



**Re: Submission to the chief scientist regarding coal seam gas**

**Josie Evans** to: csg.review

03/04/2013 01:29 PM

History: This message has been replied to and forwarded.

Dear Rebecca,

Thank you for your email. In my haste I must have forgotten to attach my articles etc..

I will resend now.

Kind Regards,

Josie Evans

On Tue, Apr 2, 2013 at 8:30 AM, <[csg.review@chiefscientist.nsw.gov.au](mailto:csg.review@chiefscientist.nsw.gov.au)> wrote:

Dear Ms Evans

Thank you for your email. Unfortunately the document is not attached to your email, do you mind re-sending so it can be taken into consideration as part of the review process?

Kind regards  
Rebecca Radford

Office of the NSW Chief Scientist & Engineer  
Level 49 MLC Centre | 19 Martin Place | Sydney NSW 2001 | GPO Box 5477 | Sydney NSW 2001  
T: 02 9338 6786 | F: 02 9338 6760 | E: [csg.review@chiefscientist.nsw.gov.au](mailto:csg.review@chiefscientist.nsw.gov.au)  
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From: Josie Evans <[josefree.67@gmail.com](mailto:josefree.67@gmail.com)>  
To: [csg.review@chiefscientist.nsw.gov.au](mailto:csg.review@chiefscientist.nsw.gov.au)  
Date: 29/03/2013 11:16 PM  
Subject: Submission to the chief scientist regarding coal seam gas

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Dear Chief Scientist,

Please find a document attached. In the document are web addresses of various scientific articles, media releases, transcripts and videos from the US and Australia. They outline some (but not all) problems caused by coal seam gas extraction ranging from debilitating health effects in humans, seismic effects, global warming to depletion of and contamination of drinking water etc...

Kind Regards,

Josie Evans

Stop CSG Sydney

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articles for scientific researcher.docx



**A submission from Josie Evans from Stop CSG Sydney**

**Josie Evans** to: csg.review

25/04/2013 10:44 PM

History:

This message has been replied to and forwarded.

Dear Chief Scientist,

Please find attached some links to various papers and articles written by professional doctors and scientists on the negative effects on human health caused by coal seam gas mining.

Yours faithfully,

Josie Evans  
Stop CSG Sydney



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American study showing methane is not clean:

<http://www.alternet.org/fracking/how-new-study-seriously-challenges-claim-natural-gas-clean-fossil-fuel>

American study linking fracking to seismic activity with embedded scientific article:

[http://www.motherjones.com/environment/2013/03/does-fracking-cause-earthquakes-wastewater-dewatering?fb\\_action\\_ids=243964942413920%2C243930802417334&fb\\_action\\_types=og.likes&fb\\_source=other\\_multiline&action\\_object\\_map={%22243964942413920%22%3A499408133449193%2C%22243930802417334%22%3A615944815086875}&action\\_type\\_map={%22243964942413920%22%3A%22og.likes%22%2C%22243930802417334%22%3A%22og.likes%22}&action\\_ref\\_map=\[\]](http://www.motherjones.com/environment/2013/03/does-fracking-cause-earthquakes-wastewater-dewatering?fb_action_ids=243964942413920%2C243930802417334&fb_action_types=og.likes&fb_source=other_multiline&action_object_map={%22243964942413920%22%3A499408133449193%2C%22243930802417334%22%3A615944815086875}&action_type_map={%22243964942413920%22%3A%22og.likes%22%2C%22243930802417334%22%3A%22og.likes%22}&action_ref_map=[])

CSIRO studies on great artesian basin March 2013 which shows that depletion is occurring demonstrated by reduced water pressure, and underground faults determine connectivity between aquifers therefore availability of water. Depletion has occurred in Queensland. *CSG mining requires massive amounts of water which has most probably led to depletion in Queensland. This may happen in NSW if it is not halted. CSG extraction practices such as hydraulic fracturing are most likely to alter underground faults (if earthquakes occur due to fracking, then shifting of faults can too) which in turn may alter connectivity between aquifers therefore availability/flow of water.* Italics are my thoughts.

<http://www.csiro.au/en/Organisation-Structure/Flagships/Water-for-a-Healthy-Country-Flagship/Sustainable-Yields-Projects/Great-Artesian-Basin-Assessment.aspx>

Ben Cubby's article on Southern Cross Uni research re methane leakage in Darling Downs:

<http://www.smh.com.au/environment/climate-change/methane-leaking-from-coal-seam-gas-field-testing-shows-20121114-29c9m.html>

Southern cross Uni website showing video of above research findings and also written submission by the scientists:

<http://www.scu.edu.au/coastal-biogeochemistry/index.php/70>

American scientists explaining how fracking contaminates drinking water:

<http://checksandbalancesproject.org/2011/05/06/gas-patch-scientists-explain-how-hydraulic-fracturing-can-permanently-contaminate-public-water-supplies/>

Matthew Wright from Beyond Zero Emissions in Australia speaking about some dangers of coal seam gas such as toxic chemicals released into water and air as well as global warming caused by methane emissions:

<http://bze.org.au/media/radio/dangers-coal-seam-gas-and-shale-gas-130121>

Media release by National Toxics Network re the effect of dangerous chemicals on families in Tara, Queensland living near CSG wells:

<http://www.ntn.org.au/wp/wp-content/uploads/2013/03/NTN-LTG-MEDIA-RELEASE.pdf>

Doctors for the Environment (Aust) and National Toxic Network (Aust) say new evidence on air pollution from coal seam gas mining means better health protection needed:

<http://www.ntn.org.au/wp/wp-content/uploads/2012/11/DEA-NTN-PRESS-RELEASE-.pdf>

Submission to NSW Inquiry into coal seam gas by NTN:

<http://www.ntn.org.au/wp/wp-content/uploads/2011/11/NTN-submission-to-the-NSW-Inquiry-Into-Coal-Seam-Gas3.pdf>

Letter from Sandra Steingraber dated 18 April 2013, a biologist who was arrested for protesting the storage of shale gas near her home. She speaks of the various consequences – scientific and otherwise:

<http://www.orionmagazine.org/index.php/newsfrom187/entry/7475/>

1208 sufferers in the US and details of their symptoms last updated April 2013 by Pennsylvania Alliance for Clean Water

<http://pennsylvaniaallianceforcleanwaterandair.wordpress.com/the-list/>

Dr David Brown from US talks about chemical toxicology – symptoms due to exposure to shale gas fracking and chemicals that cause this. Also the pathways to the body and the processes which lead to particular symptoms.

<https://mail.google.com/mail/u/0/?shva=1#inbox/13e2125f978cdf57>

Professor of Medicine from Adelaide University speaks about health problems caused by CSG in November 2012

<http://reneweconomy.com.au/2012/dealing-with-the-health-risks-of-unconventional-gas-99242>

docs for environment:

<http://theconversation.com/we-need-to-do-our-homework-on-the-health-risks-of-coal-seam-gas-13173>

docs 4 env:

<http://dea.org.au/news/article/media-release-coal-seam-gas-fails-on-human-health-2-4-2013>

Hi levels of radioactivity found near csg fields in Tara, Qld:

<http://www.abc.net.au/news/2013-03-07/research-claims-elevated-coal-seam-gas-field-levels/4559596>