
Santos Community Consultative Committee – Narrabri Shire Meeting

Tuesday 13th August – 5:30 pm to 7:30 pm

Santos Narrabri Operations Centre
300 Lake Yarrie Road, Narrabri

1.	Welcome, apologies and introductions	5:30 – 5:35	All
2.	Previous meeting's minutes	5:35 – 5:50	David Ross
3.	Santos Operations and display: <ul style="list-style-type: none"> • Operations workshop; • Display well head, gas generator, production skid, pumps and testing equipment, drilling mat; • Telemetry monitoring display 	5:50 – 7:10	Kym Bailey
4.	General Business <ul style="list-style-type: none"> • Santos' response to recent announcements • Update • Other Business • Next meeting and issue to discuss 	7:10 – 7:30	All

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- Minutes:** Santos Community Committee - Narrabri Shire
Tuesday, 13 August 2013
Santos Narrabri Operations Centre 300 Yarrie Lake Road, Narrabri.
- Attendance:** David Ross (Chair), Nathan Melton (Santos), Scott Thurn (Santos), Annie Moody (Santos), Tony Pickard, John Tough, Ian Duffy, Ron Campey.
- Apologies:** Kym Bailey (Santos), Terry Hynch, Brendan Warnock, Annie Alexander (Santos), Michael Guest, Ken Flower, Jon Maree Baker, Victoria Hamilton.

	Discussion	Action/By Whom
1. Welcome and introductions	The chair opened the meeting at: 5.36pm Chair welcomed committee. Introduced Santos Representatives: Nathan Melton & Scott Thurn – Operator Maintenance	
2. Previous meeting's minutes	List of actions from previous meetings was discussed and updated. See Appendix 1 Meeting Action Item Response. Actions: <ul style="list-style-type: none"> - Action1: Santos to investigate the process of formalizing this committee while still seeking to get new members. Response: Santos representative in discussions with Peter Mitchley. If committee is formalized the Chair and Santos will work on terms of reference, have further discussions on quorum and advertise for additional members. Committee member comments that from reading a government website there are guidelines on how to set up a Consultative Committee, and it was noted that within 3 months since the 12 month anniversary of the committee a report needs to be sent into the Department of Resources and Energy. Committee requests to see this report before it gets sent in? Santos responds under Petroleum explorations licenses they are required to report annually in relations to all community consultation activities, unless the committee is formalized it is not necessary to specifically report on the committee individually. Committee member disagrees and Santos asks chair to check this information. Santos explains that if a report were required it would be based on the minutes. Committee member asks if the committee members are named in the 	Chair to investigate if Santos is required to submit a report on the CCC to the Department of DRE within 3 months of 12month anniversary and if being a formal committee makes a difference to the

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minutes and Santos responds the minutes are those distributed by the chair and names are only on the attendance list.

requirements.

The committee accepts the previous minutes.

- Chair would like to suggest alternative date for monthly meetings, to attract more attendees. Committee agrees next meeting to be held on Wednesday the 11th of September 2013, 5.30pm at Narrabri Shire Council Chambers.

Action on chair to contact absent CCC members to check if they are agreeable to meetings being moved to 2nd Wednesday of the month.

3. Santos Operations and display Committee members invited into Operations workshop and shown examples of:

- **Gas Generator**

- **Variable Speed Drive:** Controls speed drive head which pumps water into the coal seam.

Committee member asks if it is AC or DC? Santos explains it is a 415 AC signal (variable speed control) also a 24volt DC stand-alone.

Santos comments: This is always monitored, monitored directly to staff phones, if all else fails a mobile diesel generator can be used as a back up. If alarm is raised it can be reset remotely, but generally staff are sent to the site to check before it is reset.

- **Pump & testing equipment:** can be turned off both automatically and manually and works on pressure. SCADA.

- **Production skid:** control and monitoring. Connects to flow lines, receives, separates and stores through the gas and water lines. Currently the flow rate for most wells in the Narrabri shire area is low. PSV stands for Pressure safety valve, which makes sure it does not explode due to pressure.

Committee member asks if there is a monitoring system for the removed water. Santos responds that the removed water is monitored. Committee member asks if the skids on site are the same as the example. Santos responds that most skids are the same or similar, the only

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difference is that this example is a new one, which has a bigger separator. The tanks are slightly bigger in size.

Committee member asks if the drain line is always plugged. Santos responds it is always plugged if they are conducting maintenance.

- **Drill Bits:** example of small and larger drill bit.
- **Old well head example.**

Committee member asks if Santos has a daily chart of how much gas is coming out? Santos responds that the engineers in the operations centre monitor those trends on a daily basis, individual wells also the total of all wells. Some of that information can be found on the Santos website. Also currently any operational wells, Santos staffs are visiting to conduct daily monitoring.

5. General Business

Proposed Work Activities Update August - See Appendix 3. Santos Update August 2013.

- Santos elaborates on update; Leewood facility, contractors expected on site next month. Committee member asks if it is local businesses that are doing the work at Leewood? Santos responds that there have been six contracts issued; three contracts are to Daracon, who employ locals. Lean Field and Alliance Automation who contract to Country Energy.
- Briefings with Leewood neighbours, who received monthly update.
- Flashing signs on Newell Highway – turning traffic.
- NSW? Forestry has been doing inspections.
- Stage 1 will start to be in full gear by beginning of Sept.
- Kym Bailey is the project manager of Leewood Project.

Questions:

Committee member asks Santos why the Cement batching plant cannot be sent to Leewood rather than the Operations Centre. Santos responds, majority of staff are based at the operations site and that this has always been intended to be the Operations Centre. The Environment Protection Authority have approved the application and so if it meets the zoning and other requirements of Council then it really is no different to operations that other

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industrial companies are conducting on sites near by.

Committee member comments that a Santos representative went to Council today to speak to Council senior staff and point out how this block would comply with original development application given in 2008. Santos would like to clarify that their representative was not their putting pressure on the Council; he would have been there by invitation. It is not unusual for any company who puts in a development application to provide additional information to council at their request. Santos voluntarily withdrew the application last week as there was an anomaly identified. The Director of Planning had already made a recommendation to Council to approve the application, It was then withdrawn to enable Council to seek legal advice in relation to the zoning and also for Santos to provide further information in relation to zoning. It is not uncommon for any company with a development application to provide further information to Council.

Committee member comments that Council knew the legal ramifications of this application on the 1st of June. Santos responds that this is an issue with Council and so Santos cannot respond to allegations about that matter.

Committee member then asks why did a Santos representative talk to a Council manager two weeks previously to try to convince him that everything was alright and that his concerns about the development here were nothing, if Santos had not seen all the paper work.

Santos responds at the last Chamber of Commerce meeting a member of the public was there and approached Santos representatives, and let them know that she was one of the people that lodged a submission to the application and through the consultation process would like to know more information. So as a member of the public and as a request from an individual Santos was happy to provide further information. It is not Santos responsibility to respond to allegations against Council; such allegations should be taken up with Council.

Committee member brings up topic of land access agreements, committee member looked it up on the website today and the information is the same as it was 12months ago when the committee explained that the information was not clear, no changes have been made.

Committee member comments that there is rumour that Santos is offering \$30,000 per well site where they could put up to 5 well heads on that site. Is this true? Santos responds, yes this is true. Committee member asks then why has the website not been changed to reflect this?

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Santos responds that this brochure is correct. Committee member says that last December the committee was having trouble understanding the Land Access Brochure and so requested that staff from Santos come and speak to them about it. After the Santos presentation they were still confused and believe that the staff member said it was \$30,000 per property plus extras. And that is what is still on the brochure. Chair clarifies that the committee members present feel that the brochure needs clarification. Committee member feels that the term “well site” needs to be defined. Chair suggests that maybe the brochure might need to be re-visited. Committee member states that from his understanding that after the meeting with the Santos staff member that brochure was going to be fixed. Santos clarifies that there are still a number of landholders that are on the old Land Access Agreement, that they previously held with Eastern Star Gas so some agreements are not aligned with the current brochure. The new agreement came into place July 2012. New agreement is \$30,000 per year + in the first year 120% of the area utilized in the land rate and 60% of that land value (1 ha plus the road) per well site. E.g. in that 1 ha x 1 ha space Santos may have 3 wellheads in that one space and so it is still only the \$30,000 for that 1 ha space. Santos confirms that they will raise this issue of confusion with their communications team.

Santos explains that when they negotiate with a landholder they always have legal representation. Committee member asks that should it be called an access agreement? Santos explains that there are two parts to the agreement. Part of it is the petroleum act access agreement, which is a requirement for all Petroleum companies. Committee member asks if a farmer doesn't want a company on their land then they can just say go away? Santos explains that for the purposes of exploration and appraisal Santos will not access a landholder's property unless it is on the voluntary land access agreement.

Chair suggests an action that the brochure be raised with the Santos Communications team and feedback suggesting that it needs more information and is unclear. Chair suggests that the committee be involved and consulted with this process. Santos responds that the brochure is an internally created Santos document and it would be inappropriate for the committee to have input into the document and Santos will not consult on internal documentation. Santos has noted the feedback from the committee and that information will be passed on to the communications team to make sure the brochure is not ambiguous, but Santos will not come back and consult with the CCC on the wording in that document.

Santos to raise with their Communications team that the Land Access Brochure has been noted at the CCC meeting as being unclear.

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Santos would like to clarify with committee that the brochure will not mention information about land access and entering properties on a voluntary basis, it will not be in the brochure because legally Santos can, they have made media statements about this but will not put it in the land access brochure. Committee member asks about seismic surveys? Santos responds that there is legislation specifically for seismic; you can't go within 200 metres of residences and 50 metres of gardens etc. Seismic projects can only go through a property with authority, but main public roads can be done. Legally the legislation allows mining and petroleum companies to enter into properties without consent, however Santos has a commitment that they will always gain voluntary landholder consent to undertake exploration and appraisal activities.

Committee member asks Santos in regards to access agreements, more specifically Farm management plan. It states environmental protection and water monitoring will occur on a property and in the district pre and post the activity. It states that all bores within a 2 km radius will be tested before and after drilling and the results shared with the relevant landholders, is that still Santos' position? Santos responds that yes that is correct. Committee member then asks that before Santos starts drilling Dewhurst 8A next door to committee member's land will Santos conduct and test on committee members bore. Santos responds that if the committee member is within 2km of drilling then yes they will. Santos notes that the committee members bore was tested last March. Committee member states that the statement does not mention about previous tests, it just says that the bore can be tested prior to work commencing. Santos responds that they will take that question on notice and get back to the individual committee member regarding this issue.

Topic suggestions for future meetings:

- Telemetric – Kym Bailey.
- Discussion on other potential sites to be reviewed.
- What does Santos return to the area in regards to local business and the economy?
Santos is happy to speak on the projects that are approved in terms of economic information and the criteria on becoming a Santos contractor.

Discussion on length of meeting, suggestion that the meeting could be extended to a longer

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meeting occurring less frequently.

Comment from Santos there is only 3 roles within Santos at the moment that work for the Narrabri operations that are fly in fly out that is 6 people. The majority of employers are employed on the provision that they live in the area.

Comment from Santos advising committee about the restructure and clarifying the company structure. Committee requests a diagram of the basic organisational structure. Santos to provide organizational structure to committee.

Next Meeting: Wednesday 11th of September 2013.

Meeting Closed: 7.02pm.

Attachment 1. Actions

Action Raised	Date Raised	Progress Made
Santos to provide response to questions on Namoi Water Study - data presented by ESG.	9 th October	Completed
Action for Santos to provide committee with full soil analysis including analysis of bacteria of the Leewood site next year when it is available. As well as providing regular soil checks to ensure no contamination is occurring.	11th December	Ongoing
Specialist to answer questions on aquifer monitoring research that is being conducted.	11th December	Ongoing.
Santos to advertise for vacant committee positions- chairman to select the members	14 th May	Ongoing. Pending formalisation process of committee
Santos to give a process to try and resolve committee members issue with his bore	14 th May	Ongoing.
Action for Santos to explore the option of formalising the committee.	18 th June	Ongoing
Chair to investigate if Santos is required to submit a report on the CCC to the Department of DRE within 3 months of 12month anniversary and if being a formal committee makes a difference to the requirements.	13 th August	

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Action on chair to contact absent CCC members to check if they are agreeable to meetings being moved to 2 nd Wednesday of the month.	13 th August	
Santos to raise with their Communications team that the Land Access Brochure has been noted at the CCC meeting to be unclear.	13 th August	
Santos to find out for committee member if his bore will be retested prior to work commencing 2km from his property.	13 th August	
Santos to provide diagram of Santos organizational structure to committee.	13 th August.	

Appendix 1: Narrabri CCC Meeting Action Item Response.

Appendix 2: Proposed Work activities for August and July

Information Request Response

Reference:	130722_NCCC
Subject:	Out of Session Information Request Items Narrabri CCC
Request date:	22 July 2013
Requested by:	David Ross Chair Narrabri CCC
Background Request:	<p>Email Request 22/07/2013:</p> <p>Tony Pickard has a few questions relating to the maps provided at the last meeting showing sampling sites.</p> <p>Tony has referred me back to the December 2012 meeting where the presenter quoted “SRB figures from 32 Bores” that Santos had tested in PEL 238.</p> <p>His questions:</p> <ol style="list-style-type: none"> 1. The question was for the location of those 32 <u>ground water bores</u>, not the <u>surface water</u> locations as provided. 2. On the SRB map, fig.1 NAR 7509_SURF_W 0org/ml. Please provide location and date of testing please? 3. Why no results from Bores or Gas Wells? 4. Why no results from the Dewhurst 8 Complex? 5. Why is Narrabri so well tested when there are no wells in the region as yet?
Response:	<p>Item 1 – <i>The question was for the location of those 32 <u>ground water bores</u>, not the <u>surface water</u> locations as provided.</i></p> <p>As advised in December 2012, Santos cannot identify the individual landholder’s bores and water qualities without their respective consent.</p> <ul style="list-style-type: none"> • The table below provides a list of bores that Santos sampled and the results. • Across the sampled locations, 10% of the bores have shown analysis with Sulphate Reducing Bacteria (SRB) present.

PEL	Core hole or ops area closest	SRB count	units	Standard unit counts org/100ml	Distance to pumped Santos well (km)
456	Kars Spring	5	orgs/100ml	5	135
456	Kars Spring	110	orgs/100ml	110	135
456	Kars Spring	93	orgs/ml	9300	135
456	Turill	8	orgs/ml	800	115
456	Kars Spring	1	orgs/ml	100	135
1	Kahlua	16000	orgs/100ml	16000	1.5
238	Kahlua	23	orgs/100ml	23	3.5
238	Kahlua	2200	orgs/100ml	2200	4.3
1	Kahlua	2400	orgs/100ml	2400	3
1	Kahlua	1080	orgs/100ml	1080	3.6
1	Kahlua	78	orgs/100ml	78	4
1	Kahlua	130	orgs/100ml	130	2.2
456	Cuan	1815	orgs/100ml	1815	125
456	Cuan	3500	orgs/100ml	3500	125
456	Cuan	3500	orgs/100ml	3500	125
238	Wilga Pk	170	orgs/100ml	170	3
238	Wilga Pk	33	orgs/100ml	33	3
238	Wilga Pk	180	orgs/100ml	180	3
238	Wilga Pk	2400	orgs/100ml	2400	3
238	Wilga Pk	790	orgs/100ml	790	3
238	Wilga Pk	46	orgs/100ml	46	3
238	Wilga Pk	78	orgs/100ml	78	3
238	Wilga Pk	15	orgs/100ml	15	3
238	Wilga Pk	2200	orgs/100ml	2200	3
238	Wilga Pk	78	orgs/100ml	78	3
238	Wilga Pk	16000	orgs/100ml	16000	3
238	Wilga Pk	230	orgs/100ml	230	3
238	Wilga Pk	49	orgs/100ml	49	3
238	Wilga Pk	23	orgs/100ml	23	3
238	Dewhurst	2400	orgs/100ml	2400	1.5
238	Bib5 GW Bore	240	orgs/ml		0.05
238	Bib1 GW Bore	<3	orgs/ml		0.05
<p>Item 2 – On the SRB map fig.1 NAR 7509_SURF_W 0org/ml. Please provide location and date of testing?</p> <ul style="list-style-type: none"> • The surface water sampling is undertaken on a monthly basis (providing that there is adequate sampling water available at the monitoring locations). • The sample referenced in Fig.1 NAR 7509_SURF_W was pooled water found beside the Newell Highway (between Narrabri and X Line Road) and was sampled on 10/12/2012. • The location is identified with a yellow dot (bottom left hand corner of Box BI on the map provided). 					
<p>Item 3 – Why no results from bores or gas wells?</p> <ul style="list-style-type: none"> • Santos shut in all of the CSG wells shortly after purchasing Eastern Star Gas and therefore no formation water has been available for sampling. 					

	<p>Item 4 – <i>Why no results from the Dewhurst 8 Complex?</i></p> <ul style="list-style-type: none"> • As detailed in Item 3, Santos shut in all of the CSG wells shortly after purchasing Eastern Star Gas and therefore no formation water has been available for sampling.
	<p>Item 5 – <i>Why is Narrabri so well tested when there are no wells in the region as yet?</i></p> <ul style="list-style-type: none"> • Santos believes the establishment of a comprehensive and robust environmental baseline for water is critical to the assessment and ongoing analysis of the surface and groundwater attributes within the existing operational tenements. • When collated, data will be provided to respective regulatory agencies and the community. • Understanding baseline water conditions is an integral part of developing CSG fields and has been an important focus for Santos since the commencement of CSG activities in the Narrabri area and broader Gunnedah Basin.
Briefing Officer:	Glenn Toogood Water Management Leader
Date:	24/07/2013

Meeting Action Item Response

Reference:	130722_NCCC
Subject:	Information Request Items – June Meeting Narrabri CCC
Request date:	22 July 2013
Requested by:	David Ross Chair Narrabri CCC
Background Request:	<ol style="list-style-type: none"> 1. Santos to investigate the process of formalising this committee while still seeking to get new CCC members. 2. Santos to advise if the Land Farming document as provided at the June 2013 CCC meeting is for the rehabilitation being carried out at the various spill sites in the Pilliga State Forest of PEL 238 as it talks about hydrocarbons and puts the area onto plastic sheets. 3. Santos to find out why there is a difference between the 2km and 3km groundwater monitoring zone and why it differs between the two REFs (committee member states that Kiandool 1 REF has 2km and Dewhurst 22-25 REF says 3km) 4. Committee member asks if his bore is within the distance that is in the REF can he have the monitoring undertaken on his property 5. Santos to report back to the CCC on how frequently appearing plants are assessed and managed 6. Santos to investigate and find out what the blue casing on top of the pegs at Leewood is for 7. Santos to send committee update of works in July including what is happening at Leewood
Response:	<p>Item 1 - Santos to investigate the process of formalising this committee while still seeking to get new CCC members.</p> <p>Ongoing</p>
	<p>Item 2 - Santos to advise if the Land Farming document as provided at the June 2013 CCC meeting is for the rehabilitation being carried out at the various spill sites in the Pilliga State Forest of PEL 238 as</p>

	<p><i>it talks about hydrocarbons and puts the area onto plastic sheets.</i></p> <ul style="list-style-type: none"> • The document EHS08 Contaminated Sites including the Appendix A – G that was provided to the Committee in June 2013 is a Standard that applies to all Santos operated sites, leased sites and Santos owned pipeline networks within exploration and production leases managed by Santos in Australia and overseas. • The Standard is general in nature as it covers all Santos operational areas. • There are some circumstances where a supplementary specific remediation plan is required for a contaminated site. • The Introduction (page 3) of EHS08 Contaminated Sites, Appendix G – Landfarm Guide states that the Landfarm technique relates to remediating crude oil impacted soil. • The sites being rehabilitated in the Pilliga State Forest were not impacted by petroleum hydrocarbons such as crude oil or refined fuel and the Landfarm technique is not relevant. • There has been site specific rehabilitation plans prepared for the Pilliga State Forest sites to ensure that they are successfully remediated. • These plans were prepared in consultation with the regulatory agency, the Department of Resources and Energy. • To-date, Santos has committed more than \$17 million to remediation works and substantial progress has been made. • Further information on the rehabilitation activities is available from the Santos website http://www.santos.com/exploration-acreage/nsw-csg/pilliga-rehabilitation.aspx
	<p>Item 3 - <i>Santos to find out why there is a difference between the 2km and 3km groundwater monitoring zone and why it differs between the two REFs (committee member states that Kiandool 1 REF has 2km and Dewhurst 22-25 REF says 3km)</i></p> <ul style="list-style-type: none"> • There is no regulatory requirement in New South Wales for Santos to undertake testing of water bores on properties neighbouring exploration and appraisal activities. • Santos has a voluntary commitment included in REF documents to offer landholders testing of their bores within a specified radius of proposed activities. • Generally, this is a 2 kilometre radius for testing to collect baseline information which is provided free of charge to the landholder. • The extension of the distance from a 2 kilometre to 3 kilometre radius was provided as a demonstration of Santos’ intent to sample a wider radius in areas where there is a limited number of bores available to sample.
	<p>Item 4 - <i>Committee member asks if his bore is within the distance that is in the REF can he have the monitoring undertaken on his</i></p>

	<p><i>property</i></p> <ul style="list-style-type: none"> • If the exploration and appraisal activity is within 2 kilometre radius of a bore, Santos will offer the landholder the opportunity to have their bore tested, if it is practicable. • In some cases, water cannot be extracted as bores are not equipped to facilitate the testing. • Santos and their contractors do not adjust or manipulate plumbing to enable water to be extracted. • If the bore is not equipped with a pump or has an inoperable windmill, Santos cannot take a sample. • A comprehensive sample of Mr Pickard's bore was taken on 22 March 2012 and this baseline groundwater information has been provided free of charge to Mr Pickard.
	<p>Item 5 - <i>Santos to report back to the CCC on how frequently appearing plants are assessed and managed</i></p> <ul style="list-style-type: none"> • Santos' environmental consultants undertake thorough desktop assessments and detailed site scouting activities as part of the environmental assessment process and prepare an Ecological Assessment report which is provided with the REF. • Regulatory authorities review the ecological assessments undertaken, including the methodology, and will not approve the activity if they thought that the assessment has not been adequate and in accordance with relevant guidelines. • Santos would consider, on a case by case basis, any previously unidentified rare species and respond appropriately.
	<p>Item 6 - <i>Santos to investigate and find out what the blue casing on top of the pegs at Leewood is for</i></p> <ul style="list-style-type: none"> • The blue steel standpipes are shallow groundwater monitoring wells installed to collect baseline information pre-construction of the water storage/treatment facilities at Leewood.
	<p>Item 7 - <i>Santos to send committee update of works in July including what is happening at Leewood</i></p> <p>July update was provided to the Committee through the Chair on 29 July 2013.</p>
Briefing Officer:	Annie Moody Team Leader, Community and Land
Date:	06/08/2013

Information Request Response

Reference:	130802_NCCC
Subject:	Out of Session Information Request Items Narrabri CCC
Request date:	2 August 2013
Requested by:	David Ross Chair Narrabri CCC
Background Request:	<p>Email Request 2/08/2013:</p> <p>One of the things I would like to discuss is a phone call I got from Tony P recently. It was in relation to the response I forwarded from Santos recently relating to Tony's question.</p> <p>He believed that some of the responses were not clear or opened up further questions.</p> <ol style="list-style-type: none"> 1. If a more specific location can be identified for the pooled water mentioned in Item 2 2. Why the data from PELs other than PEL 238 were included. How were they meant to add to the picture? 3. With regards to Item 4, Tony said he was interested in surface water results rather than produced water.
Response:	<p>Item 1 – <i>Can a more specific location be identified for the pooled water mentioned in Item 2?</i></p> <ul style="list-style-type: none"> • The pooled water collected on the side of the road as illustrated on the map was part of the surface water characterisation baseline across the catchment. The exact location is shown on the map.
	<p>Item 2 – <i>Why the data from PELs other than PEL 238 were included. How were they meant to add to the picture?</i></p> <ul style="list-style-type: none"> • The table provided a list of the 32 bores that Santos sampled and the results. • The minutes of the 11 December 2012 meeting did not state that the results of the 32 bores sampled were only from PEL 238. The minutes state: <i>“Sulphate Reducing Bacteria (SRB) presented by Glenn Toogood: The reason that the SRB analysis was not in the initial results list provided when we discussed actions was because the ground water bores that we have sampled at lot of them are private bores and we would have to go through another process to get private results done. This slide is provided as a summary of the 32 bores Santos has sampled there is a range of SRB. This</i>

	<p><i>example shows the levels that are found in this environment and further testing is being carried out of other environments around the area. Santos offers that they can also provide an independent expert to speak on SRB further”.</i></p> <ul style="list-style-type: none"> • A copy of the slide referred to in the minutes is attached. <u>Attachment One</u> • The results in the map provided were to illustrate the ubiquitous nature of SRBs across the catchment, not just PEL238.
	<p>Item 3 – <i>Tony said he was interested in surface water results rather than produced water?</i></p> <ul style="list-style-type: none"> • The questions received through the Chair on 22 July 2013 and responded to in <i>130722_Information Request Response - Out of Session Question 1 - August 2013.doc</i> stated “The question was for the location of those 32 <u>ground water bores</u>, not the <u>surface water</u> locations as provided”. • Santos provided information on the ground water bores as requested.
Briefing Officer:	Annie Moody/Glenn Toogood
Date:	16/08/2013

Sulphur Reducing Bacteria

Groundwater Bore Inventory (SRB – cells/100ml)				
No. of bores (32)	Min value = 1	Max value = >16,000	Average = 1746	
Biblewindi Ponds Inventory (SRB – cells/100ml)				
	Biblewindi Pond 1 = 1100	Biblewindi Pond 2 = 23	Biblewindi Pond 3 = 150	

SANTOS UPDATE – August 2013

Proposed upcoming work program – Narrabri Area

Time frames are indicative as schedules are dependent on factors such as approval times, weather and rig availability.

Decommissioning of wells:

- No plug and abandon activities planned for August

Drilling of exploration core holes:

- No core holes will be drilled in August

Other work:

- Construction of the first stage of the Leewood water storage facility is scheduled to begin in August and is a major component of the Pilliga rehabilitation and produced water treatment
- Work will be undertaken on Old Mill Road in the coming weeks. A traffic management plan has been prepared for this work.
- Installation of shallow aqua monitoring bores at Bibblewindi 26, Bibblewindi 27 and Bibblewindi 28, Dewhurst 3
- Rehabilitation activities for Coonarah 3, Coonarah 5 and Wilga Park 4
- Commissioned generators at Wilga Park Power Station as part of periodic testing

Pilliga rehabilitation:

- Irrigation is continuing as part of the rehabilitation of the Bohena and Bibblewindi sites in the Pilliga.

Site visits:

- Next community site visit to the Pilliga will be held on August 15.

Community:

- 3/8 – Rugby Union, Narrabri vs Walcha, Santos sponsors day
- 3/8 – Narrabri Men’s Shed Official Opening, Santos sponsor
- 20/8 – 22/8 – AgQuip, Santos will have a display at the event
- 31/8 – Narrabri Chamber of Commerce Advancing Narrabri Business Awards, Santos sponsor

Other:

- The Chief Scientist has released the “Initial Report on the Independent Review of Coal Seam Gas Activities in NSW” available from <http://www.chiefscientist.nsw.gov.au/latest-news/nsw-chief-scientist-and-engineer-releases-initial-report-from-independent-review-of-coal-seam-gas-activities>

Santos response to the initial report:

- Santos has always acknowledged that some communities have unanswered questions about coal seam gas, and we believe that the industry together with Government should continue to assist in providing science based answers to these questions.
- Reassuringly the Chief Scientist notes that many of the community concerns can be offset by best practice in regulation, monitoring and operation. That is what Santos has been saying and continues to say.
- We look forward to her continuing studies as it is very important that clear authoritative science informs community debate on our industry.
- The Chief Scientists report does not call for a halt to CSG operations across NSW whilst further studies are performed.
- The CSG industry in Australia is already highly and effectively regulated and supervised. It’s an industry that already has much scientific rigour around its practice.
- CSG has been extracted safely and sustainably in Queensland for almost 20 years.