



**NB: These are draft minutes only – to be ratified at the next CCC meeting. 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 15 September 2016 Gloucester Country Club 10.00am – 12.00pm	Job No	21/17714

Copies to All attendees

Attendees	Jerry Germon [JG] – Community Representative Rod Williams [RW] – Community Representative James Duggleby [JD] – AGL Hydrogeological Specialist Nicky Coombes [NC] – The Gloucester Project Karyn Looby [KL] – AGL Community Relations Manager Andrew Adorini [AA] – AGL Operations Superintendent Anna Kaliska [AK] – Mid Coast Water Michael Ulph [MU] – GHD (Chair) Alexandra Parker – GHD (Minutes)	Apologies	Clr Katheryn Smith [KS] – Mid Coast Council Clr Karen Hutchinson [KH] – Mid Coast Council Clr Tony McKenzie [TM] – Dungog Shire Council Ed Robinson [ER] – Lower Waukivory Residents Group
	<b>Observers / Presenters</b> Ben Eastwood [BE] - AGL Environment Manager	Others not present	Paul Minett – Dungog Shire Council Lee McElroy – Port Stephens Council Lisa Schiff – Mid Coast Council Les Seddon [LS] – Port Stephens Council Tony Summers [TS] Stuart Redman [SR] – Gloucester Business Chamber Ray Dawes [RD] – Barrington Gloucester Stroud Preservation Alliance

## Notes

## Action

**Michael Ulph (Chair)**

*Welcome and Acknowledgement of Country*



## Notes

## Action

*Introductions for Ben Eastwood AGL and farewell to James Duggleby AGL (Final CCC meeting James will attend).*

*Apologies Katheryn Smith, Karen Hutchinson, Tony McKenzie and Ed Robinson*

*Meeting commenced at 10:11 am*

**MU:** I will call to accept the last minutes from 16 June 2016 and extraordinary meeting on 1 July 2016 as a true and correct record.

*Moved: Jerry Germon and seconded: Nicky Coombes*

### Meeting agenda

- Welcome, Apologies, Introduction
- Acceptance of last minutes and matters from the previous meeting
- Project update (Andrew Adorini)
- Water update (James Duggleby)
- Morning tea break
- Community Engagement update (Karyn Looby)
- General business
- Next meeting & close of formal proceedings
- Lunch

### Action items from the last meeting

Action	Response	Additional notes
Provide copy of legislation to CCC that clarifies the codes of practice statement.	Code of Practice for Coal Seam Gas Well Integrity. 4.9.2 b. I will have a couple of copies on the day for meeting.	
Clarify statement codes of practice of resources and energy and its stated that wells had to be plugged and abandoned within three months of that notification	Letters approving P&A activity for each well specifically addressed cond. 4.9.2 (b) timeframe and allowed an extension of this time period beyond the three months	Approval from DRE
Confirm if Legacy funding will allow for the entire fund to be awarded to a single project.	We received a number of applications through the EOI process for the first funding round, and there were nil applications for \$2 million. In	



Notes		Action
	theory, it is possible, but didn't occur practically.	
Michael to confirm extraordinary meeting date and time	Meeting occurred 1 July 2016	
Evelina to see if plugged well locations can be included as a mandatory part of land titles?	No response to date.	Since Extraordinary meeting Evelina has finished her role at DRE. Colin White is following up and will respond to distribute response to CCC.
Michael to distribute link to Chief Scientist reports.	Actioned	

**Colin to see if plugged well locations can be included as a mandatory part of land titles?**

**Michael to distribute Colin's response to CCC.**

**Project Update – Presented by Andrew Adorini**

**AA:** We have fully cemented nine wells, backfilled eight of those so far and put a pressure welding plate on top which is 1.5 metres below. Craven six is a bit deeper because the coal mine wanted it a bit deeper. We have done service rehabs on four wells.

**MU:** Is that to take away the top infrastructure?

**AA:** That's already gone. If there is a cut and fill, we will put it back into the natural landscape. We have photos from before we came on site and we will make it return to that state. We will return to the same slope and seed. EPA have been out to most of them and inspected. It's a 6-month regulatory handover process. They have seen that we have sown the seed and levelled it out. We keep fences up around those sites until the crop takes off. It is all moving along well. Out of those wells, only one of the P and A's was part of the Waukivory Pilot, Waukivory 13, we are currently on Waukivory 11.

**RW:** How many wells in total are there?

**AA:** 15 including WKMB05 which was a water monitoring well but we still did that to standard. After Waukivory 11 we have Waukivory 12, Waukivory 14 and Stratford 8, Stratford 9 and one down south at Wards River.

**RW:** Is your timeline is on track?

**AA:** Yes. The rig should be finishing up late November or early December. Our surface rehabs will be complete a month after that.

Other than that we are selling off equipment and moving everything away that we can. Our steel stock pile at the yard will be cut into cattle yard sizes (3 metre pieces) and we will be selling that to the town. We will get adds out in the paper and sell it through the



Notes	Action
<p>paper rather than in bulk. We have spoken to our local operators and they said that they will get it in the form/sizes that it will be useful to the town, as strainer posts etcetera.</p>	
<p><b>JG:</b> When will that be?</p>	
<p><b>AA:</b> When we finish, we will probably start in the next month. We are open to advice and suggestions.</p>	
<p><b>JG:</b> So it will just be an ad in the paper? First in best dressed?</p>	
<p><b>AA:</b> The plan is not to allow bulk sales. We have already had people say they want it all. But it's for people locally so it will have limited amounts.</p>	
<p><b>MU:</b> Can we have photos of the rehab for next time?</p>	<p><b>Andrew to provide rehab progress photographs for inclusion in the Meeting Minutes.</b></p>
<p><b>AA:</b> We can distribute those to be put into the minutes.</p>	
<p><b>KL:</b> There is also an offer for site visits.</p>	
<p><b>AA:</b> Stratford 10 has all the rehab finished but they wanted to keep their pad so we are rehabbing the well and re-laying it to a flat pad because that is their choice. Some are already cropped. You could see different stages of the process on a site tour.</p>	<p><b>Organise CCC site visit. AGL to organise travel, Michael to confirm timings.</b></p>
<p><i>CCC agreed to the organisation of a site visit before next meeting.</i></p>	

**Water Update – Presented by James Duggleby**

- Water quality data sets required under our EPL are published on the AGL main website under:  
<http://www.agl.com.au/about-agl/how-we-source-energy/monitoring-data>  
(note these data reports are comprehensive and reports are split into Irrigation Program reports and Waukivory Pilot reports)
- All technical/scientific reports continue to be released, published and archived on the AGL Gloucester website at <http://www.agl.com.au/about-agl/how-we-source-energy/natural-gas/natural-gas-projects/gloucester-gas-project>
- Technical/scientific reports relating to the Waukivory Pilot Project are published and archived on the AGL Waukivory website at <http://www.agl.com.au/about-agl/how-we-source-energy/natural-gas/natural-gas-projects/gloucester-gas-project/waukivory-pilot-program>

**Groundwater Investigation Program:**

1. Groundwater monitoring program:
  - Final 4-monthly (water level) monitoring download across whole network (Jun 16).
  - Final 4-monthly FY16 monitoring update report – published July 2016.
  - Final annual status report for FY16/17 –published 6 September 2016.
  - All AGL water monitoring ceased on 22 June 2016.
  - All monitoring bores (except those that remain on the EPL) are in the process of being decommissioned (plugged and abandoned or retained for future owners).



Notes	Action
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**JD:** At the last meeting I said there were a few outlier wells that DPI were interested in taking on. DPI have ended their interest in the wells. They could not reach a conclusion in their negotiation with landholders.

**RW:** There hasn't been any handover?

**JD:** No. We offered them and stepped back to let the negotiations happen between DPI Water and the landowners.

**RW:** In those cases, do they remain for the landowners use?

**JD:** We will go in and plug and abandon those ones.

- All surface water monitoring gauging locations have been decommissioned and removed (except for one location at Waukivory retained for GRL).

**AK:** So who took the Waukivory?

**JD:** One on Waukivory Creek that was part of the Waukivory project. It was on GRL land so they had an interest in maintaining that so we handed it over, now they have their own locks on it and everything.

Everything else has either had insulation retained as a box on the riverbank or is decommissioned.

2. Waukivory Pilot Testing Program:
  - All surface and groundwater monitoring ceased on 22 June 2016. All monitoring locations have been decommissioned and will be plugged and abandoned in the coming weeks.
  - Data from the baseline investigation and pilot testing program was collated and analysed and the results assessed and presented in a detailed final technical report published within six months of the completion of the Pilot (4 August 2016).

**Tiedman Irrigation Program:**

- Additional water sampling round (for EPL compliance) was undertaken in August 2016.
- Additional water sampling rounds (for EPL compliance) will be undertaken in November 2016.
- Report to be published by 30 September 2016 detailing results of final soil sampling (as a requirement of Condition U2 in EPL20358).

**Tiedman Water Storages**

- Produced Water Management Plan and EPI variation to cover treatment and reuse of stored water to be submitted to DRE/EPA for approval in Sept/Oct 2016.

**RW:** How long will that continue for?

**JD:** That continues for as long as those wells are on the EPL, which will be varied coming months. At the moment it contains Waukivory points which will need to be removed.



## Notes

## Action

It's a live document changing throughout the project. There will be quarterly monitoring in November.

The remaining water resources interest on their site is in the three dams. Of the three dams we now have water in all three, there is 30 ML in total. We had some sediments in the base of the south and the north dam. Over the last few weeks we have been removing sediment from the south dam. So now the south dam is clean and you can see the PVC liner as there is no water or sediment. All the water has been decanted to the north dam. The plan for the sediment now is to move the water back into the clean south dam and do the same thing. We have had that sediment classified as general solid waste, we tested the sediment so that means it is to be disposed of offsite to a licenced facility. We are waiting on contractors at the moment to finalise the detail. It can go to a local Gloucester or Newcastle site. But it will be a local place.

**JG:** How much is there?

**BE:** Around 3000 tonnes.

**JG:** That is a fair bit.

**JD:** What is happening, is that when we were pumping the river to blend, there was sediment coming up.

**BE:** This is the material of about eight years of collection.

**RW:** How did you retrieve it?

**BE:** We worked through a number of scenarios, either let it dry out and excavate it out, or we could pump out sludge.

**JD:** Our preferred option is to dry it. We don't want to be transporting it wet.

**JG:** The only problem with that is you could damage the liner.

**BE:** Yes, and that's why we have transferred all the water from the south to the north so we only damage the one liner.

**JD:** We were discussing as a business the idea of putting a mobile water treatment facility on site. We have discussed it internally and in detail with the EPA. If you have this intensive treatment you create a waste product. The efficiency is around 10 – 20 per cent so out of 30 Mega Litres we have now, if you put in intensive treatment can create 3 – 6 Mega Litres of brine saline waste which then needs to be disposed of offsite. If you put that through a risk assessment you create hazards all the way through. Could include up to 700 trucks taking it to QLD, you just create risks.

Our preferred option with EPA is as the water meets the irrigation guidelines is to be treated to remove the sediment, filtered to remove any suspended sediment, condition the water so that it meets irrigation [guidelines] so the PH is slightly elevated and irrigate using existing irrigators.

**AK:** The volume of the water has increased. It was much less but had a higher conductivity. That that just because of rainfall?

**JD:** Yes, it is because of rainfall. When we had dominant produced water in there, the salinity was around 7000. Since then we have had it around 700-800, its 10 times less. It is slightly higher than rain water but that's from being in the dams and the presence of the sediment. At the moment it is well within the guidelines.



Notes	Action
<p><b>AK:</b> In the top, but within.</p>	
<p><b>JD:</b> To put that in perspective, for our irrigation trial we had it around 2000. This is a better quality water than we were irrigating. We don't want to produce 6 mega litres of brine etc. We don't have sign off from our executor yet but EPA are on board and they don't want to see 700 trucks moving around the place either. It would be expensive, issues with power, emissions etc.</p>	
<p><b>AK:</b> What is the timetable?</p>	
<p><b>JD:</b> Once the water has been through an RO plant [reverse osmosis] you strip it of a lot of minerals that you need to irrigate, so you then need to recondition the water. You have this brine waste stream and then you have this permeate but essentially it is still a waste until you recondition it.</p>	
<p><b>AK:</b> It is expensive and high energy, and there is no need for that, because your conductivity is low.</p>	
<p><b>JD:</b> Exactly. So that's hopefully where we'll go. There are a few approval documents to submit to DRE and EPA which will outline the closure plan which will have the control measures listed and such as the analysis of the water to show it meets guidelines and ongoing sampling and analysis of shallow ground water. Then a final check on the soils at the end of the program to compare before and after.</p>	
<p><b>BE:</b> We are presenting to the AGL Board and General Manager next week. If that is successful with the irrigation proposal, then we have revised the Water Management Plan and will submit a Licence Variation Application. Then EPA have 60 days to respond. We are hoping to get that application in in the first week in October and have approval to irrigate in December.</p>	
<p><b>JG:</b> It makes sense to irrigate rather than the cost to recondition it.</p>	
<p><b>RW:</b> What's the story with the infrastructure going forward?</p>	
<p><b>JD:</b> We will retain the dams and have requested to maintain the irrigator to grow the crops, and having those dams as offline storage is really useful.</p>	
<p><b>BE:</b> The dams will remain as is.</p>	
<p><b>RW:</b> Is there a requirement for them to remain lined?</p>	
<p><b>JD:</b> There isn't, but the liner is there to prevent erosion. The liners were put there to keep the integrity of the dam. The EPA will sign off on an empty dam on each of the three dams. We have that for the south [dam] already.</p>	
<p><b>RW:</b> Is there any obligation on future land owners to maintain the integrity of the liners?</p>	
<p><b>JD:</b> Not really, but there is the fencing that will remain around dams.</p>	
<p><b>BE:</b> We will only handover the responsibility once the PEL is signed out and obligations cease. The Department and EPA will have to be satisfied and sign off.</p>	
<p><b>JD:</b> It is not a cost decision, the reason we have to go back to the General Manager is because we are seeing from a technical side and from the risk assessment of trucks that it is not necessary.</p>	
<p><b>AA:</b> We have been approaching contractors and saying we want to get to ANZECC guidelines quality and they say it is already at that quality. When we met with the EPA,</p>	



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the EPA said it is more concerned around irrigating to permeate because of crops etc. In the end it doesn't pass the logic test to treat water that doesn't require treatment.

**BE:** There is a large enough budget to take all three dams out, if there is any issue.

**AA:** It's because it doesn't pass logic test but money is there to do the most expensive option if we choose.

**JG:** That's illogical after spending all those thousands to build them in the first place.

**AK:** We have irrigation schemes on the coast. It is the same guidelines for water recycling.

**JG:** When is property likely to be sold?

**AA:** We could speak to Toni about it. I think we wouldn't be selling until we are signed off. Around the start of next year.

**RW:** When do these obligations finish?

**AA:** The monitoring, we don't know how long that will be yet.

**NC:** The Burrell property. When will that be sold?

**AA:** We'd have to speak to Toni, but I believe all property will be sold as a job lot.

**RW:** Your surface water licence, irrigation licence?

**JD:** We have a 32 mega litre licence. You struggle to get to that [volume].

**RW:** Do you intend to make that available to future land owners?

**JD:** Yes.

**AA:** The pumps that are there. It is being left as an operating asset because the land renters are still going to be there until we are gone at least.

**MU:** The sediment in dams will be taken to landfill, is that subject to the NSW waste levy?

**BE:** Yes, 3000 tonnes.

**MU:** So for every tonne are you paying over \$100 per tonne? Plus the gate fee?

**BE:** Yes, so you might be pushing \$300 plus a tonne. That's just transport and disposal. That's not getting it out.

**AA:** It's not a cheap exercise, but it's cheap in comparison to how much it would cost to truck it to Queensland, that is an \$8-million-dollar exercise.

**BE:** Timing wise for sediment we are looking to start that in October - November. At 3000 tonnes is 60 truckloads. We would limit that to three trucks a day. It will take up to 6 weeks. That won't be continuous but will depend on weather etc. We hope to be done by the end of year or January next year.

*Break for morning tea: 10:52 am*



### Community engagement update – Presented by Karyn Looby

- Advance Gloucester meeting – 17 August 2016
  - Operations Superintendent Andrew provided a status update on the exploration wells and water monitoring bores and rehabilitation process.
  - Questions raised were:
    - Concern about dam lining being left in the Tiedman dams and the potential for loss of animal life. AGL is awaiting notification from the Dept. regarding the outcome for the dams. Consensus in that the dams left on site with liners would be a great asset.
    - Query regarding trucking the water from the P&A to QLD. AGL has abided by our compliance conditions and have licence agreements regarding the removal of water associated with our operations. All produced water from WPP was contained in AST2 which was fully decommissioned at the start of this year, after all the water had been transported to QLD.
- Science and Engineering Challenge Taree & AGL Discovery Day Dungog – August 2016
  - Attendance and support on day
- Year 10 mock interviews – 23/24 August 2016
  - Interview panel support
- Stroud Road Stroud Road Spring 'Bash 'n Bang' – 27 August 2016
  - AGL major sponsor & attendance at family event
- Gloucester High School STEM team – 8 September 2016
  - Information and planning session. Overview of current situation of STEM in schools in region. Consultation and dialogue on curriculum for 2017 and Future Focused Learning at GHS.
  - STEM and Gloucester High School public event. Students, parents, wider school community and especially school parents of year 6 students, encouraged to attend and find out more about STEM and the programs and opportunities that are in place for 2017.
  - Guest speakers David Leask from Hunter TAFE and Dr Scott Slep from Regional Development Australia (Hunter), joined High School teachers from Gloucester and Dungog to provide insight into two important programs – Fostering Apprenticeships and STEM.



## Notes

## Action

- Community Investment
  - Local Community Investment Program
    - Recipients of the funding allocated through the AGL Local Community Investment Program include:
      - Stratford Public School – School community noticeboard
      - Gloucester Worimi First People’s Aboriginal Corporation – Cultural workshops
      - Gloucester District Historical Society – Gloucester family history initiative
      - Gloucester Thunderbolts Swimming Club – Shade shelters
      - Gloucester Masonic Lodge – Gloucester Bots: leading young people into the next Industrial Revolution
      - Westpac Rescue Helicopter – 2017 donation
    - Sincere thanks to the LCIP community committee who have volunteered their time over the last two and half years to participate in the program.
      - Bruce Chong Sun, SES
      - Sheryl Tester, Youth Officer MidCoast Council
      - Bill Williams, Dairy Farmer
      - Ruth Laurie, Gloucester Chamber of Commerce and Industry
    - AGL Community Legacy Program
      - Panel met on 15 August 2016 to review EOIs
      - Successful applicants invited to submit a full application by 14 September 2016.
      - These will be assessed in October 2016.
      - The next round – EOI due 26 October, full application 14 December, assessed January 2017.
      - GCCC representatives Stuart Redman and Jerry Germon are members of the Panel.
      - [agl.com.au/gloucesterlegacy](http://agl.com.au/gloucesterlegacy)
- Regional Strategic Partnership role
  - Key activities July – August 2016



Notes	Action
<ul style="list-style-type: none"><li>▪ Assisting applicants with EOI and full applications for Gloucester Legacy Fund.</li><li>▪ Meet TfNSW with Midcoast Council to discuss feedback for Bucketts Way Route Access Strategy application to Fixing Country Roads.</li><li>▪ Assist RDA Hunter with SMART Specialisation event in Gloucester <a href="http://www.gloucesteradvocate.com.au/story/4053841/why-not-gloucester/?cs=435">http://www.gloucesteradvocate.com.au/story/4053841/why-not-gloucester/?cs=435</a>.</li></ul> <p><b>RW:</b> We went to Parliament House in Sydney. We caught up with Duncan Gay and Jodie Mackay. Jerry and Bill went to Tamworth to catch up with Barnaby Joyce. The main reason we want to catch up with them is to enforce the importance of Buckets way but also the Thunderbolts way leading up to QLD. We are conscious that people across the state are trying to do the same thing so we want to differentiate why we are different and why we should be considered before everyone else. We currently have a submission in front of Transport for NSW which is looking promising. Could be announced May next year. Last Thursday we had a delegate from labour come up and that got front page of the Dungog Advocate. We were on NBN Television as well.</p> <p>Brett's providing technical assistance and coordination.</p> <p><b>KL:</b> Face to face engagement to raise the profile of Gloucester is so important.</p> <p><b>RW:</b> We appreciate AGL's willingness to support Brett in that role. It has helped a lot of groups.</p> <p><b>JG:</b> The role he has been playing within the group meeting with Susan and local council in promoting the advancement of Gloucester. Brett has had a large role to play.</p> <ul style="list-style-type: none"><li>▪ Attend meetings with Chamber of Commerce and Advance Gloucester re Bucketts Way Route Access Strategy and Giro Upgrade projects – MPs government and opposition, Councils, &amp; agencies.</li><li>▪ Commence planning for doorknock of Sydney businesses to attract businesses to relocate from Sydney to Gloucester.</li><li>▪ Meet with Council and Rugby Club re Stage 2 of Sportsground Upgrade.</li><li>▪ Support and advice to Show Society facilitate \$20k grant for Campdraft Grandstand and \$8k grant for waste management project.</li></ul> <ul style="list-style-type: none"><li>• AGL Sustainability Report<ul style="list-style-type: none"><li>○ AGL released our FY2016 Sustainability Report on 10 August. This report is an important part of our commitment to provide transparent information to our stakeholders.</li><li>○ The report can be accessed via mobile, tablet and desktop, and can also be downloaded and printed to pdfs.</li></ul></li></ul>	



Notes	Action
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| <ul style="list-style-type: none"> <li>○ The report has been prepared in accordance with the best-practice Global Reporting Initiative’s ‘G4’ Sustainability Reporting Guidelines.</li> <li>○ The report sets out the social, environmental and economic challenges and opportunities facing the energy industry, and how we are responding to these issues so as to protect and grow the long-term value of our business.</li> <li>○ <a href="https://www.agl.com.au/about-agl/what-we-stand-for/sustainability/sustainability-report">https://www.agl.com.au/about-agl/what-we-stand-for/sustainability/sustainability-report</a></li> <li>● AGL Energy Sustainability Blog           <ul style="list-style-type: none"> <li>○ Australia’s economic transformation – summary</li> <li>○ Between 2016 and 2050 Australia may experience profound changes to our population, the way we live and how we work. With this in mind, AGL is already preparing to meet the energy needs of Australia’s future homes and businesses.</li> <li>○ <a href="http://aglblog.com.au/2016/09/australias-economic-transformation-part-1-energy-customers-of-the-future/">http://aglblog.com.au/2016/09/australias-economic-transformation-part-1-energy-customers-of-the-future/</a></li> <li>○ <a href="http://agl2016.sustainability-report.com.au/files/economic_transformation.pdf">http://agl2016.sustainability-report.com.au/files/economic_transformation.pdf</a> (Report)</li> </ul> </li> </ul> |  |
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**General Business**  
*No further general business*

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<p><b>Next meeting</b>            Site visit date and time to be confirmed.            Potential date: Wednesday 19 October  <i>Anna Kaliska is an apology for the site visit</i></p> <p>Next regular CCC meeting 15 December 2016 10:00 am to 12:00 noon  <b>RW:</b> I think we should organise the paper to attend the last meeting as it is a milestone.</p>	<p><b>Michael to confirm site visit on Wednesday 19 October 10 am.</b></p> <p><b>AGL to organise transport from AGL office to site.</b></p> <p><b>Invite local paper to last CCC meeting when confirmed.</b></p>
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*Meeting closed at 11:33 pm*

**Michael Ulph**

GHD – Stakeholder Engagement

ACTION ITEMS	
Action	Responsibility
Colin to see if plugged well locations can be included as a mandatory part of land titles?	<b>Colin White</b>
Michael to distribute Colin's response to CCC	<b>Michael Ulph</b>
Andrew to provide rehab progress photographs for inclusion in the Meeting Minutes. (See below)	<b>Andrew Adorini</b>
Michael to confirm site visit on Wednesday 19 October 10 am.	<b>Michael Ulph</b>
AGL to organise transport from AGL office to site.	<b>AGL</b>
Invite local paper to last CCC meeting when confirmed.	<b>Michael Ulph</b>



**Workover Rig in action on a well in Gloucester.**



**EPA Gas Regulation Branch site inspection of the Workover Rig during the Plug and Abandonment works.**



**Water management facility with bunding used to support the workover rig.**



Signs of plant growth in a rehabilitated area following seeding.

DRAFT