

Andamooka Progress and Opal Miners Association Inc

ABN: 63 854 296 751

"Preserving our past and planning for our future"

PO Box 246 ♦ Andamooka SA 5722 ♦ (08) 8672 7152 ♦ andamookaprogress@bigpond.com

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Mr Tony Windsor, MP
Standing Committee on Regional Australia
House of Representatives
PO Box 6021
Parliament House
CANBERRA SA 2600

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A submission from the Andamooka Progress and Opal Miners Association to the Standing Committee on 'fly-in, fly-out' (FIFO) and 'drive-in, drive-out' (DIDO) workforce practices in regional Australia.

FIFO and DIDO workforce employed by BHP Billiton at Olympic Dam operations have a direct impact on the community of Andamooka. This impact will be further exacerbated by the recently approved expansion which will be underway almost immediately. Some impacts are already being noticed in Andamooka.

Andamooka is located in the unincorporated areas of South Australia and therefore does not have a local council. The town has very limited resources to address issues of change relying almost entirely on volunteer input to manage the community. The Outback Communities Authority also assists but only in a limited manner due to a gross lack of resources. BHP Billiton does not consider Andamooka as a 'host community' and therefore will not provide assistance or funding for the increased needs for services and facilities. The town of Andamooka has very little infrastructure and this is exemplified by the following:-

No water reticulated around the town. All household water delivered by truck, no streetlights or footpaths, only one police officer etc

BHP Billiton's Hiltaba Village will be placed 12km from Andamooka and it has been advised that it will house up to 10,000 workers. To give a clearer view of this, the population of the village will be double that of Kangaroo Island. It is appropriate to say that approximately 80% of these will be men which will create many varied social issues for our community.

The centre will provide 2,500 parking spaces for DIDOs. For mobile residents, travel will be a likely pastime during time off. While 3 or 4 local businesses will benefit from these visitors, those profits are not invested back into the community to assist

essential services which are under increased pressure. Many of the major tourist attractions in the district, in particular the Lake Torrens National Park lay East of Andamooka. This will entail vehicles travelling through the centre of Andamooka to explore the country side and these attractions, all of which are serviced by fairly rough dirt roads. These roads are maintained by the community of Andamooka. The likelihood of accidents on these rough tracks and roads will place an ever increasing burden on the limited emergency services available.

CFS and SES emergency services have new and modern facilities but are entirely staffed by volunteers. The Andamooka health clinic has two trained staff who are on call 24 hours a day on a week on, week off roster.

The new airport to be built in conjunction with Hiltaba village is mooted to handle aircraft with 170 passenger capacity. This represents 60 or so flights per fortnight plus Andamooka and Roxby Downs normal passenger demand. This also represents approximately 300 bus movements per fortnight on the Roxby Andamooka road.

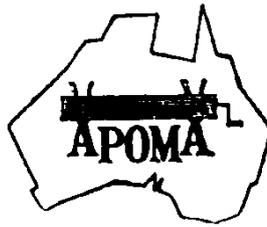
This submission represents a small snapshot of only a few concerns. Further information is available from the Andamooka EIS submission which highlights many more. Please find attached EIS submission.

Yours Sincerely

Peter Allen
Chairman

Andamooka Progress and Opal Miners Association Inc

"Preserving our past and planning for our future"



Submission on: The Proposed Olympic Dam Expansion, EIS

Sent to:

Olympic Dam EIS Submissions

GPO Box 1815

Adelaide SA 5001

APOMA Contact:

Peter Allen

Chairperson, PO Box 246, Andamooka, SA 5722

Developed by:

The Birchman Group

Asia Pacific Pty Ltd





Contents

1	Executive Summary	4
1.1	Background	4
1.2	About this document	4
1.3	EIS Response Approach	5
1.4	Overview of Findings	6
2	Strategic ‘Drivers’ and Context.....	7
2.1	ODX Impacts – Stakeholder Responsibility.....	7
2.2	Understanding Andamooka Today.....	7
2.2.1	Andamooka as ‘Marginalised’	7
2.2.2	Andamooka’s Community Cohesion	8
2.2.3	Co-existence with Olympic Dam/Roxby Downs.....	9
2.2.4	Trends in Public Service for Andamooka.....	9
2.3	Andamooka’s Future Vision	10
2.3.1	Andamooka Strategic Plan.....	10
2.4	The Impact of the ODX on Andamooka’s Strategy.....	10
3	Summary of Impacts and Issues	11
3.1	Summary of Impacts and Actions	11
3.2	Action by Stakeholder.....	11
4	Detailed Explanation of Impacts & Issues.....	14
5	Appendix A – List of Interviewees.....	36
6	Appendix B – Bibliography	37
7	Appendix C - Community Consultation Model	38
8	Appendix D - Police Coverage in Andamooka.....	39
9	Appendix E – GHD Tank Sample Analysis	40
10	Document Control	42



1 Executive Summary

1.1 Background

Andamooka is a community of approximately 800 people and is managed by APOMA, the local democratically-elected peak body. Andamooka is unique, in that, it is within South Australia's out-of-council areas, and is recognised for assistance purposes by the Outback Areas Community Development Trust (OACDT)¹. The township has very limited infrastructure and services and this has become a compounding issue as the township continues to grow and has grown by more than 50% from a population of 526 since the last census in 2006.

Significantly for this Response, Andamooka is not currently considered a "host" township by BHP Billiton's mining operation and this impacts the level of support and services provided. Regardless of definitions, it must be recognised that indeed Andamooka is local to Olympic Dam and is directly impacted by any change in the mining operations.

BHP Billiton has proposed an extensive Olympic Dam Expansion (ODX) to Roxby Downs and is undertaking a feasibility study that includes an Environmental Impact Statement (EIS). If the ODX proceeds, it is likely that open pit operations will commence in addition to the existing underground mine, which will tap the largest uranium deposit and 4th largest copper deposit in the world.

On May 1, 2009, BHP Billiton released the EIS and invited comment for a period of 14 weeks. This has given APOMA the opportunity to review the EIS and to present this Response.

The concerns raised today regarding the ODX are similar issues that were raised by Andamooka residents at various stages of the development of Olympic Dam.

In a similar fashion, an EIS was developed by Western Mining when it originally began mining operations 22 years ago, and a further document was also developed for the last mine expansion from 1997-1999. It is apparent to APOMA that there have been common concerns expressed in response to previous EISs that remain valid in responding to BHP's 2009 document.

1.2 About this document

One of the challenges in developing this Response is that the ODX is one of a number of components that are driving change in Andamooka. To maintain the appropriate perspective, the aim of this document is to represent the ODX impacts in the context of the multiple change components that are occurring in parallel. The principal factors driving change in Andamooka are:

1. **The new Outback Community Authority Bill, 2009.** This Bill is expected to be signed in the 2nd half of 2009 and will replace the Outback Areas Community Development Trust (OACDT) and allow limited council-like governance in Andamooka.

¹OACDT is a Trust that supported APOMA to provide common services for Andamooka. The Outback Communities Authority (OCA) Bill will provide some level of council powers to townships, such as Andamooka, that will be under the jurisdiction of the new Bill.

Both terms will be used in this document and will differentiate between past and present town management (under OACDT) with the future management (under OCA).



2. **APOMA Strategy Plan.** APOMA is currently developing a Strategy Plan to set out its objectives and actions plans in the next 5 years.
3. **New Town Manager.** The SA Government has agreed to fund the employment of a suitable town manager to be responsible for the day-to-day running of services and to assist with achieving the strategic goals set by APOMA.

The impacts of the ODX must be considered in the context of the other components that are driving change into Andamooka

Focusing on the ODX specifically, it is APOMA's goal to use this document to:

1. Identify the environmental, social, cultural and economic risks and benefits of the proposed ODX that are relevant to Andamooka;
2. Recommend ways to minimise and manage the negatives impacts while maximising the benefits from the proposed ODX.
3. Demonstrate that Andamooka requires a commitment of Responsibility² from multiple stakeholders and to gain agreement and commitment from stakeholders.

Document Note: Currently, APOMA is the most relevant body to facilitate this response on behalf of the Andamooka Community. However, it should be recognised that by the time the ODX may go ahead, the responsibility for community management and governance may have changed.

1.3 EIS Response Approach

APOMA worked with The Birchman Group to develop this Response to the EIS, using Birchman's Corporate Social Responsibility methodology. The approach was designed to be inclusive and allow all residents an opportunity to raise concerns in relation to the ODX.

Section 3 explores each individual issue and proposes a possible solution together with proposed stakeholders.

To develop this Response, APOMA worked through a series of town meetings and one-on-one interviews with residents and other stakeholders to review and understand the following areas:

- How Andamooka is best described now?
- What is Andamooka's vision for the future?
- How will the ODX impact on achieving the vision?
- What is the allocation of responsibilities to manage the impacts of the ODX?
- What has been the level of community engagement by BHP Billiton with Andamooka?
- How does the BHP Billiton's EIS compare to their own HSEC Policy³ and international standards⁴?

²Responsibility in this context refers to an organisation's social responsibility. According to BHP Billiton's website the objective is to "minimise potential negative social impacts while maximising the opportunities and benefits for our host communities."



1.4 Overview of Findings

The research undertaken with the Andamooka residents and various stakeholders, together with the analysis of the EIS, and social responsibility standards, have helped identify key impacts and issues for all stakeholders.

Detail of the impacts and proposed allocation of responsibility for resolution are in *3.Summary of Impacts and Issues* starting on page 11, and in *4.Detailed Explanation of Impacts & Issues* starting on page 14. However some key items have been brought into this summary to provide appropriate focus on them:

Highlight 1: Andamooka would be in a position to minimise the risks and benefit from the ODX if there were adequate governance and management capability, as well as adequate public services. Firstly, governance and management would allow Andamooka to have more influence over negotiations such as the Olympic Dam indenture, and secondly, adequate public services would allow Andamooka to manage any increase in population.

Highlight 2: In relation to the ODX, there is an inconsistency in how Andamooka is defined by 1) BHP Billiton and 2) government departments. It requires clarity in communicating:

- Andamooka as a local community that is impacted socially, economically and environmentally by BHP Billiton's operations.
- Andamooka provides a host function to the Olympic Dam Operations, either accommodating for over flow or an alternative to services provided in Roxby Downs.

APOMA encourages BHP Billiton to recognise Andamooka as a local community with a number of support or host characteristics in relation to the Olympic Dam operations.

APOMA understands that there are multiple stakeholders that have responsibility to ensure Andamooka is able to manage the impacts.

Highlight 3: There is an inconsistency of how the impacts on Andamooka are recognised within the EIS. For example, Andamooka is not included in the EIS Study area or not recognised as alternative place to live for ODX related employees. The perception of the community is that the EIS is not thorough in its considerations or is not recognising the full impacts of the ODX on Andamooka.

³HSEC Policy refers to BHP Billiton's Health, Safety, Environment and Community Policy

⁴The approach was designed to focus on the social, economic and environmental impacts from the Expansion. Corporate Social Responsibility is designed to look at three areas – risk, opportunities for growth and philanthropy; however this Response is designed to only focus on the risks and the opportunities for growth.



2 Strategic ‘Drivers’ and Context

2.1 ODX Impacts – Stakeholder Responsibility

Andamooka understands that multiple drivers of change are influencing the community and as a result there are multiple stakeholders. APOMA, as part of this Response, aims to nominate the responsibilities for each stakeholder to ensure that Andamooka is prepared for the ODX Impacts.

There is no doubt that the mining industry has a role in ensuring risks are minimised and benefits are shared between local communities. However, mining companies cannot achieve results on their own. Supportive government agencies, that reflect the broad interests of the community, are also important to ensuring the presence of mining activity does not turn opportunity into crisis⁵. As a result, APOMA identifies the following stakeholders as having key responsibilities:

- a. APOMA;
- b. Outback Areas Community Development Trust (OACDT, soon to be OCA);
- c. SA Department of Planning;
- d. BHP Billiton, ODX.

This Response has been developed for the review of all the above Stakeholders, so that the challenges Andamooka is facing can be understood and the roles of responsibility understood moving forward.

2.2 Understanding Andamooka Today

2.2.1 Andamooka as ‘Marginalised’

An analysis of the concerns of Andamooka’s stakeholders and the issues raised by the Residents clearly indicates that Andamooka is considered ‘marginalised’. Marginalised is not to represent poor, but to describe communities that are excluded from the mainstream of power and/or interest⁶. This can be summarised by the following:

APOMA understands Andamooka is at risk of not managing the impacts of the ODX if there is not better support from its stakeholders.

- Andamooka, is currently an ‘out of council’ with no authority with council powers;
- Andamooka does not have professional town management capability;
- Andamooka has limited public services provided to the town which restricts its potential growth or ability to withstand considerable socio-economic impacts;
- The major local development agreement, the updated Olympic Dam ODX indenture, will impact Andamooka without APOMA having any influence on the outcome.

⁵ Davidson J & Braithwaite J, World Bank, Tools for Sustainable Community Development Around Mining Operations.

⁶ Edwards, M and J. Gaventa eds 2001, Global Citizen Action



Key to this Response is an understanding of the differences in demographics between Andamooka and Roxby Downs as represented in the EIS. A small number of demographics demonstrate this:

Demographic	Roxby Downs	Andamooka
Median Age	29	46
Born in Australia (%)	83.1	65.2
Median household income(wkly)	\$2,033	\$597

Andamooka, in many ways has characteristics of much of remote Australia that has the potential to move towards a crisis point as defined in research work on outback communities⁷. If Andamooka is not able to manage the impacts of the ODX, it will lead to the following outcomes:

- Escalation in outlays in health, welfare, public services and justice areas.
- Escalation of social tension and further public and private-sector disengagement, and difficulty in retaining services and social capital.
- Breakdown of ability for the upkeep of the local component of a networked infrastructure such as roads, airstrips, Emergency Services and Communications systems that help support increasing numbers of tourists and travellers.
- Environmental implications through lack of proper management of surrounding areas such as Lake Torrens National Park.
- Serious implications for the stakeholder’s human rights and community engagement reputations.

Residents current concern for not having appropriate influence, governance or structure is demonstrated by the fact similar concerns were identified by the EIS in 1982: “upgrading of services (such as power and water supplies, roads, and airstrip), the retention of the existing school and, in the event of the town becoming an attraction to Olympic Dam Residents, the appointment of an additional police officer”⁸.

2.2.2 Andamooka’s Community Cohesion

Andamooka has developed since the 1930s as an opal mining town with a population that is best described as ‘community minded’. The town development has continued to be influenced by opal mining and a pioneering community and this has translated into the town’s culture today.

The population is multi-cultural, with many of the original settlers coming from various parts of Europe following World War II via working on the Snowy Mountains Scheme and the development of Woomera. Some escaped communism and/or concentration camps. Our research indicates that even the more recently-arrived residents identify with the history of the town and have chosen to live in Andamooka because of its uniqueness of character.

⁷ remoteFOCUS, Desert Knowledge Australia, Supported by BHP Billiton Iron Ore, WALGA and Rio Tinto.

⁸ Olympic Dam EIS, 1982. Section 11.5.1



It is important to recognise the level of community involvement that characterises Andamooka and the fact that our research has shown that the residents identify this as Andamooka's greatest asset. The impact of this is that Andamooka residents have made the town their long-term home and are directly engaged and investing in the town's future.

As a well established community, with many residents who have lived in Andamooka between 20-60 years, it is relevant to compare this to the fly-in, fly-out nature of many large-scale mining towns. It demonstrates that Andamooka has different expectations and requirements to Roxby Downs in managing the impacts of the ODX.

2.2.3 Co-existence with Olympic Dam/Roxby Downs

Roxby Downs and Andamooka have different historical contexts but have managed to co-exist and provide mutually supporting roles.

As the Olympic Dam mine was developed prior to 1987, before Roxby Downs was established, Andamooka provided various support services to the project. In 1982 the Whenan shaft was sunk by a group that included some of Andamooka's long-term residents⁹. Leading up to 1987, Andamooka Primary School was used for the children of Olympic Dam employees. Andamooka has also directly contributed to the mining operations by providing a source of local labour and an alternative location to live.

Equally, Andamooka has benefitted from the development of Olympic Dam and Roxby Downs. The water pipeline has provided Andamooka with a consistent source of water within trucking distance, and the development of Olympic Dam added impetus to the construction of the bitumen road to Andamooka. Andamooka's primary school students are now able to continue schooling in the area by attending the Roxby Downs secondary schools. Economically, Olympic Dam has provided employment opportunities to residents and flow-on business opportunities to small businesses.

For this Response, it should be acknowledged that despite some different characteristics, Andamooka and Roxby Downs have provided mutually supportive roles. APOMA recognises the great opportunity that the ODX presents and is, for its part, proposing to strengthen the ties between the two communities and for Andamooka to provide a greater support role for Olympic Dam operations.

One of the major objectives of Andamooka residents is to maintain the unique character of the town beyond any growth and development of the town.

2.2.4 Trends in Public Service for Andamooka

There is a concern from Andamooka residents that have lived in the township for many years and through the development of Olympic Dam, that Public Services over time have decreased. In previous years there was a public bus service, greater police coverage and more visits from health services such as doctors, and dentists. Either service has ceased or dwindled in the following years as Roxby Downs was established.

⁹Andamooka residents working on Whenan shaft include: Jock Anderson, Otto Zuna, Boris Lazic, Mladin (Tex)Vlasic, Bob Zek, Ted avis, Kenny Kunoth, Victor Buzza (Jrn), Gerhard Modei, Stan Markovitch, Michael Antic



2.3 Andamooka's Future Vision

2.3.1 Andamooka Strategic Plan

Through this response, APOMA aims to demonstrate a pro-activeness to prepare for, and manage, the change that is developing as a result of the ODX, new town governance, and the expectations of new residents.

To help manage the change, Andamooka is developing its Strategy Plan. The Strategic Plan will be used as the master plan for how Andamooka plans to achieve its objectives. Like this document, the Strategy Plan will be developed to be read by all its stakeholders, including SA Government and BHP Billiton.

Without predicting the outcomes of the Strategy Plan, the workshops and interviews facilitated with residents for the Response have identified clear objectives for the town. These interim objectives are important to Andamooka preparing and managing the opportunities and risks associated with the ODX. The interim objectives include:

- Overhaul of governance and management structure of the town.
- Professional expertise for town management.
- Maintain unique Andamooka spirit and character.
- Gain adequate Public Services – improved water delivery, access to state power, waste management, appropriate health services, and sufficient policing.

The ODX provides an opportunity for stakeholders to take responsibility for the town now, and ensure it has the capability to manage the ODX impacts and at the same time achieve the objectives set out in the Strategy.

2.4 The Impact of the ODX on Andamooka's Strategy

The gap between Andamooka's current situation and the town's objectives is clear. The challenge for Andamooka's stakeholders is to prioritise these objectives so that the town is able to manage the impacts of the ODX that are listed in Section 3 on page 11.

APOMA is confident that if the objectives set out, in Section 2.3.1 on Page 10, are achieved prior to the impacts of the ODX being realised, Andamooka will not only be able to manage the impacts but benefit greatly from the ODX.

As previously mentioned, in Section 2.2.1 on Page 7, Andamooka currently does not have the capability to achieve those objectives. The concern is the alternative to successfully managing the impacts, is that Andamooka will become a township that is characterised by a decreasing level of services, and a centre for anti-social and unmanaged behaviour that will represent a failure for all stakeholders.



3 Summary of Impacts and Issues

3.1 Summary of Impacts and Actions

The detail of the issues is provided in Section 4 on Page 14. The following analysis of the detail provides APOMA's perspective on which issues require the greatest priority.

Prioritised issues are characterised by the two factors: the highest level of benefit and the highest level of risk associated to each impact and issue. It therefore follows that an issue with a high potential benefit and a high potential risk will be at the top of the priority list.

The following are the top 10 priorities that need to be addressed:

- 1) Stakeholder Consultation & Engagement – Post EIS (Issue 11)
- 2) Population – Development of Public Services (Issue 14);
- 3) Economic – Tourism, Hospitality & Other Business Opportunities (Issue 28)
- 4) Economic – Support Business Services Opportunities (Issue 30);
- 5) Health Services - General (Issue 18);
- 6) Health Services – Mental, Drug and Alcohol Abuse (Issue 20);
- 7) Health Services – Emergency Services (Issue 21);
- 8) Crime & Safety – Anti-Social Behaviour (Issue 22);
- 9) Crime & Safety – Policing (Issue 24);
- 10) Roads, Transport and Access on Andamooka Road (Issue 26).

3.2 Action by Stakeholder

Through the analysis and identification of the impacts APOMA has proposed action items for each Stakeholder. APOMA's goal is to clearly set out how the impacts should be managed and what are the individual stakeholder's responsibilities in this process.

Following is an overview of responsibilities to be attached to each Stakeholder.

APOMA:

- Facilitate the stakeholders and facilitate the management of the individual impacts.
- Develop a Town Strategy Plan to support the management of the impacts.
- Develop a Tourism Business Plan to set out clear plan to accommodate tourists.
- Work closely with SA Planning and OCADT to plan for the development and delivery of key public services.
- Work closely with Frontier Services and SA Outback Health to develop health services.



SA Planning

- Ultimate Responsibility to ensure Andamooka has the adequate public services, governance and management capability to manage and prepare for the impacts of the ODX. Specifically:
 - Power Supply
 - Waste Management
 - Public Services
 - Policing Services
- Supporting the OACDT to develop governance, management capability for the town and to develop an agreed Strategy Plan.

BHP Billiton:

- To clarify how BHP Billiton categorises Andamooka in relation to the ODX – local, impacted with host characteristics.
- Work with APOMA and Police to mitigate potential ODX employee-related anti-social behaviour: security issues, alcohol and drug abuse, and prostitution.
- Communicate with APOMA in relation to components of the ODX that are not confirmed currently. For example, Airport flight paths, Andamooka Road changes, and water supply through the ODX Project.
- Confirm commitment to the Community Engagement model between APOMA and BHP Billiton.
- Include overviews of initiatives to promote local recruitment opportunities.

Outback Areas Community Development Trust (OACDT):

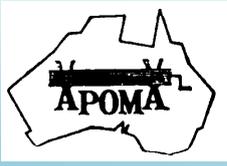
- Responsibility to drive governance and management capability into Andamooka.
- Represent Andamooka in dealing with SA Planning in regards to the ODX.
- Work with the Northern Regional Development Board to support local businesses and APOMA to develop business plans to realise the opportunities for hospitality and tourism operators.

Frontier Services:

- Work with Roxby Downs hospital to ensure health requirements in Andamooka are considered in future planning.
- Ensure health issues specifically related to the elderly are catered for in the future plans.
- Work with APOMA and SA Health to develop a future plan for Health Services in Andamooka that will accommodate the impacts of the ODX.

SA Police

- Review plans and commit to an adequate number of police to be full-time in Andamooka.



- Work with BHP Billiton and APOMA to ensure Anti-Social Behaviour is managed within the town, such as: violence, alcohol and drug abuse, and prostitution.



4 Detailed Explanation of Impacts & Issues

The following is the overview of issues as identified by APOMA. This section identifies issues and impacts, and presents an overview of how these represent risks and benefits to Andamooka. Following on, actions are proposed to assist with the update of the EIS. Each impact has nominated stakeholders in order to understand responsibility. There is also a level of risk or benefit attached to each area of impact, which demonstrates its priority to APOMA. The level of impact is described as follows:



It follows that the focus for Andamooka's stakeholders should be managing the high benefit and high risk impacts.

Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
1	Exec Summary	<p><u>EIS Study Area</u></p> <p>Clarity around inclusion of Andamooka in the EIS Study Area.</p>	<p>Andamooka is not included in the EIS Study Area, as presented in the maps using the yellow border to represent the EIS Study Area. For example, see Figure 13 in the EIS.</p> <p>APOMA understands from a meeting with the BHP Billiton EIS Team (led by Steve) on 25th May 2009, that the EIS Study Area identifies the Environmental Impact Area and is not designed to represent the area for social and economic impacts.</p> <p>Action:</p> <p>APOMA would encourage BHP Billiton to include Andamooka as part of the EIS Study Area and represent that it also covers environmental, social and economic impacts.</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
2	Exec Summary	<u>Clarifying how is Andamooka categorized by BHP Billiton</u>	<p>In reference to the above issue, and to provide consistency throughout the EIS, APOMA would like BHP Billiton to clarify how it categorises Andamooka in the context of the Olympic Dam Expansion.</p> <p>APOMA recognises that the EIS has mentioned that Andamooka is:</p> <p>‘local’ (Under section Consultation to Date, EIS, Pg 14); and</p> <p>‘Impacted’ (Under EIS Executive Summary referencing impacts of Hiltaba Village).</p> <p>APOMA notes that while Roxby Downs was constructed to be a “host” town to Olympic Dam, Andamooka was not. However, in reality it should be noted, particularly in the areas of housing, providing a local workforce and a destination for anti-social behaviour, Andamooka also provides a number of “host” functions.</p> <p>Given these references, APOMA assumes that Andamooka is recognised through BHP Billiton’s commitment to the International Council of Mining & Metals’ (ICMM) Sustainable Development Framework and particularly Principle 9: “Contribute to the social, economic and institutional development of the communities in which we operate.”</p> <p>Action:</p> <p>The EIS be updated to clearly reflect BHP Billiton’s commitment to impacted, local and host communities, and for Andamooka to be represented as such.</p>	
3	Exec Summary	<u>Andamooka as separate locality.</u>	<p>APOMA is concerned that Andamooka has been grouped with Roxby Downs in the EIS Study when looking at the Social and Economic Impacts. As discussed in the Section 2 of this document (see 2.2.3 on page 9), Andamooka and Roxby Downs are very different. To understand and prepare for the ODX impacts,</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>Roxby Downs and Andamooka should be considered as separate, but supportive localities that, while they share some of the impacts, have unique requirements.</p> <p>Action: BHP Billiton to update the EIS to represent Andamooka as having unique requirements.</p>	
4	Chapter 5	<u>Workforce Accommodation – Not including Andamooka</u>	<p>As recognised by the EIS, Andamooka does provide an alternative location for Olympic Dam employees and others to live. In the EIS, it is measured that 220 current residents are employed by Olympic Dam operations.</p> <p>It may be assumed that this number will increase relative to the population increases in Roxby Downs through the ODX. Despite efforts by BHP Billiton to not utilise Andamooka as place to live, employees will see Andamooka as an alternative – as is currently the case.</p> <p>Action: It should be recognised that Andamooka does provide an alternative place to live and this does represent a cost saving to BHP Billiton. It therefore should be represented within the EIS.</p> <p>In addition, it should be recognised that Andamooka will require adequate public services to accommodate increases in population.</p>	
5	5.7	<u>Project Component: Water Supply</u>	<p>APOMA and Andamooka recognise the role that BHP Billiton has played in providing Andamooka with a consistent water supply. The water supply has allowed residents to have consistent and easier access and has freed up other water sources for town requirements. It should be noted that currently residents pay 14 times the rate of other citizens in South Australia.</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>Action</p> <p>APOMA seeks clarity from BHP Billiton for the continuation of the water supply throughout the ODX project, specifically through the construction of the Hiltaba Village. The support of SA Planning is required to ensure that this basic public service is maintained at a fair level of cost to residents.</p>	
6	5.8	<u>Project Component: Electricity Supply</u>	<p>Currently, Andamooka is supplied by a private operator and pays approximately 20% higher rates than other citizens in South Australia.</p> <p>APOMA recognises that the ODX provides an opportunity to expand the power grid to include Andamooka and the rates and service that other citizens enjoy.</p> <p>Action:</p> <p>BHP Billiton and SA Planning to discuss and negotiate plans for the power supply to be extended to Andamooka. APOMA is required to be informed of these developments and to include these in the town Strategy Plan.</p>	
7	5.9 9.7.5	<u>Project Component: Airport</u>	<p>It is recognised that the draft flight paths for the new Airport will not impact the township of Andamooka. APOMA looks forward to receiving consultation as plans for the Airport is confirmed.</p> <p>Action:</p> <p>Update on the plans for the Airport to be regularly included in APOMA/BHP Billiton meetings.</p>	
8	5.10 9.7.6	<u>Project Component – Hiltaba Village</u>	<p>The construction of Hiltaba Village has the greatest impact – both negative and positive - on Andamooka. Hiltaba Village will impact Andamooka through its proximity, the increase in traffic on the Andamooka road, the increase in business to Andamooka hospitality and tourism businesses, and the increase in</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>anti-social behaviour.</p> <p>Response Note:</p> <p>The individual impacts of Hiltaba Village will not be analysed in this section but will be covered individually in separate sections.</p>	
9	Exec Summary	<u>Project Component – Bore Road Relocation</u>	<p>The relocation of the Borefield Road provides the greatest business opportunity for Andamooka. The relocated Borefield Rd will provide easy access to tourists to Andamooka’s tourist facilities.</p> <p>Action:</p> <p>APOMA to recognise the impacts of the relocation of the road and work with the OACDT to prepare businesses for this opportunity.</p>	
10	Chapter 7	<u>Stakeholder Consultation and Engagement – EIS Process</u>	<p>APOMA recognises that Andamooka was included in the consultation and this demonstrates that Andamooka is recognised to be impacted by the ODX.</p> <p>Although there is reference to Community Consultation with Andamooka, there was some inconsistency on issues that the township was consulted about. As Appendix H in the EIS shows, there were 4-5 specific meetings with representatives from Andamooka/APOMA compared to many more interactions with Roxby Downs.</p> <p>APOMA would have appreciated more direct involvement in the planning process, particularly in areas that effect Andamooka directly, for example:</p> <ul style="list-style-type: none"> • Flight plans for the new airport. • Continuation of the water supply through the construction of Hiltaba Village; and 	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<ul style="list-style-type: none"> The relocation of the Bore field Rd. <p><u>No required action</u></p>	
11	Chapter 7 Appendix H	<u>Stakeholder Consultation and Engagement – Post EIS</u>	<p>APOMA recognises that community consultation requires structure and governance so that it encourages a positive relationship that will benefit both APOMA and BHP Billiton.</p> <p>This issue is important to Andamooka as it attempts to manage the impacts of the ODX. Please see Appendix C on page 38 in this document for more information on a proposed engagement model moving forward.</p> <p><u>Action:</u></p> <p>APOMA would like to propose a very structured community consultation model moving forward that allows designated APOMA Members to have direct access to designated people within BHP Billiton for separate issues:</p> <ul style="list-style-type: none"> Overall APOMA-Roxby Downs-BHP Billiton Relationship Anti-social behaviour Environmental issues Economic/Business impacts and development 	
12	13.3.4 24.4.6	<u>Dust from Mining Operations - Receptors not planned for Andamooka</u>	<p>The EIS explains that there will be monitoring of airborne particles in Roxby Downs and Hiltaba Village. APOMA understands that there is likely to be 5 risks days per year where the direction and speed of the wind will threaten Hiltaba and Andamooka. However the key difference in impact is that Andamooka residents drink water from their tanks and therefore it only requires one day of harmful weather to impact the water supply.</p> <p>Andamooka and GHD conducted water tank tests to establish a benchmark for</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>future testing¹⁰. The results show (Appendix E on page 40) the water quality is satisfactory; however sediment tests showed that there were concerning levels of lead. APOMA is not sure of the reasons for these results but would encourage more investigation.</p> <p>Action:</p> <p>APOMA recommends that BHP Billiton monitor the airborne particles in Andamooka as a straight forward way of easing residents' concerns. This was a major environmental concern for Andamooka residents.</p>	
13	Chapter 18	<p><u>Non-aboriginal culture and heritage</u></p> <p>APOMA recognises that the Expansion will not impact directly physical historical artefacts such as Dick Clark's Residence.</p>	<p>APOMA would like to note that non-physical characteristics should also be recognised in this section. An example of this is the rich opal mining history that Andamooka has and will be at risk as a result of considerable change to the township.</p> <p>If managed well, Andamooka will grow and develop as a result of the ODX. The concern (risk) is that the history of Andamooka will not be retained as the town develops. At this stage no entity is taking responsibility for this role and APOMA at present does not have the appropriate resources.</p> <p>Action:</p> <p>APOMA proposes that BHP Billiton or SA Planning together with APOMA, support the preservation of Andamooka's history as part of Australia's mining history.</p>	

¹⁰ Andamooka Tank Samples, GHD and ALS Laboratory Group, 18-Jun-09.



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
14	19.5.3	<u>Population – Provision of Adequate Public Services</u>	<p>APOMA predicts that the population of the town will grow to 1500-2000 people based on the current population, recent growth and the local growth due to the ODX.</p> <p>SA Planning has been working with Andamooka residents and APOMA to prepare plans for the Expansion.</p> <p>The major concern is that Andamooka is not structured to accommodate a large increase in population. The structure is mainly focused on the provision of adequate public services that will allow the town to function properly. Improvement and the development of adequate public services would be summarised by the following:</p> <ul style="list-style-type: none"> • Waste Management • Power Supply • Health Services • Police • Water Supply <p>Action:</p> <p>This issue reflects the pressure that the ODX will put on the townships structure and services. APOMA, OACDT and SA Planning need to work together to manage the requirements for these services. APOMA will be including these critical components in the APOMA Strategy Plan.</p>	
15	19.3.5 19.5.3	<u>Housing supply & costs</u>	<p>The ODX will result in an increase in population for Andamooka. In recent years the population has increased as a result of OD Employees or others seeing Andamooka as an alternative location to live. In addition, previous residents</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
	21.4.8		<p>have returned to take advantage of the growth opportunities.</p> <p>APOMA predicts, while considering the present population and recent growth, that the population may increase to 1500-2000 people. Pressure on housing prices will occur but it will be not be the same as Roxby Downs.</p> <p>There is some uncertainty and nervousness about house prices in Andamooka and this is largely due to the current economic climate and the lack of public services within the township.</p> <p>Positively, Andamooka does provide the ODX with alternative and more affordable housing.</p> <p>APOMA recognises that Andamooka is especially an alternative location for employees of contractors and peripheral industries who are not paid as well as BHP Billiton employees.</p> <p>Action:</p> <p>BHP Billiton to identify Andamooka as an affordable alternative to Roxby Downs within the EIS.</p>	
16	19.3.6 19.5.5	<u>Character & Well-being - Making available facilities, information to Roxby Downs</u>	<p>APOMA understands that Andamooka does not have the population or resources to warrant many of the facilities that Roxby Downs has within its community. In many cases duplication would be wasteful and unproductive. APOMA suggest that the Roxby Downs Council, BHP Billiton and APOMA look at ways in which the community services and facilities are made more accessible to Andamooka residents. It presents another opportunity in which Andamooka benefits from the ODX.</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p><u>Actions:</u></p> <p>Proposed solutions to include:</p> <ul style="list-style-type: none"> • Community communication plan to co-ordinate activities between Roxby Downs and Andamooka. • Information Board constructed within Andamooka to communicate Roxby Downs activity and opportunities (business/employment). 	
17	19.3.6 19.5.5	<u>Character & Well-being - Elderly</u>	<p>It is important to single out one demographic group within Andamooka – the elderly. Andamooka has a distinct aging population that have lived and worked in the region for many years and contributed to the overall development and history of the area. More than any other group, the elderly established themselves in Andamooka due its unique character and lack of public services.</p> <p>There is a concern within this group about the changes brought on by the ODX and their ability to cope with the associated impacts. Whilst changes and development is inevitable, special care and attention should be provided to minimise the impacts and support this group.</p> <p><u>Action:</u></p> <p>APOMA recognises the importance of the elderly to the history of Andamooka and encourages SA Planning and SA Health to ensure adequate levels of service are required such as:</p> <ul style="list-style-type: none"> • Specialised health services – home care, palliative care, meals-on-wheels. • Establishment of Community Centre to provide activities and support. • Monitoring of social and economic impacts focused on the elderly. 	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
18	19.3.8 19.5.4	<u>Health Services - General</u>	<p>Any increase in population in Andamooka, together with development of Hiltaba Village will put pressure on the current general services that are provided by Frontier Services.</p> <p>Frontier Services is designed to provide health services to areas that are isolated within Australia. Currently, according to Frontier Services, the Andamooka Clinic takes in more patients daily, monthly and yearly than Emergency Services at Roxby Downs. It is understood that there are limited options in Roxby Downs and there is some overflow at present from Roxby Downs.</p> <p>Frontier Services is required to provide home and respite care which is delivered through staff and volunteers. The aging population of Andamooka requires this, if the aged are to remain in Andamooka in their later years. At present many ill or frail are required to move as far as Port Augusta. Frontier Services also recommends the ability to provide on-site palliative care for the elderly.</p> <p>Actions:</p> <p>Frontier Services' to work with SA Health and APOMA to plan for the new requirements on the health clinic in relation to the ODX¹¹. To deliver the health services with the impacts of the Expansion the following will be required – in the form of a new clinic:</p> <ul style="list-style-type: none"> • Consulting rooms 	

¹¹ Frontier Services, AHS, Andamooka Health Services – Past, Present and the Future Vision.



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<ul style="list-style-type: none"> • Office • Treatment room • Commercial kitchen for meals on wheels • Community area for day respite care and community activates • Office for Home and Community Care(HACC) • Palliative Care: 4 x care studios. <p>Currently there is one nurse at any time on call. An increase in population of up to 1500 people plus, additional requirements for up to 4-6 full-time staff will be required.</p> <p>Frontier Services is working with SA Health to establish the future levels of service and support from APOMA and BHP Billiton to provide for this capability is required.</p>	
19	19.3.8 19.5.4	<u>Health Services – Early Child hood</u>	<p>There is a concern with the lack of health care for early childhood as a result of Roxby Downs having the largest birth rate in South Australia.</p> <p>Andamooka, even with its high proportion of aged residents has seen more families settle within the community. APOMA predicts that this trend will continue with the expansion and Andamooka promotes the community as family-friendly. It is recognised that while there is no specific requirements for early childhood health services in Andamooka specifically, there is however a growing requirement in Roxby Downs.</p> <p>Action: APOMA and Frontier Services are required to work with Roxby Downs Council to communicate Andamooka’s concerns.</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
20	19.3.8 19.5.4	<u>Health Services – Mental Health & drug abuse</u>	<p>As with any outback town there is a large incidence of mental health and drug and alcohol abuse. Currently, the clinic services on average two alcohol-related injuries a week. The mental-related services are delivered through a counsellor visiting once a month. This is not adequate for the current circumstances and it will not be adequate if the population grows.</p> <p>Action: Provide more consistent support and education services to the residents of Andamooka in the areas of Mental Health</p>	
21	19.3.8 19.5.4	<u>Health Services – Emergency Services</u>	<p>Andamooka is the first point of call for Emergency Incidents around Andamooka and in Lake Torrens National Park. With the increased population from the nearby Hiltaba Village, Frontier Services believes there will be an increase in emergency incidents.</p> <p>Frontier Services currently uses an ambulance to transport patients and to respond to Emergency call-outs. Frontier Services by default is the first point of call for emergencies from the Lake Torrens National Park. At present Emergency call-outs are answered by the duty nurse together with a spouse or Andamooka volunteer. The concerns that need to be managed are:</p> <ul style="list-style-type: none"> • The ambulance is aged and insufficient for the Emergency Services level of responsibility. • Numbers of Emergency call-outs will increase through Hiltaba Village residents using the National Park for off-road recreation. • The increase in call-outs will require greater staff numbers to appropriately provide for trauma care. 	



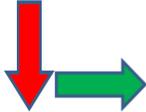
Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
22	19.3.9 19.5.2 Appendix Q4	<u>Crime & Safety – Anti-Social Behaviour</u>	<p>Andamooka recognises that the town will be a destination for Olympic Dam employees – regardless of the facilities provided at Hiltaba Village.</p> <p>Hospitality businesses in Andamooka recognise the opportunity that the proximity of Hiltaba Village presents, but are concerned with accommodating large numbers of extra people that may disrupt the peace within the township.</p> <p>Action:</p> <p>As discussed in the EIS, APOMA would encourage BHP Billiton and SA Police to follow through with its proposed commitments and include assurance that Andamooka be included throughout the process – specifically the:</p> <ul style="list-style-type: none"> • Liquor license accord and code of practice. • Community Safety Committee. • Nominated Community Project Officer to be contactable for anti-social behaviour matters. • After hours community transport. <p>In addition, we would propose the following ideas:</p> <ul style="list-style-type: none"> • Extend the Code of Conduct signed by Olympic Dam employees to extend to behaviour in Andamooka. • Include as part of the induction, an overview for visiting Andamooka that will assist in explaining the unique character, history and frailties. 	
23	19.3.9 19.5.2 Appendix Q4	<u>Crime & Safety – Prostitution</u>	<p>The EIS does not significantly assess the risk of illegal prostitution as a result of the ODX. As a result of the previous expansion, Andamooka saw the development of a prostitution industry that was bikie gang related and therefore it is important to recognise the direct impacts.</p> <p>Firstly, it is important BHP accepts responsibility for the impacts of the</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>development of the singles accommodation, which is a major factor in encouraging anti-social spin-off industries in the local community¹².</p> <p>APOMA understands that there is some level of inevitability that Andamooka will be targeted as the location for this activity. The reasons for this are:</p> <ul style="list-style-type: none"> • It has occurred previously, • There is limited police coverage, • Andamooka is the closest location from the ‘singles camp’, Hiltaba Village, which will accommodate up to 10,000 employees. <p>The impact is not limited to the risk of illegal activity but also to the health and safety of sex workers and ‘clients’ who will be predominantly employees of Olympic Dam. It is in BHP Billiton’s interest to ensure that it takes responsibility for the impacts.</p> <p>Action:</p> <p>APOMA proposes that SA Police, APOMA and BHP Billiton meet to understand the risks for such activity, and all precautions are made to manage this activity. Andamooka residents are concerned that the town will become the destination of such activities.</p> <p>It is suggested that a study or workshop is commissioned by BHP Billiton to assist APOMA with managing the impacts. An organisation such as the Sex Industry Network (SIN) would be valuable to do such a piece of work.</p> <p>APOMA also requests a commitment from SA police to explain how prostitution activity will be managed.</p>	

¹² Ian Wood, Vice President Sustainable Development, HSEC Q&A London Briefing, 2002



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
24	19.3.9 19.5.2	<u>Crime & Safety – Policing</u>	<p>As shown in Appendix D to this report, on page 39, a Policeman has only been in the community on call or on duty for a total of 207 days out of 308 days from September 11, 2008 and 27 May 2009. This is not acceptable for policing the current population.</p> <p>The ODX will put pressure on the requirement for police to be on-site and it is understood there are plans for an increase of resources for up to 3 full-time policemen – which assumes a similar utilisation rate as mentioned above. APOMA believes that this will not provide adequate capability for the towns predicted increase in population and the increase in traffic.</p> <p>It should be highlighted that, with police matters, there needs to be equal level of service between Andamooka and Roxby Downs. If the coverage is unequal then there will be a tendency for criminal and ant-social activity to be concentrated in one area. Andamooka residents are greatly concerned that Andamooka will be the destination for such activity.</p> <p>APOMA recognises that Andamooka residents are not co-operative in reporting crime and this is magnified by the difficulty in reporting incidents and the distance from Roxby Downs Police Station when there is no policeman on-site.</p> <p>Action:</p> <p>A commitment to the number of police to Andamooka by SA Police which is independent, but consistent with, commitments made to Roxby Downs.</p> <p>An education program for residents on the reporting of crime within the township and the importance of this to the town future.</p> <p>In the event of unavailability of policemen in Andamooka, that BHP Billiton ensures that contractor security services are hired for the security around Andamooka’s hotels and restaurants at night.</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
25	19.3.10 19.5.6	<u>Transport, Access & Mobility – Road Traffic Volumes</u>	<p>Discussions with BHP Billiton have confirmed that detailed planning for the road development along Andamooka Road is not included in the EIS.</p> <p>APOMA is concerned about delays and safety issues along the Andamooka Rd through the ODX process and beyond. The construction of Hiltaba Village and the Airport will require major road changes if traffic delays are to be minimised. Developments required, that are not included in the EIS:</p> <ul style="list-style-type: none"> • Multiple over-taking lanes on the Andamooka Rd. • Extended merging lanes at the intersections with Hiltaba Village and the Airport. • Commitments for limiting use of private vehicles for transport to and from Hiltaba Village. • Extending the Olympic Dam bus services to Andamooka. <p>APOMA sees this issue as a highly visible impact that will potentially frustrate Andamooka residents who must travel on the road regularly.</p> <p>Action: BHP Billiton to work with SA Planning and APOMA to ensure measures are taken to adequately manage traffic and congestion.</p>	
26	19.3.10 19.5.6	<u>Transport Access & Mobility – Andamooka Residents</u>	<p>Andamooka currently has no public bus service or, indeed, bus service for the 220 residents who are employed at Olympic Dam. This severely restricts the movement of residents without cars and also increases the level of traffic on the Andamooka Rd.</p> <p>APOMA would encourage Olympic Dam to extend its bus services to include Andamooka, especially as bus services for employees are provided to and from Roxby Downs, Hiltaba Village, Woomera, Port Augusta and Adelaide. Our</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>research amongst residents, who are employees of Olympic Dam and/or within Roxby Downs, is that a regular bus service would be utilised. The advantages would be clear:</p> <ul style="list-style-type: none"> • Decreased traffic on Andamooka Rd and Olympic Way • Increased safety for employees travelling to and from work. • Simple and effective way to provide services and demonstrate inclusion for the Andamooka Township. <p>Action: APOMA and BHP Billiton to establish business case for extending public bus service to and from Andamooka. Establish business case and planning for extending employee bus service between Andamooka and Olympic Dam.</p>	
27	19.3.10 19.5.6	<u>Transport, Access & Mobility – Access to Andamooka and beyond</u>	<p>It is not recognised by the EIS that Andamooka will be a destination for extra-curricular and recreational activity for Roxby Downs and Hiltaba Village residents. APOMA believes that there will be a great increase in traffic through Andamooka and Lake Torrens National Park for the following reason:</p> <ul style="list-style-type: none"> • Hiltaba Village is closer to Andamooka than Roxby Downs • Hiltaba Village residents will want an alternative destination • Andamooka will have less police oversight • Hiltaba Village has up to 2500 car places which will encourage employees to bring personal vehicles into the village. This is supported by the second hand car trade that occurs amongst coming-and-going Olympic Dam Employees. • Lake Torrens does provide a unique and expansive location for off-road 	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>driving, dirt biking and camping.</p> <p>Action: APOMA encourages BHP Billiton to include in the EIS, the issue of mobility and traffic and recognition that many miners living at Hiltaba Village will have access to their own transport.</p>	
28	Chapter 21	<u>Economic Opportunity</u>	<p>APOMA recognises the opportunity that the ODX provides Andamooka. Importantly, it provides the ‘business case’ to develop adequate services, governance and management for the town.</p> <p>As discussed in Section 2 of this document, Andamooka is like many parts of remote Australia, - a marginalised community that does not have a lot of influence on relevant developments. As a result, there is a risk that if the current situation were to continue, Andamooka would not be able to manage the impending risks due to the ODX.</p> <p>APOMA is pro-actively engaging its stakeholders to support the development of Andamooka so that the town can effectively manage the impacts of the ODX. Importantly to Andamooka’s stakeholders, providing an environment in which business can grow will be integral to this process.</p> <p>Action: APOMA encourages BHP Billiton to recognise the requirement to support Andamooka’s development aspirations through the EIS</p>	
29	21.4.9	<u>Local Business Opportunities – Tourism & Hospitality</u>	<p>The greatest opportunity presented to Andamooka is the increased traffic through the town, due to the increased workforce from the ODX and tourists travelling through the area. APOMA is encouraged by the following</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>developments related to the ODX:</p> <ul style="list-style-type: none"> Relocation of the Bore field Road to be within 12km of Andamooka that will bring tourists closer to the township. Potential interest from new tourists to travel to Olympic Dam to view the mine. <p>The EIS does not include any plans to provide facilities for tourists to view the open-cut mine, much in the same way as major worldwide mines provide viewing decks for tourists. APOMA understands that BHP Billiton is not in the tourism industry, however, developing plans for a viewing deck will provide the following:</p> <ul style="list-style-type: none"> Legitimate way in which people can view the open-cut mine, and reduce risk of trespassing. Provide and support another industry in the region that will assist with the long-term development and diversity of industry within the region. Increase the traffic and business for tourism and hospitality operators in Woomera, Roxby and Andamooka. <p>Action: APOMA to organise the development of a local tourism business council and the development of a tourism plan. BHP Billiton to review tourism as a benefit and impact of the ODX.</p>	
30	21.4.9	<u>Local Business Opportunities – Mine Support Services</u>	<p>Andamooka is in a unique position to provide services that will serve a positive purpose to the township of Andamooka and Olympic Dam operations. These opportunities are:</p> <ul style="list-style-type: none"> Andamooka as a destination for recreational activity for Olympic Dam 	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			<p>employees.</p> <ul style="list-style-type: none"> Potential Industrial area within Andamooka for contracting companies to operate from. <p>Actions: APOMA to work with SA Planning and the OACDT to develop a specific plan for harnessing the potential opportunities. This should include dialogue with Roxby Downs Council and BHP Billiton communicating the services and that may be offered by Andamooka businesses.</p>	
31	21.4.9	<u>Local Employment Opportunities</u>	<p>APOMA recognises as in the EIS that there will be local employment opportunities presented to the labour force in Andamooka. The low labour participation rate of 44.9% as presented in Appendix Q1 in the EIS represents an opportunity to increase the participation but also demonstrates the challenge to improve this.</p> <p>There is a concern amongst the unemployed, particularly the residents recently made unemployed from the job cuts at Olympic Dam in late 2008, that there is not a sufficiently visible commitment to local employment opportunities. APOMA would like to understand how BHP Billiton will implement initiatives to promote employment opportunities to locals.</p> <p>It is understood that much of the recruitment process is facilitated by national recruitment organisations that ‘cast a wide net’ to find candidates and they do not have a significant local focus.</p> <p>Action: BHP Billiton to outline initiatives in the EIS to promote local employment</p>	



Issue Number	Reference in BHP EIS	Issue	APOMA Comment	Level of Risk/Benefit
			opportunities. BHP Billiton to require that recruitment organisations have local recruitment drives.	

5 Appendix A – List of Interviewees

The following people had input through the research process.

Town Meeting Attendees held on the 20th May at 2pm and 7:30pm.

Name	Name	Name
Liz Schulte	Steve Springer	Rosa
Jim Blackmore	Margot Duke	Peter Taubers
Peter McReady	Jeff Munchinburg	Al Lucas
Fred Heinz	Cass Rowett	Beryl Spargo
Greg Franklin	Chris Sharp	Melissa Pidgeon
John Visy	Conrad Powell	Peter Allen
Caroline Christenson	Bill Kaplicos	Marie Powell
Paul Killeen	Elizabeth Christianson	Ray Christenson
Anthony Johnston	Greta Howard	Chris Lyons
Peter McReady	Allen Heath	John West
Bronwyn West	Luke Hudson	Bob Amos
Greg Grace	Dallas Vogt	Evette Vogt
May West	Fred West	

Individual Discussions.

Name	Occupation	Name	Occupation
Di Williams	Resident	Craig Sumsion	Real Estate Agent
Peter McReady	Resident	Steve Green	BHP Billiton
Dick Clark	Resident	Kim Winter-Dewhirst	BHP Billiton
Carl Church	Resident	Paul Case	Government Task Force
Therese Schofield	Resident	Richard Yeeles	BHP Billiton
Stuart Paxton	SA Police	Claire Wiseman	NRDB
Jade Burns	SA Police	Di Bilka	Resident
Cass Rowett	Resident	Chris Lyons	Resident
Mark Vivian	Resident	Val Harrison	Resident
Peter Allen	Resident	Cathy Pirie	Resident



6 Appendix B – Bibliography

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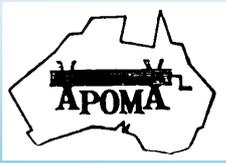
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Ian Wood, Vice President Sustainable Development, BHP Billiton, *HSEC London Briefing*, 2002.

GHD, *Andamooka Tank Samples Analysis*, May 2009.



7 Appendix C - Community Consultation Model

APOMA would like to propose an appropriately structured community consultation model that encourages an on-going, collaborative and transparent relationship. APOMA proposes that a more detailed Community Engagement Plan is developed and agreed upon between Andamooka and APOMA.

What to Consult About?

The aim of the community consultative process should be to report, involve and collaborate on impacts, issues that impact on both Olympic Dam and Andamooka. The Community consultation should include the following:

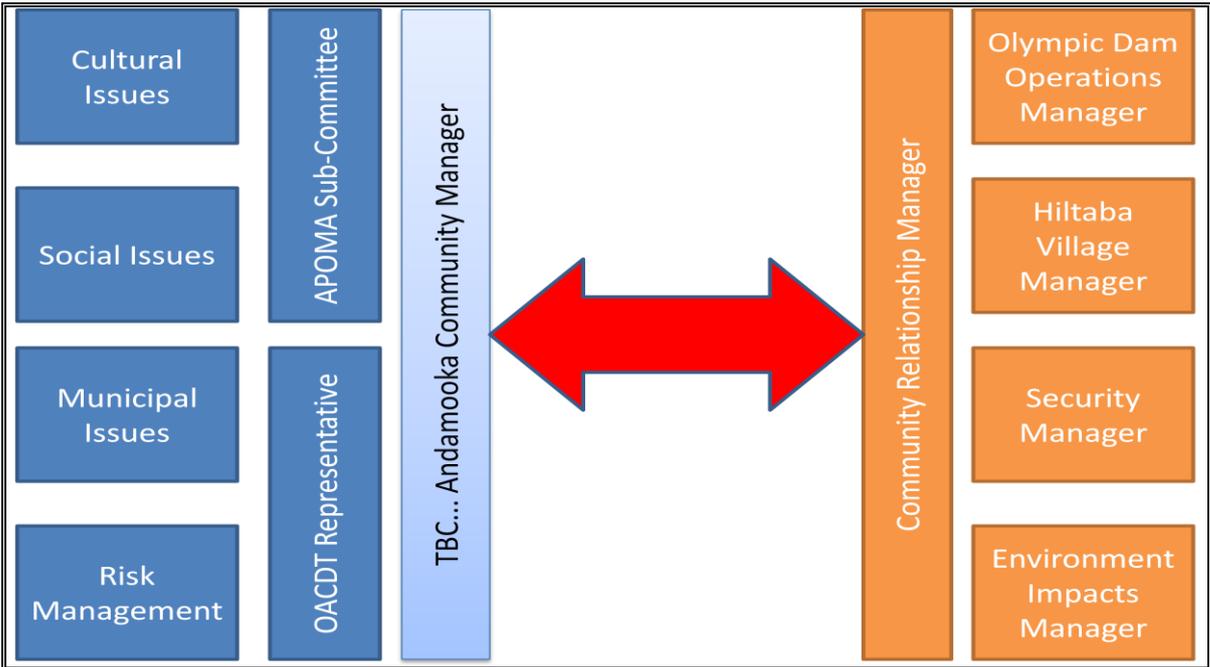
- Reporting on the ODX Project progress;
- Reporting on agreed environmental, social and economic indicators;
- Changes to the proposed project as described in the EIS;
- Managing risks and issues; and
- Identifying opportunities to collaborate.

Relationship Consultation Information Flow

Below is how APOMA understands the information flows to be between Andamooka and BHP Billiton.

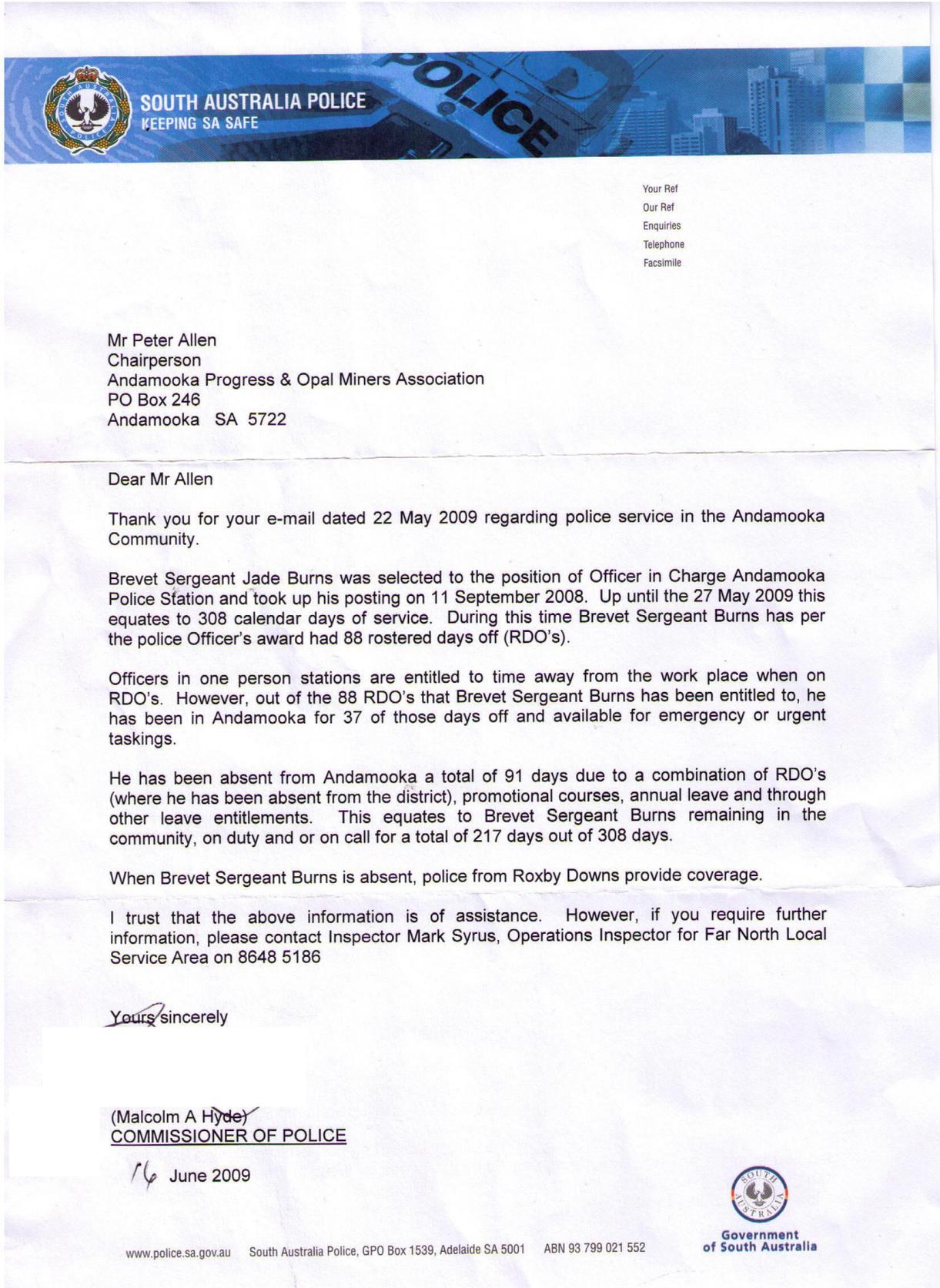
Important Note: There will need to be a clear process for grievances that require immediate action and support from BHP Billiton stakeholders. The major concern is if BHP Billiton or sub-contracted employees are in Andamooka and there is an issue of anti-social behaviour or peoples’ safety.

Community Consultation Map





8 Appendix D - Police Coverage in Andamooka



Mr Peter Allen
Chairperson
Andamooka Progress & Opal Miners Association
PO Box 246
Andamooka SA 5722

Your Ref
Our Ref
Enquiries
Telephone
Facsimile

Dear Mr Allen

Thank you for your e-mail dated 22 May 2009 regarding police service in the Andamooka Community.

Brevet Sergeant Jade Burns was selected to the position of Officer in Charge Andamooka Police Station and took up his posting on 11 September 2008. Up until the 27 May 2009 this equates to 308 calendar days of service. During this time Brevet Sergeant Burns has per the police Officer's award had 88 rostered days off (RDO's).

Officers in one person stations are entitled to time away from the work place when on RDO's. However, out of the 88 RDO's that Brevet Sergeant Burns has been entitled to, he has been in Andamooka for 37 of those days off and available for emergency or urgent taskings.

He has been absent from Andamooka a total of 91 days due to a combination of RDO's (where he has been absent from the district), promotional courses, annual leave and through other leave entitlements. This equates to Brevet Sergeant Burns remaining in the community, on duty and or on call for a total of 217 days out of 308 days.

When Brevet Sergeant Burns is absent, police from Roxby Downs provide coverage.

I trust that the above information is of assistance. However, if you require further information, please contact Inspector Mark Syrus, Operations Inspector for Far North Local Service Area on 8648 5186

Yours sincerely

(Malcolm A Hyde)
COMMISSIONER OF POLICE

16 June 2009



9 Appendix E – GHD Tank Sample Analysis

(Preliminary Report)

Page : 4 of 5
 Work Order : EM0904937
 Client : GHD SERVICES PTY LTD
 Project : 3315011 - Andamooka Tank Samples

Client sample ID
 Client sampling date / time

Analytical Results

Compound	CAS Number	LOR	Unit	ATS-001 28-MAY-2009 15:00 EM0904937-005	ATS-002 28-MAY-2009 15:00 EM0904937-006	ATS-003 28-MAY-2009 15:00 EM0904937-007	ATS-004 28-MAY-2009 15:00 EM0904937-008
Sub-Matrix: SEDIMENT							
EA055: Moisture Content			%	43.2	44.0	55.6	48.2
^ Moisture Content (dried @ 103°C)							
ED040N: Sulfate - Calcium Phosphate Soluble (NEPIM)			mg/kg	60	<50	60	230
Sulfate as SO4 2-							
ED042T: Total Sulfur by LECO			%	0.09			0.13
Sulfur - Total as S (LECO)							
ED093S: Soluble Major Cations			mg/kg	20		10	20
Calcium							
EG005T: Total Metals by ICP-AES			mg/kg	29	47	77	63
Copper							
			mg/kg	21300	22700	25400	30000
Iron							
			mg/kg	154	149	123	228
Lead							
EG020T: Total Metals by ICP-MS			mg/kg	0.3	0.2	0.3	0.5
Bismuth							
			mg/kg	0.8	0.8	1.5	1.1
Uranium							
EK085M: Sulfide as S2-			%	0.07			0.09
^ Sulfide as S							

A Campbell Business Limited Company



(Preliminary Report)

Page : 5 of 5
 Work Order : EM0904937
 Client : GHD SERVICES PTY LTD
 Project : 3315011 - Andamooka Tank Samples

Analytical Results

Compound	CAS Number	Client's sampling date / time	Client's sample ID	ATW-001	ATW-002	ATW-003	ATW-004	QC1
	LOD	Unit		28-MAY-2009 15:00	28-MAY-2009 15:00	28-MAY-2009 15:00	28-MAY-2009 15:00	[28-MAY-2009]
				EM0904937-001	EM0904937-002	EM0904937-003	EM0904937-004	EM0904937-009
EA005: pH	---	0.01	pH Unit	7.60	6.53	6.54	7.10	---
EA015: Total Dissolved Solids								
^ Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	136	56	128	76	---
ED040F: Dissolved Major Anions								
Sulfate as SO4 2-	14808-79-8	1	mg/L	43	20	52	23	---
ED045P: Chloride by PC Titrator								
Chloride	15887-00-6	1	mg/L	12	6	14	4	---
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	27	8	19	9	---
Sodium	7440-23-5	1	mg/L	6	4	8	4	---
EG020F: Dissolved Metals by ICP-MS								
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	0.006	0.007	0.005	0.002	0.002
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.002	<0.001	<0.001
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EK057G: Nitrite as N by Discrete Analyzer								
Nitrite as N	---	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	---
EK059G: Nitrate as N by Discrete Analyzer								
^ Nitrate as N	14797-55-8	0.01	mg/L	1.51	1.86	3.67	0.96	---
EK059G: NOX as N by Discrete Analyzer								
Nitrite + Nitrate as N	---	0.01	mg/L	1.51	1.86	3.67	0.96	---



10 Document Control

This is a managed document authorised by APOMA:

Authorisation:

Name	Position	Endorsement Date	Signature
Peter Allen	Chairman, APOMA		
Jim Scollon	Senior Consultant, Birchman Group		

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Distribution List:

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1	07/08/09	SA Planning/BHP Billiton
2	07/08/09	OACDT
3	07/08/09	Lyn Breuer, SA State Member for Giles
4	07/08/09	Andamooka Town Manager
5	07/08/09	Andamooka Community Hall
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