



Note that minutes are paraphrased to an extent and may not exactly match actual statements.

Project	Gloucester Coal Seam Gas Project	From	Michael Ulph
Subject	Community Consultative Committee	Tel	4910 7788
Venue/Date/Time	Thursday 12 December Gloucester Country Club, 10.10am – 12.00noon	Job No	21/17714
Copies to	All attendees		
Attendees	Ian Shaw – AGL Lands Officer Alison Crocker – AGL Community Relations Manager Toni Laurie – AGL Land and Approvals Manager Ed Robinson – Lower Waukivory Residents Group Dr. Gerald McCalden – The Gloucester Project Rod Williams – Community Representative Jerry Germon – Community Representative Ray Dawes – Barrington Gloucester Stroud Preservation Alliance Kirsty Hughes – Mid Coast Water (representing Anna) Clr Aled Hogget – Gloucester Shire Council Clr Tony McKenzie – Dungog Shire Council David Mitchell – Avon Valley Landcare Michael Ulph – GHD (Chair) Lilen Pautasso – GHD (Minutes)	Apologies	Anna Kaliska – Mid Coast Water Clr Karen Hutchinson – Great Lakes Council Clr David West – Mid Coast Water Graham Gardner – Gloucester Shire Council
	Observers / Presenters Alex Kennedy-Clarke – Gloucester Project Manager Melissa Ryan – Gloucester Project Officer Gavin Comber – Aeromag	Others not present	Lee McElroy – Port Stephens Council Lisa Schiff – Great Lakes Council Dan Rose – CEO, Forster Local Aboriginal Land Council



Notes	Action
<p>Michael Ulph (Chair) <i>Welcome and Acknowledgement of Country</i></p> <p>Meeting commenced at 10:10am</p>	
<hr/> <p>2. Meeting agenda</p> <ul style="list-style-type: none">• Welcome, apologies and introductions• Action items from previous meetings and acceptance of last meeting minutes• Project Update (Toni Laurie)• Community Engagement update (Alison Crocker)• Aeromag survey update (Gavin Comber)• General business• Next meeting and close of formal proceedings• Lunch	
<hr/> <p>3. Action items from the last meeting</p> <p>Action items from the previous CCC were reviewed. Michael asked the CCC if there were any other questions in relation to the action items or previous meeting minutes.</p> <p>Action 1 – Toni to investigate if the REF can be divided into separate sections on the AGL website</p> <p>Yes. It has been done and is currently on the AGL website.</p> <p>Action 2 – AGL to provide a link to the Camden preliminary methane monitoring report once received.</p> <p>Alison stated that this report has been submitted to the CSIRO and will be reviewed by them. Once this review has occurred then it will be issued publicly, hopefully early in the new year.</p> <p>Action 3 – David Moss’ presentation to be made available to CCC</p> <p>Action complete.</p> <p>Action 4 – Graham Gardner to provide a methodology for the bioregional assessment to the CCC</p> <p>Action complete.</p> <p>The last meeting minutes were moved by Ray Dawes and seconded by Rod Williams as a true and correct record. One member of the CCC stated they did not accept the meeting minutes because they arrived a month after the meeting. This has been noted.</p>	

AGL to provide the Camden preliminary methane monitoring report to the CCC once reviewed by CSIRO



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3. Project update:

Toni Laurie provided an update of the Gloucester project to the CCC. A hard copy document summarising recent activities was also provided to the CCC. Some key points are summarised below:

- Front End Engineering Design (FEED) process is ongoing
- In relation to current exploration activities, AGL is taking advantage of the work over rig that has arrived from Camden.
- Waukivory 3 well was plugged and abandoned on 9th December, 2013.
- The work over rig is currently on Faulkland 3 and will move on Monday to Waukivory 14.

CCC: Can you give a bit more context as to what a workover rig does and what it is?

TL: It depends on the well itself. For Waukivory 3 and F3 it's a plug and abandon whereas for Waukivory 14 they are preparing the well. It's a maintenance rig, effectively, but I will have to get back to you on the technical aspects of its use.

Toni to get back to CCC on the technical details of how the workover rig is being utilised in Gloucester

- AGL submitted a preferred activity report that narrows down on some of the options proposed in the original REF. It also provides response to the queries from the Department

CCC: is that the report that's on the website?

TL: yes.

CCC: I tried downloading it but I couldn't get it to work

TL: We will fix that.

AGL to fix any links not working on the project website

CCC: Are they in the appendices?

AC: No it's a report that can be found on the news page of the website. We will need to fix the link so you can access the report.

Toni Laurie provided a water update on behalf of John Ross.

Groundwater Investigation Program:

i. Groundwater monitoring program

Ongoing quarterly monitoring program across whole network

Brief quarterly monitoring update completed and released in November

ii. Waukivory Drilling and Pilot Testing Program

Part of quarterly monitoring program – *another baseline sampling event occurring in advance of proposed fracture stimulation and flow testing program*

Workover/conversion of WKmb04 monitoring bore failed and monitoring bore had to be plugged and abandoned in November



Notes	Action
<p>Drilling of WKmb05 (as a geophone monitoring location) under way. <i>Conversion of the hole to a water monitoring location proposed for immediately after the fracture stimulation program.</i></p>	
<p>iii. New drilling program and monitoring network expansion New monitoring bores towards Wards River commenced in November 2013 and completed early December. Three out of 4 locations completed. <i>Last remaining monitoring bore will be completed in 2014. New monitoring bore site towards Weismantels planned for drilling and completion in Q1/Q2 2014</i></p>	
<p>iv. Other water studies: Surface water hydrology studies commenced. <i>Report for completion in December/January</i></p>	
<p>Phase 3 numerical groundwater modelling commenced – two models: local scale (fault) model and regional model proposed. <i>Local scale modelling underway (Final draft expected January). Regional model to follow.</i></p>	
<p>Irrigation Trial Program: Lucerne and forage sorghum planted and irrigation program underway. <i>Summary soil and crop performance report due for release in December.</i> Monitoring programs completed in November (both soil and water). <i>6-monthly reporting proposed for January with report releases in February.</i></p>	
<p>CCC: There is mention of WKMB04 failing. What's does 'failed' mean? TL: I'm not exactly sure why WKMB04 is noted as having 'failed'. John will have more information so I will speak to him and find out.</p>	<p>Toni to investigate why WKMB04 was plugged and abandoned</p>
<p>CCC: How far apart are WKMB04 and WKMB05? IS: About 600 metres.</p>	
<p>CCC: So, just to clarify, WKMB04 has been plugged and abandoned? TL: Yes, that's correct.</p>	
<p>CCC: Do these wells have a relationship to the pilot wells you're putting in? TL: Yes. These are the deep monitoring bores that will used to gather baseline data and data when we fracture stimulate.</p>	
<p>CCC: Are there maps showing the locations of the wells available on the website so we can see the wells and how close they are to each other? TL: We have provided maps previously to the CCC, however they are</p>	<p>AGL to investigate the possibility of having maps on the project website that identify well sites</p>



Notes

Action

not on the website as yet,

CCC: It would be useful to have a map available to give us a point of reference and better understanding. If something like that can be put on the website that would be good.

TL: Yes, we are currently in the process of updating the website so we will note down to investigate if that can also be part of this update.

4. Community Engagement Update – Alison Crocker

Alison Crocker provided an update to the CCC recent community engagement events. AC issued a summary of some social research undertaken by AGL to members of the CCC. This research included the Hunter, Camden and Gloucester.

AC: There were some interesting results, particularly for Gloucester which states at 47% of residents believed that this project would provide cheaper cleaner energy, local financial benefits and increased employment. AGL did this research in September.

CCC: This type of research concerns me because there wasn't a structured proforma, just a conversation between the survey recipient and AGL. Can we have a copy of the questions, at least?

AC: We had a set of questions that were asked consistently for each survey. However, we're not issuing them publicly, but we can take your concerns on board.

CCC: I think that is a bad decision. As a CCC member, we should be looking at these questions and deciding whether they are prompted to then have faith in the results.

AC: The questions are just as you see them on the document I've issued, but we won't be releasing the proforma.

CCC: The problem is that, without context, the results are meaningless. Any valid survey would release a methodology and, given that AGL is unwilling to do so, then it appears they have something to hide.

CCC: I fully support the comments being made about the survey. In my career I've done a lot of social research and it's quite correct that you can devise a survey any way you want to get certain responses. I have asked for the questions and the variations of the questions from AGL across different regions and I've been refused. I think it's unacceptable and that they are trying to hide something.

Many members of the CCC agreed with the concerns, and that there needs to be transparency about this survey.

AC issued document that outlined the key activities. No further questions were raised about these activities.



Notes	Action
5. Aeromag Survey Update – Gavin Combers	
<i>A presentation on the aeromag survey undertaken in the Gloucester Basin was provided to the CCC. This information is commercial-in-confidence.</i>	
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6. General Business	
CCC noted concerns with the concept model not being proved and independently verified. A discussion was had surrounding this matter (in relation to the presentation by AGL on the aeromag surveys) and how they would assess the validity of the concept model.	
CCC: How will the bioregional assessment be used to confirm the concept model? Will it speak to the issues we have discussed? AH stated that this question might be best answered by a representative from Gloucester Council. AH issued an email to Graham Gardner so that it can be discussed in the next meeting. AH offered to share this email with the CCC via the chair.	AH to forward the email issued to Gloucester Council to MU for distribution to the CCC
CCC: Some residents noticed that there was activity happening in Forbesdale (Harris property) recently with a drill rig. I didn't get any information about the drill. Was there an update?	
TL: No there wasn't a public update because all of the work was happening on this landowner's property. The next door neighbours were also notified. There wasn't a general update, only to the persons involved.	
CCC: I would suggest that this is too limited because people did notice and made comments about it to me. TL: Noted.	
CCC: An ad has appeared twice in the Gloucester advocate and in other newspapers in other regions. I am just wondering what message is being communicated with the image? [of a family walking in grassland]	
CCC: With respect, what do you want us to say?	
CCC: I want AGL to say something.	
MU: the caption reads 'working side-by-side with community'.	
CCC: So would you be happier with the image not being there?	
CCC: Not necessarily, but I just find it puzzling that this photograph is being used repeatedly. If AGL can't really answer this, that's OK.	
CCC: I wanted to talk about the recommendations to do pilot fracking in the Gloucester Basin. I can't recall Dr Rick Evans advising AGL to hydraulically fracture pilot wells. Can AGL tell me	



Notes	Action
<p>where Rick Evans stated that the pilot wells should be fracked? He did not to my knowledge say that the pilot wells could be fracked.</p>	
<p>TL: Recommendations were to get the data from the Waukivory pilot wells. I will take this on notice and clarify this with John Ross.</p>	
<p><i>A CCC member read out an excerpt from a magazine regarding the amount of methane that is burnt off during flaring.</i></p>	
<p>CCC: Can AGL verify that produced water will have zero dissolved methane and guaranteed 100% combustion of methane? I want to know that you would only finish with CO2 in the produced water.</p>	<p>AGL to provide a response regarding the hydraulic fracturing of the Waukivory pilot wells</p>
<p>CCC: If you know that you can't get complete combustion, why ask that question?</p>	
<p>CCC: The question is why was it not discussed by AGL in its REF and what is the residual methane level to be in produced water?</p>	
<p>TL: I will have to take this as an action item. I note that it is a requirement under our approvals to flare the gas and the flares have been designed to meet the requirements through that process.</p>	
<p>CCC: there's been no discussion on the monitoring of that.</p>	
<p>TL: this is a technical operational question and I will follow it up for you.</p>	<p>AGL to respond to the query regarding the residual methane level found in produced water and how much methane can be combusted when flared</p>
<p><i>A note was made on the record regarding the magazine excerpt read out to the CCC. This information comes from the New Scientist. It was a letter to the editor in edition 10th April 2010 referring to a 20th February article 2010 page 38.</i></p>	
<p><i>General discussion was held by the CCC regarding this statement and request for full disclosure of the complete article by the other members of the CCC</i></p>	
<p>CCC: Given the movement of rigs is a sensitive issue with it clear that there will be protest activity I wonder if it is possible to outline where the rigs are and when they are going to be moved in advance. So we're not constantly fielding questions about them, AGL could run a summary with their weekly ads.</p>	
<p>TL: We will take that suggestion on board.</p>	
<p>CCC: I noticed last Sunday at 2:20pm a prime mover with a load of pipes travelling down Fairbairns' road. I wouldn't have noticed except I saw the AGL sticker on the back. Why was the truck on the road on a Sunday?</p>	
<p><i>AGL representatives were not aware of this movement but noted that this was likely going to the Tiedmans' property.</i></p>	<p>AGL to consider including a summary on rig movements in adverts published in the newspaper</p>
<p><i>CCC: so if you hadn't have seen the sticker you wouldn't have noticed?</i></p>	
<p><i>AGL representatives suggested that the CCC member make a formal complaint so that they can investigate and formulate a response.</i></p>	
<p>CCC: I wanted to bring the attention back to an action that I don't think has been closed out. It was in relation to the creation of</p>	



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150,000 jobs as a result of this industry. APPEA said they would refer me to the website but didn't give me more detail. I was given another reference by Ian Shaw, but this doesn't respond to my question regarding what a job is and what that means for us.

CCC: I would question whether this is an issue for AGL and [suggest] that you should go back to APPEA if they haven't satisfied your query.

CCC: I have done that, but I will have to keep trying.

No further business was raised.

8. Next meeting

Meeting closed at 12:00 pm.

Next meeting to be held in the new year on 20th February from 10am, at the Gloucester Country Club.

Michael Ulph

GHD – Stakeholder Engagement



ACTION ITEMS			
Action	Responsibility	Complete	Outcome
AGL to provide the Camden preliminary methane monitoring report to the CCC once reviewed by CSIRO	Alison Crocker		
Toni to get back to CCC on the technical details of how the workover rig is being utilised in Gloucester	Toni Laurie		
AGL to fix any links not working on the project website	Alison Crocker		
AGL to issue a copy of John Ross' water update to the CCC	Toni Laurie		
Toni to investigate why WKMB04 was plugged and abandoned	Toni Laurie		
AGL to investigate the possibility of having maps on the project website that identify well sites	Alison Crocker		
AH to forward the email issued to Gloucester Council to MU for distribution to the CCC	Clr Aled Hogget		
AGL to provide a response regarding the hydraulic fracturing of the Waukivory pilot wells	Toni Laurie		
AGL to respond to the query regarding the residual methane level found in produced water and how much methane can be combusted when flared.	Toni Laurie		
AGL to consider including a summary on rig movements in adverts published in the newspaper	Alison Crocker		