dam expansion are monitored and publicly reported through the Environmental Management and Monitoring Report. This reporting framework does not include the social environment.

Table Q8.1 summarises the predicted and actual social outcomes from the 1997 Olympic Dam EIS (Kinhill 1997) and lessons for the proposed expansion.

Table Q8.1 Predicted and actual social outcomes from the 1997 Olympic Dam expansion

Predicted outcome	Actual outcome	Lesson
Population growth	Greater population growth than predicted	Flow-on-effects for housing and services
Age profile	More dependent children than predicted	Ongoing monitoring of incoming population and demography required
Household structure and size	Smaller household size than predicted	
Projected workforce	Larger workforce than predicted	Impacts on population numbers with flow-on-effects for housing and services
Female employment	Female employment and occupations as predicted	Specific strategies required to increase female employment opportunities and occupations
Indirect jobs	More indirect jobs created than predicted	Large direct and indirect economic benefits to SA
Contribution to SA economy	Greater economic benefits to SA than predicted	
Benefits for the Upper Spencer Gulf	Population and unemployment declined in the Upper Spencer Gulf to 2001	Put in place specific strategies to realise benefits in the Upper Spencer Gulf
Views of Roxby Downs and Andamooka residents	Similar concerns and benefits raised by residents in consultation on the Roxby Downs Draft Master Plan and EIS in 2006	Ongoing communication and liaison with residents required Establish mechanism to respond to emerging issues and concerns
Housing	Demand for housing greater than predicted resulting in reduced supply and high costs	Monitor housing demand and match supply to meet the needs of the incoming residential population
Social services	Services and facilities expanded as predicted Some ongoing issues include: - recruitment of staff - lack of obstetrics services and hospital surgery - limited family support services - insufficient youth services and facilities - secondary schooling	Monitor size and demographics of incoming population Establish a planning group to: - monitor changing demographics - assess service requirements - coordinate planning and delivery of services across sectors and agencies
Youth employment and educational attainment	Continuing youth unemployment	Put in place education and training programs, increase apprentice and trainee schemes and provide job opportunities for young people
Community participation and governance	New mechanisms put in place for community input into town management, but ongoing issues about council accountability Expected benefits in recruiting volunteers not realised	Consider opportunities for greater community involvement in managing town affairs and decision-making
Other social impacts	Some impacts not predicted: - housing shortages - crime and anti-social behaviour	Monitor changes in social conditions and respond quickly to emerging social issues Consider measures to address potential issues around housing and crime

### Q8.3 IMPACTS AND BENEFITS FROM OTHER MINING PROJECTS

Tables Q8.2–Q8.5 summarise the social impacts and benefits that have been identified in other mining projects in Australia and overseas. In general, only limited information is available on the social impact and benefits from mining projects, with very few well-documented studies on the social impacts and benefits of developments over time, beyond the economic and employment benefits.

This review is based on publicly available documents and reports, and as such, may not reflect all the impacts or benefits arising from projects. In addition, many of the impacts (and to a lesser extent the benefits) are based on community perceptions, and have not been verified by empirical data.

The key for tables is as follows:

- √ Positive
- × Negative
- ↑ Increase identified
- ↓ Decrease identified

Table Q8.2 Social impacts and benefits from other mining projects: employment and business

Mining project/area	Business opportunities	Local business opportunities and sourcing	Business support and capacity building	Job creation and work opportunities	Education and training	Opportunities for specific population groups and locals	Labour supply and skills shortages (workforce drawdown)	Economic and industry diversity	Economic benefits
Olympic Dam, Roxby Downs (SA)	√			√					√
Alcan Gove, Nhulunbuy (NT)				√					√
McArthur River, Borroloola (NT)				√	√	√			√
Port Hedland and Newman, Pilbara (WA)	√		↑	√	↑	↑	×		√
Newmont Gold, Kalgoorlie (WA)		√		√		↑			√
Ravensthorpe (WA)	√	√		√	√		×		√
Bowen Basin coal (Qld)				√			×	×	√
Coppabella mine, Nebo (Qld)	√	√		√			×	√	√
Burton mine, Nebo (Qld)	√			√					√
Crinum Coal, Emerald (Qld)				√			×		√
Centennial Coal, Anvil Hill, Muswellbrook (NSW)				√	√	√			√
Drayton, Hunter Valley (NSW)		×		√	↑	×			√
Iluka (WA)	×			√			×		√
Iluka Mineral Sands, Hamilton (Vic)				√					√
Alberta Oil Sands (Canada)		√	√	√		√			√
Diaviak diamonds (Canada)		√		√		√			√

Table Q8.3 Social impacts and benefits from other mining projects: services, character and amenity

Mining project/area	Demand for services	Availability of services and facilities	Satisfaction with services	Recruitment of staff	Social character and identity	Company relations and communication	Community support and capacity building	Community cohesion / attachment	Other service issue or impact
Olympic Dam, Roxby Downs (SA)	↑	√		X			√		X
Alcan Gove, Nhulunbuy (NT)	↑	√					√		X
McArthur River, Borroloola (NT)									X
Port Hedland and Newman, Pilbara (WA)	↑	X		X	√		↑		X
Dampier, Pilbara (WA)		X			X				X
Wickham, Pilbara (WA)							X		X
Tom Price, Pilbara (WA)		X					X		X
Paraburdoo, Pilbara (WA)		X							X
Pannawonica, Pilbara (WA)									X
Ravensthorpe (WA)					X			X	X
Bowen Basin coal (Qld)	↑	X	X	X	X	X		X	X
Coppabella/Nebo (Qld)				X	X	X		X	X
Burton mine, Nebo (Qld)				X	X			X	
Crinum Coal, Emerald (Qld)		X	X	X					X
Weipa (Qld)	X	X	X						
Centennial Coal Anvil Hill, Muswellbrook (NSW)	↑					↑	√	X	
Drayton, Hunter Valley (NSW)		√				X	√		X
Iluka (WA)					X	X	√		
Iluka Mineral Sands, Hamilton (Vic)	↑				X		√		X
Alberta Oil Sands (Canada)				X					X

Table Q8.4 Social impacts and benefits from other mining projects: housing

Mining project/area	Demand for housing	Housing supply	Housing costs	Housing standards	Contractor accommodation	Other
Olympic Dam, Roxby Downs (SA)	↑	X	X			
Alcan Gove, Nhulunbuy (NT)	↑	X	X			
McArthur River, Borroloola (NT)		X				
Port Hedland and Newman, Pilbara (WA)	↑	X	X	X	X	X
Dampier, Pilbara (WA)						X
Paraburdoo, Pilbara (WA)						X
Pannawonica, Pilbara (WA)						X
Ravensthorpe (WA)	↑	X	↑			
Bowen Basin coal (Qld)	↑	X	X		X	X
Coppabella/Nebo (Qld)	↑	X	X		X	
Nebo/Mackay (Qld)	↑					
Crinum Coal, Emerald (Qld)			X			
Weipa (Qld)	↑	X				
Drayton, Hunter Valley (NSW)						
Iluka Mineral Sands, Hamilton (Vic)		X	X			
Alberta Oil Sands (Canada)			X			

Table Q8.5 Social impacts and benefits from other mining projects: other

Mining project/area	Cost of living	Community engagement and leadership	Dust and noise/amenity	Perceived crime or anti-social behaviour	Construction workforce	Cultural heritage	Transport and traffic	Health/OH&S	Shift schedules and LDC	Other
Olympic Dam, Roxby Downs (SA)	X	↑								
Alcan Gove, Nhulunbuy (NT)	X	↑	X		X	X	X			
McArthur River, Borroloola (NT)		↑				X				
Port Hedland and Newman, Pilbara (WA)	↑	↑	X	X	X	√	↑	↑	X	
Dampier, Pilbara (WA)			X							X
Wickham, Pilbara (WA)			X							X
Tom Price, Pilbara (WA)									X	X
Paraburdoo, Pilbara (WA)			X							X
Pannawonica, Pilbara (WA)									X	X
Newmont Gold, Kalgoorlie (WA)		X								
Ravensthorpe (WA)				X	X					
Bowen Basin coal (Qld)	X		X	X	X		X	X	X	X
Coppabella/Nebo (Qld)	X	↑	X	X			X		X	X
Nebo/Mackay (Qld)				X			X		X	
Crinum Coal, Emerald (Qld)	X									
Centennial Coal Anvil Hill, Muswellbrook (NSW)		↑	X			X	X			
Drayton, Hunter Valley (NSW)		↑	X					√	X	
Iluka (WA)		X					X			√ & X
Iluka Mineral Sands, Hamilton (Vic)				X	X					
Alberta Oil Sands (Canada)						X				



#### Q8.4 LESSONS LEARNED FROM OTHER MINING PROJECTS

The following key lessons learned from other mining projects include the findings from a review of the socio-economic and environmental effects of large mines undertaken for the World Bank (McMahon and Remy 2001), and highlight the importance of:

- companies establishing the trust of government, investors and the communities in which they operate
- understanding and acknowledging peoples' perceptions of potential impacts and dealing openly and transparently with the community, in order to build strong relationships between industries and host communities
- securing support from stakeholders and establishing partnerships between the public, private and non-government sectors to realise sustainable development
- good communication from companies by providing access to information of relevance and concern to the community and on new developments
- greater transparency in monitoring mining activities and timely reporting of performance
- establishing mechanisms to identify, monitor and respond to issues and concerns in a timely manner
- companies engaging in two-way communication through the flow of information, active dialogue about issues and following through with action
- companies allowing community input into decision-making related to the management of impacts, beyond progressing mine development
- strategic collaboration by government and industry to ensure economic benefits flow on to the local area
- focusing on social outcomes and benefits, as well as financial support
- specific and targeted local economic development plans and strategies
- specific strategies to enhance opportunities for women, young people and minority groups to realise benefits
- responding to labour shortages and flow-on effects for other enterprises
- proactive policies and training for mine and non-mine employment and in the provision of goods and services
- ongoing monitoring of the demography of the existing and incoming population and workforce
- collaborative and long-term planning to respond to demographic and other changes and to inform infrastructure and service planning
- identifying mechanisms for responding to social and economic impacts and funding responsibilities
- community development workers in identifying local needs and building community networks and capacity
- providing adequate housing, facilities and services to make communities viable and attractive to workers and businesses
- ensuring an adequate supply of housing and choices between housing and commuting
- building new houses for workers across different parts of the town to promote their inclusion in the community
- a health system that addresses issues such as eating habits, sexually transmitted diseases and drug and alcohol abuse
- base-line studies to monitor impacts and progress for both 'near neighbours' and the wider region, and including cumulative impacts
- documenting the impact of new industries or developments, not only those aspects which can be empirically demonstrated, but also community and stakeholder perceptions
- recognising the inter-relationship and connection between social and economic sustainability
- long-term planning, including post-closure, and the need to develop a post-mining economic base.

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