

From: Annabel Daley <Annabel.daley@tpg.com.au>
To: <plan_comment@planning.nsw.gov.au>
Date: 1/20/2013 10:11 am
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

MY ADDRESS: 332 Morrison Road, Ryde NSW 2112

Re: Camden Gas Project Stage 3, Project Application 09_0048

Please accept this as a submission on the Camden Gas Project Stage 3 Northern Expansion which is currently on public exhibition. I object to AGL's project application 09_0048 to drill for coal seam gas in Western Sydney.

Please put the health and wellbeing of the people of Greater Western Sydney above the profits of AGL who plan to expand their gas field around and under people's homes and businesses.

I urge you to reject the proposal by AGL to drill 66 new coal seam gas production wells on the grounds that:

- Reports from Queensland and overseas show that there are serious risks to air quality and human health from unconventional gas drilling. However there have been no detailed studies done to quantify those risks especially in urban areas. The people of Camden and Campbelltown should not be treated like guinea pigs in a coal seam gas experiment.
- People's homes should not be undermined by coal seam gas drilling without their knowledge or permission.
- Homeowners face declining property values within and adjoining coal seam gas fields with some estimating house values may fall up to 30%.
- The integrity of gas wells can't be guaranteed and research from gas fields in Queensland and the US has shown many fail in their first few year. This will leave the community to deal with the impact of leaking wells on air quality and local water supplies.
- New research from Southern Cross University on methane gas leaks from coal seam gas fields has not been considered in the proposal. AGL has not conducted these studies to account for methane leakage on their existing coal seam gas wells.
- Despite research from the Queensland and the US suggesting ground water contamination and gas leaks from fracking, the proposal by AGL will allow fracking.
- The impacts of horizontal drilling have not been adequately considered in the Environmental Assessment.
- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

Yours sincerely,
Annabel Daley

To:
Mining and Industry Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Dear Sir/Madam

Re: Camden Gas Project Stage 3, Project Application 09_0048

I object to AGL's project application 09_0048 to mine for coal seam gas (CSG) in Campbelltown and Camden. The key reasons for my objection are stated below.

I am concerned that CSG mining is a technologically-evolving industry whose impacts have not been independently and scientifically fully researched and remain largely unknown. This view is supported by professional organisations and academics in evidence to the NSW Upper House and Senate Inquiries into Coal Seam Gas Mining in 2011 and by subsequent research here and overseas. We have had to rely on the industry for much of our information when the industry has a vested interest in the outcome. AGL is no different. It claims that the Camden Gas Project has been safely operating for 10 years. Yet we understand that impacts on groundwater and air quality have not been adequately monitored, and while AGL has been operating under an Environmental Protection Licence (EPL No. 12003), it has been allowed to self-monitor its compliance, self-investigate incidents and self-report such that we do not know what true impacts it may have had. Third party consultants and external laboratories that are engaged and paid for by the industry are not *independent*. Nor is any funded or co-funded research by the CSG mining industry. These lessons should have been learnt with asbestos in Australia and with 'Big Tobacco' in the USA. The National Water Commission in its Position Statement (3rd December 2010) said that impacts may emerge over a long time period. I am deeply concerned that the costs of unforeseen problems will be borne by the community and taxpayers after AGL is long gone from the area. This is grossly irresponsible.

Doctors for the Environment Australia claims that health impacts from CSG mining have not been assessed. Preliminary research from Queensland (e.g. by Southern Cross University in Tara) and overseas is deeply concerning, especially where fracking has been used. As at December 2011, 85% of the production wells in the Camden Gas Project had been fracked (evidence from the NSW Upper House Inquiry) with inadequate monitoring of its impacts on water in particular. AGL claims that the use of horizontal wells in the proposed Stage 3 will reduce the need for fracking, but it seems that this is not entirely true since it has reserved the right to frack these wells in the future if/when the technology becomes available. The size of the proposed well clusters and any fracking of horizontal wells are both new and untested here. It will therefore be entirely experimental with unknown outcomes on health and property including the possibility of subsidence under so many urban properties.

I am also concerned about evidence from Queensland and overseas on air quality and the cumulative impact of AGL's expansion into an area that already experiences incidents of unacceptable levels of air pollution (ozone and fine particles) associated with respiratory problems (NSW Environmental Protection Authority). AGL's past performance gives no confidence that it has not already contributed to this or that it can be managed in the future,

having admitted in August this year that it had not conducted continuous air monitoring at its Rosalind Park Gas Treatment Plant for three years in breach of its EPL No.12003.

Allowing CSG mining in areas that are not zoned for heavy industry undermines zoning controls and confidence in the planning process, and creates severe land use conflicts, economic instability and inequity. It will disrupt religious communities whose vocations have so far been protected by the Scenic Hills zoning; it will place undue burden on small rural allotments whose capacity to cope is severely reduced by size (thereby threatening the survival of the entire historic Scenic Hills), and it is unsightly and unsafe in urban areas with a potential escalation in CSG mining incidents and accidents associated with the more intense urban activity (traffic, people etc.), the presence of children, and potential for vandalism. The consequent impact on land and house values for existing land and home owners may be devastating. For many people the home is their largest asset and is often leveraged to support small business. Any devaluation by bank assessors may destroy livelihoods and life savings.

I do not believe that the NSW Government's new regulations for CSG mining will ensure its safe operation here. As the only commercially producing CSG field in NSW, the Camden Gas Project has already been operating under consent conditions. Yet the NSW Government has not been able to ensure compliance, as evidenced by on-going breaches by AGL of its licence conditions, and the discovery of incidents that might not have been reported were it not for community vigilance, such as the Sugarloaf well incident in May 2011 in Menangle that allowed well contents to drift over Sydney's water channel and to nearby Glen Alpine houses.

The proposal poses risks to Sydney's water in general and to the South West in particular that have not been adequately assessed. While AGL claims that the *geology of the Sydney Basin is well known*, AGL's rationale for the constant modification of prior stages of the Camden Gas Project seems to contradict this, as does its admission to the Scenic Hills Association that it does not know where the aquifers here run to but *probably Sydney Harbour*. Potential impacts on Sydney Harbour, on the nearby Sydney Water Catchment, and AGL's proposal to run its gas gathering pipeline along Sydney's Upper Canal on public land are unacceptable risks to Sydney's water, and are an abuse of public property for the benefit of private investors.

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I acknowledge that my name will appear on my submission when publicly exhibited.

Yours sincerely

Name	Kimberley Diller
Address	30 The Clear Water Mt Annan
Signature	Diller
Date	19.1.13

Date 25 January 2013

Dear Director of Mining and Industry Projects NSW,

Reference: Submission opposing AGL Coal Seam Gas (AGL-CSG) Camden Gas Project – Northern Expansion (Stage 3)
Project Application No 09_0048

I wish to object to the entire AGL – CSG Camden Expansion Proposal. I have only recently become aware of the full extent of the proposed expansion of AGL Coal Seam Gas drilling, mining and "fracing" ("fracturing") under our homes, schools, workplaces and catchment areas in my local area.

I am not against mining at all, however I believe that introducing toxic and dangerous AGL Coal Seam Gas mining under our existing populated communities, in the Macarthur area and in the Sydney Metropolitan area is totally inappropriate.

The major reasons why I oppose the entire AGL Coal Seam Gas Expansion are:

- Threats to air quality and health
 - Serious health risks have been identified in other areas with gas wells, including dramatic increases in respiratory diseases, asthma and skin conditions
 - Potential for long term undetected gaseous leaks forming toxic fugitive plumes in our breathing space
 - Risks of uncontrollable toxic emissions to earth, air and water threatening our communities
- Threats to our natural environment – geology and hydrology
 - Long term geological damage to drinking water, water tables, creek beds and rivers
 - Contamination of South Creek and Narellan Creek feeding the Hawkesbury-Nepean Catchment
 - Structural damage to the Sydney Water Supply Channel, undermined by at least 6 parallel drilling locations in our area at CU02, CU06, CU10, CU14, CU20 and CU22, each with 6 wells
 - Structural damage to built environments and dangerous land slip in a predominantly clay sub soil
 - Expansion and shrinkage of clay and shale sub-structures causing fracturing to gas pipes
 - Risks in waste management of by-products including neuro-toxin particles in earth, water and air
- Incompatible land use layering
 - Allowing developed residential, commercial, educational and recreational zonings to be undermined, compromised and degraded by a toxic and dangerous mining industry
- Unpredictable noise disturbance
 - Inadequate credible studies into 24 hour drilling, mining and fracing noise levels impacting on our health
 - Failure to acknowledge long term sub-surface noise levels on neurological and sleeping disturbance patterns
- Deeply flawed community consultation, lacking honesty and transparency
 - AGL provided only 2 copies of the Environmental Assessment – one at Camden Council foyer and one at Campbelltown, and withdrew the original Environmental Assessment October of 2010 so that the community could not compare the original proposal with the amended Main Report October of 2012.
 - Failure of AGL to accept that many people do not have access to the internet, and those who have internet access would have great difficulty reading a 3000 page document on a computer screen or at all.
 - Failure by AGL to provide complimentary CDs of their proposal to residents upon request
 - Poorly advertised information sessions, at which AGL specialist consultants could not answer questions
 - A poorly designed AGL-CSG website, which I found difficult to navigate to try to find information
 - Failure by AGL to show the 2,500 metre radius of each drilling footprint under homes, schools and creeks
- Underhanded political posturing and decision making processes
 - Government departments do not seem to have carried out complete, professional, expert and independent analysis of the AGL-CSG proposal, and if they have, this has not been conveyed to the general public.
 - Premier O'Farrell trivialised drilling lines as being the size of a "teacup" (SMH 7.7.12 page 7 Editorial) when in fact AGL state in "2012 Main Report Chapter 4.3" that drilling varies from 178mm to 2000mm in diameter in the fracing reaming process and the lines are up to 2,500 metres long. I do not think having a 2m wide tunnel drilled under my home is acceptable.

I totally oppose the entire AGL-CSG Camden Expansion Proposal and expect that all authorities do likewise in order to protect my family lifestyle and the vital future of our community.

Yours sincerely,

Kylie Dalrymple
57 Woodcourt St
Ambarvale 2560



From: "Philimon Darmo" <pgdarmo@bigpond.com>
To: <plan_comment@planning.nsw.gov.au>
CC: <camden@parliament.nsw.gov.au>
Date: 2/7/2013 9:39 am
Subject: Submission against AGL-CSG
Attachments: Submission against AGL Coal Seam Gas.docx

Dear Director,

Attached please find my submission opposing AGL Coal Seam Gas, Camden Gas Project - Northern Expansion (Stage 3), Project Application No. 09_0048.

A copy of my submission is forwarded to our local member of State Parliament, Mr Chris Patterson.

Regards,

Philimon Darmo

Resident of Elderslie (Camden East)

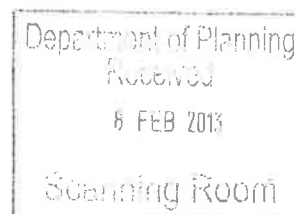


PCU041416

51 Drysdale Road
Elderslie, NSW 2570

7 February 2013

The Director
Mining and Industry Projects
NSW Department of Planning
GPO 39, Sydney NSW 2001



Dear Director of Mining and Industry Projects NSW,

**Re: Submission Opposing AGL Coal Seam Gas (AGL-CSG)
Camden Gas Project – Northern Expansion (Stage 3)
Project Application No. 09_0048**

My family moved to the Camden area about 21 years ago for the great location it is , and for the employment opportunities and, more importantly for a great and peaceful lifestyle and environment.

I recently became aware of the proposed expansion of the AGL Coal Seam Gas drilling, mining and fracturing in this part of the Macarthur region.

I am not against mining where it is socially and environmentally permissible, safe and suitable. But I am completely against introducing toxic and dangerous AGL Coal Seam Gas mining in land occupied by well established and growing communities. The major reasons why I totally oppose the entire AGL Coal Seam Gas Expansion include:

- Serious threat to air quality and health
- Serious threat to our natural environment – geology and hydrology
- Contradictory and incompatible land use layering
- Unpredictable noise disturbance
- Deeply flawed community consultation
- Threat to great lifestyle.

I strongly urge you to completely reject such unnecessary and toxic and environmentally unfriendly and unsuitable project s which are destined to degrade people's family lifestyle and their homes, backyards, the natural soil and water and the air we all breathe and the vital future for our communities in this region.

Yours faithfully,

Philimon G. Darmo

Copy to Chris Patterson, Local Member of Parliament for Camden

From: Mark Das <mark_das@hotmail.com>
To: <plan_comment@planning.nsw.gov.au>, Mark <mark_das@hotmail.com>
Date: 2/7/2013 8:54 am
Subject: Submission Opposing AGL COAL SEAM GAS (AGL-CSG)

Dear Director of Mining and Industry Projects NSW,

I'm a resident of Spring Farm. We built our first home in Spring Farm after we were drawn to the charm of the Camden area some years ago, with a view to raising our 3 children in a safe, clean environment. However now, we amongst many other residents are deeply distressed and angered with the plan for opening more coal seam gas wells in this locality. It is but financial greed to combine housing and big gas projects which impact residents negatively through increased noise and air pollution, land value depreciation and low morality due to the industrial rape of the rural charm which first attracted many residents to the area. The residents have all invested financially to make a home in this area – now this is lifestyle and investment is under threat.

Camden already has its fair share of these wells and it is unfair of corporations and governments to press the residents to accommodate more new wells. AGL's push to install new wells is pure financial motivation which do not impact the far away high paid senior executives who push for these wells in somebody else's backyard. We as a community refuse to allow our small suburb turn into an industrial site.

I as a local resident, and as a citizen and a voter, am deeply against coal seam gas wells in my locality due to the mentioned concerns. I request my local council / government body to hear my voice of concern and to stand with me united, to prevent these unwelcomed coal seam gas wells to our backyards.

I know majority of my neighbours share my anger and concerns for these wells in our locality, and I am hopeful that through the majority law of democracy we will collectively crush the corporate monster's desire to destroy our locality with these wells. United we stand against coal seam gas in our locality.

I sincerely hope you / and or relevant body review the AGL-CSG project in light of our opposition, concerns, fear and anger.

Best regards,

S.Das
Spring Farm / Camden Resident

From: Stuart D'Astol <greenqi3@gmail.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 1/18/2013 4:58 pm
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

MY ADDRESS:

Re: Camden Gas Project Stage 3, Project Application 09_0048

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Please put the health and wellbeing of the people of Greater Western Sydney above the profits of AGL who plan to expand their gas field around and under people's homes and businesses.

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- The impacts of horizontal drilling have not been adequately considered in the Environmental Assessment.
- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

Yours sincerely,
Stuart D'Astol

From: Sarah Davenport <sarahdavenport8@bigpond.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 2/2/2013 10:01 am
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

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Yours sincerely,
Sarah Davenport

To:
Mining and Industry Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Dear Sir/Madam

Re: Camden Gas Project Stage 3, Project Application 09_0048

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having admitted in August this year that it had not conducted continuous air monitoring at its Rosalind Park Gas Treatment Plant for three years in breach of its EPL No.12003.

Allowing CSG mining in areas that are not zoned for heavy industry undermines zoning controls and confidence in the planning process, and creates severe land use conflicts, economic instability and inequity. It will disrupt religious communities whose vocations have so far been protected by the Scenic Hills zoning; it will place undue burden on small rural allotments whose capacity to cope is severely reduced by size (thereby threatening the survival of the entire historic Scenic Hills), and it is unsightly and unsafe in urban areas with a potential escalation in CSG mining incidents and accidents associated with the more intense urban activity (traffic, people etc.), the presence of children, and potential for vandalism. The consequent impact on land and house values for existing land and home owners may be devastating. For many people the home is their largest asset and is often leveraged to support small business. Any devaluation by bank assessors may destroy livelihoods and life savings.

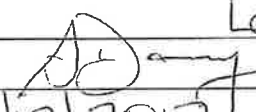
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I acknowledge that my name will appear on my submission when publicly exhibited.

Yours sincerely

Name	Shirley Davey
Address	15 Leicester St
	Leumeah NSW 2560
Signature	
Date	30/12/2012

To:

Mining and Industry Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

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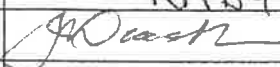
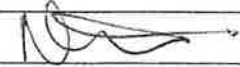
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Yours sincerely

Name	JACKI DAVIDSON & NICOLE SMITH.
Address	29 BOOMERANG CRES
	RADY 2566
Signature	 
Date	5-2-13

From: Jenness Dawes <jennessdawes@gmail.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 1/26/2013 1:25 pm
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

MY ADDRESS: 7 Western Avenue Blaxland East 2774

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I urge you to reject the proposal by AGL to drill 66 new coal seam gas production wells on the grounds that:

- Reports from Queensland and overseas show that there are serious risks to air quality and human health from unconventional gas drilling. However there have been no detailed studies done to quantify those risks especially in urban areas. The people of Camden and Campbelltown should not be treated like guinea pigs in a coal seam gas experiment.
- People's homes should not be undermined by coal seam gas drilling without their knowledge or permission.
- Homeowners face declining property values within and adjoining coal seam gas fields with some estimating house values may fall up to 30%.
- The integrity of gas wells can't be guaranteed and research from gas fields in Queensland and the US has shown many fail in their first few year. This will leave the community to deal with the impact of leaking wells on air quality and local water supplies.
- New research from Southern Cross University on methane gas leaks from coal seam gas fields has not been considered in the proposal. AGL has not conducted these studies to account for methane leakage on their existing coal seam gas wells.
- Despite research from the Queensland and the US suggesting ground water contamination and gas leaks from fracking, the proposal by AGL will allow fracking.
- The impacts of horizontal drilling have not been adequately considered in the Environmental Assessment.
- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

From: Alex Day <lindyandalex@y7mail.com>
To: "plan_comment@planning.nsw.gov.au" <plan_comment@planning.nsw.gov.au>
Date: 2/5/2013 4:44 pm
Subject: Opposing AGL Camden Gas Project

Dear Director , Mining and Industry Projects
NSW Department of Planning, GPO Box 39,
Sydney, NSW 2001

Dear Director,
Re: SUBMISSION OPPOSING AGL COAL SEAM GAS
CAMDEN GAS PROJECT - NORTHERN EXPANSION (Stage3)
Projection Application No. 09 - 0048

We are writing this this application which opposes the "Fracturing " or breaking the sub-surface under our estate and local area as proposed by AGL.

Mixing mining and untested chemistry under our homes is a formula for major critical incidents. We do know that AGL use concentrated acids and biocides among a list of other chemicals triggering reactions in coal and sandstone seams underneath our homes, shopping centres and schools would be a disaster waiting to happen. The Sydney basin coal seam starts from south of Wollongong and runs

under the the city and surfaces north of the hunter valley.

I suggest if western and southwestern area of Sydney is the AGL target then why don't they also have drilling rigs mining for coal seam gas in Double Bay, Rosebay, Vacluse North Sydney, Cremourne and generally the CBD area? I suggest the outcry from the public would topple the government!!

We totally oppose the entire AGL-CSG Camden expansion proposal and expect the consenting authorities to do likewise.

Yours Faithfully,

Alex & Lindy Day
106 Fairwater Drive,
Harrington Park.
NSW 2567

From: katherine de Bry <kaydebry@yahoo.com.au>
To: "plan_comment@planning.nsw.gov.au" <plan_comment@planning.nsw.gov.au>
Date: 2/8/2013 10:52 am
Subject: Coal seam gas

It is ridiculous to risk our water supply, our environment and our health just to get a bit of gas that will last a short time and make a few people rich.

Katherine de Bry

Faith is Knowing that when you step out into the darkness you will always have a platform under your feet or that you will sprout wings and fly like an eagle

To:
Mining and Industry Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Dear Sir/Madam

Re: Camden Gas Project Stage 3, Project Application 09_0048

I object to AGL's project application 09_0048 to mine for coal seam gas (CSG) in Campbelltown and Camden. The key reasons for my objection are stated below.

I am concerned that CSG mining is a technologically-evolving industry whose impacts have not been independently and scientifically fully researched and remain largely unknown. This view is supported by professional organisations and academics in evidence to the NSW Upper House and Senate Inquiries into Coal Seam Gas Mining in 2011 and by subsequent research here and overseas. We have had to rely on the industry for much of our information when the industry has a vested interest in the outcome. AGL is no different. It claims that the Camden Gas Project has been safely operating for 10 years. Yet we understand that impacts on groundwater and air quality have not been adequately monitored, and while AGL has been operating under an Environmental Protection Licence (EPL No. 12003), it has been allowed to self-monitor its compliance, self-investigate incidents and self-report such that we do not know what true impacts it may have had. Third party consultants and external laboratories that are engaged and paid for by the industry are not *independent*. Nor is any funded or co-funded research by the CSG mining industry. These lessons should have been learnt with asbestos in Australia and with 'Big Tobacco' in the USA. The National Water Commission in its Position Statement (3rd December 2010) said that impacts may emerge over a long time period. I am deeply concerned that the costs of unforeseen problems will be borne by the community and taxpayers after AGL is long gone from the area. This is grossly irresponsible.

Doctors for the Environment Australia claims that health impacts from CSG mining have not been assessed. Preliminary research from Queensland (e.g. by Southern Cross University in Tara) and overseas is deeply concerning, especially where fracking has been used. As at December 2011, 85% of the production wells in the Camden Gas Project had been fracked (evidence from the NSW Upper House Inquiry) with inadequate monitoring of its impacts on water in particular. AGL claims that the use of horizontal wells in the proposed Stage 3 will reduce the need for fracking, but it seems that this is not entirely true since it has reserved the right to frack these wells in the future if/when the technology becomes available. The size of the proposed well clusters and any fracking of horizontal wells are both new and untested here. It will therefore be entirely experimental with unknown outcomes on health and property including the possibility of subsidence under so many urban properties.

I am also concerned about evidence from Queensland and overseas on air quality and the cumulative impact of AGL's expansion into an area that already experiences incidents of unacceptable levels of air pollution (ozone and fine particles) associated with respiratory problems (NSW Environmental Protection Authority). AGL's past performance gives no confidence that it has not already contributed to this or that it can be managed in the future,

having admitted in August this year that it had not conducted continuous air monitoring at its Rosalind Park Gas Treatment Plant for three years in breach of its EPL No.12003.

Allowing CSG mining in areas that are not zoned for heavy industry undermines zoning controls and confidence in the planning process, and creates severe land use conflicts, economic instability and inequity. It will disrupt religious communities whose vocations have so far been protected by the Scenic Hills zoning; it will place undue burden on small rural allotments whose capacity to cope is severely reduced by size (thereby threatening the survival of the entire historic Scenic Hills), and it is unsightly and unsafe in urban areas with a potential escalation in CSG mining incidents and accidents associated with the more intense urban activity (traffic, people etc.), the presence of children, and potential for vandalism. The consequent impact on land and house values for existing land and home owners may be devastating. For many people the home is their largest asset and is often leveraged to support small business. Any devaluation by bank assessors may destroy livelihoods and life savings.


I do not believe that the NSW Government's new regulations for CSG mining will ensure its safe operation here. As the only commercially producing CSG field in NSW, the Camden Gas Project has already been operating under consent conditions. Yet the NSW Government has not been able to ensure compliance, as evidenced by on-going breaches by AGL of its licence conditions, and the discovery of incidents that might not have been reported were it not for community vigilance, such as the Sugarloaf well incident in May 2011 in Menangle that allowed well contents to drift over Sydney's water channel and to nearby Glen Alpine houses.

The proposal poses risks to Sydney's water in general and to the South West in particular that have not been adequately assessed. While AGL claims that the *geology of the Sydney Basin is well known*, AGL's rationale for the constant modification of prior stages of the Camden Gas Project seems to contradict this, as does its admission to the Scenic Hills Association that it does not know where the aquifers here run to but *probably Sydney Harbour*. Potential impacts on Sydney Harbour, on the nearby Sydney Water Catchment, and AGL's proposal to run its gas gathering pipeline along Sydney's Upper Canal on public land are unacceptable risks to Sydney's water, and are an abuse of public property for the benefit of private investors.

AGL will only ever produce about 5% of NSW's gas from the Camden Gas Project according to evidence it gave under oath at the NSW Upper House Inquiry. This does not justify the risks and potential costs to the community, particularly since 150,000+ people already live and work in the immediate affected area, and this is in Sydney's south west growth corridor. It is socially, environmentally and economically unjustified, and has no social licence to operate here.

I acknowledge that my name will appear on my submission when publicly exhibited.

Yours sincerely

Name	Caitylyn De Corrado
Address	6 westland close Raby 2566
Signature	
Date	2/2/13

Date 29 January 2013

Dear Director of Mining and Industry Projects NSW,

Reference: Submission opposing AGL Coal Seam Gas (AGL-CSG) Camden Gas Project – Northern Expansion (Stage 3)
Project Application No 09_0048

I wish to object to the entire AGL – CSG Camden Expansion Proposal. I have only recently become aware of the full extent of the proposed expansion of AGL Coal Seam Gas drilling, mining and “fracing” (“fracturing”) under our homes, schools, workplaces and catchment areas in my local area.

I am not against mining at all, however I believe that introducing toxic and dangerous AGL Coal Seam Gas mining under our existing populated communities, in the Macarthur area and in the Sydney Metropolitan area is totally inappropriate.

The major reasons why I oppose the entire AGL Coal Seam Gas Expansion are:

- Threats to air quality and health
 - Serious health risks have been identified in other areas with gas wells, including dramatic increases in respiratory diseases, asthma and skin conditions
 - Potential for long term undetected gaseous leaks forming toxic fugitive plumes in our breathing space
 - Risks of uncontrollable toxic emissions to earth, air and water threatening our communities
- Threats to our natural environment – geology and hydrology
 - Long term geological damage to drinking water, water tables, creek beds and rivers
 - Contamination of South Creek and Narellan Creek feeding the Hawkesbury-Nepean Catchment
 - Structural damage to the Sydney Water Supply Channel, undermined by at least 6 parallel drilling locations in our area at CU02, CU06, CU10, CU14, CU20 and CU22, each with 6 wells
 - Structural damage to built environments and dangerous land slip in a predominantly clay sub soil
 - Expansion and shrinkage of clay and shale sub-structures causing fracturing to gas pipes
 - Risks in waste management of by-products including neuro-toxin particles in earth, water and air
- Incompatible land use layering
 - Allowing developed residential, commercial, educational and recreational zonings to be undermined, compromised and degraded by a toxic and dangerous mining industry
- Unpredictable noise disturbance
 - Inadequate credible studies into 24 hour drilling, mining and fracing noise levels impacting on our health
 - Failure to acknowledge long term sub-surface noise levels on neurological and sleeping disturbance patterns
- Deeply flawed community consultation, lacking honesty and transparency
 - AGL provided only 2 copies of the Environmental Assessment – one at Camden Council foyer and one at Campbelltown, and withdrew the original Environmental Assessment October of 2010 so that the community could not compare the original proposal with the amended Main Report October of 2012.
 - Failure of AGL to accept that many people do not have access to the internet, and those who have internet access would have great difficulty reading a 3000 page document on a computer screen or at all.
 - Failure by AGL to provide complimentary CDs of their proposal to residents upon request
 - Poorly advertised information sessions, at which AGL specialist consultants could not answer questions
 - A poorly designed AGL-CSG website, which I found difficult to navigate to try to find information
 - Failure by AGL to show the 2,500 metre radius of each drilling footprint under homes, schools and creeks
- Underhanded political posturing and decision making processes
 - Government departments do not seem to have carried out complete, professional, expert and independent analysis of the AGL-CSG proposal, and if they have, this has not been conveyed to the general public.
 - Premier O’Farrell trivialised drilling lines as being the size of a “teacup” (SMH 7.7.12 page 7 Editorial) when in fact AGL state in “2012 Main Report Chapter 4.3” that drilling varies from 178mm to 2000mm in diameter in the fracing reaming process and the lines are up to 2,500 metres long. I do not think having a 2m wide tunnel drilled under my home is acceptable.

I totally oppose the entire AGL-CSG Camden Expansion Proposal and expect that all authorities do likewise in order to protect my family lifestyle and the vital future of our community.

Yours sincerely,

Name: Grace DeGiorgio *GDGiorgio*
Address: 2 Willis Rd Arasmere 2570

Jane Lucas

From: Annette Dean <adean10@bigpond.com>
Sent: Wednesday, 12 December 2012 5:03 PM
To: Annette Dean
Subject: RE CAMDEN GAS PROJECT STAGE #< PROJECT APPLICATION 09_0048

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Purple Category

Re: Camden Gas Project Stage 3, Project Application 09_0048

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- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

From: Sue Dean <mostly_dejavu@yahoo.com.au>
To: "information@planning.nsw.gov.au" <information@planning.nsw.gov.au>
Date: 2/7/2013 6:13 pm
Subject: Objection to Coal Seam Gas Mining, Northern Expansion Camden / Campbelltown Area
Attachments: Objection to Coal Seam Gas.docx

Department of Planning and Infrastructure
GPO Box 39
Sydney NSW 2001

Objection to Coal Seam Gas Mining, Northern Expansion Camden / Campbelltown Area

Please see attached file objecting to CSG Mining in Campbelltown.

PLEASE PUT THE HEALTH OF THE ENVIRONMENT AND THE COMMUNITIES FIRST RATHER
THAN THE PROFITS TO MULTINATIONAL MINING COMPANIES!

Sue Dean

coalandgasstrategy@planning.nsw.gov.au>

Objection to Coal Seam Gas Mining, Northern Expansion Camden / Campbelltown Area

Dear Sir/Madam,

I am a resident of Campbelltown and I would like to register my objection to the Coal Seam Gas Mining, Northern Expansion in the Camden / Campbelltown Area. I'm fully aware that as a country we need to maintain a sustainable future. But it seems to me to be jumping the gun with using coal seam gas exploration without the NSW Health and Environmental Departments acknowledging that CSG mining is associated with many environmental and health issues as has become evident in many areas (in Australia and overseas) where CSG mining occurs.

The NSW Government was voted in by the people of NSW not by the mining companies!! The NSW Government thus has an obligation to ensure a safe and healthy environment for its voters, NOT an obligation to appease the greed of mining companies. Therefore before any further approval is given for additional CSG exploration and mining sites in NSW, thorough **independent investigations** must be made into the health and environmental issues attributed to coal seam gas projects. The NSW government should never rely solely on information provided by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd. and other multinationals that have a vested monetary interest in CSG.

The NSW government justifies the approval for further mining in the Campbelltown area based on very shallow premises, which are as follows:

- The mining project would provide economic benefits to the NSW Government. However any amount of money that is generated in capital investment by CSG mining that is received by the government would be a small "drop in the ocean" for the NSW state coffers and should therefore not be considered. Furthermore this money will not go very far in compensation if it is later found that people have become ill from the contaminants to the soil or to the water supply due to CSG.

- Creation of jobs is also cited as a reason to proceed with this proposal. However when you consider that over 151,000 people live in the Campbelltown area, the pitiful numbers of construction and operational jobs created by CSG mining in our area would be like a "slap in the face" to the people of Macarthur. The Macarthur area suffers from high levels of unemployment, so the few jobs created would make very little difference to our unemployment figures.

- CSG will provide natural gas to the Sydney market. Considering the extensive land size of this project in the Campbelltown area, and the number of CGS wells, the amount of gas obtained from these wells has never been mentioned. Furthermore what is stopping AGL from converting the CSG into liquid natural gas (LNG) and exporting it to Asia, China, India and Japan? That is what multinationals do; they sell commodities to whoever will pay the most! Australians (in this case the people of Campbelltown) will be the ones that lose out not only because we will have to compete for the gas with international countries but also because we will be left with all the damage to OUR environment, to OUR health and to OUR properties.

- CSG mining will assist the State to reduce its overall greenhouse gas emissions. However studies in Queensland show that the methane gas released into the atmosphere through fugitive emissions make CSG on par with coal mining. An audit of Queensland CGS well heads in 2010 found that out of 2719 sites inspected, 5 sites were leaking to the extent that they were a **flammable risk**, and a further 29 sites were leaking at below the point that they were considered flammable. Studies by the US EPA and by Cornell University's Robert Howarth, as well as others who study Climatic Change, on the other hand, suggest **that coal seam gas extraction is twice as greenhouse gas intensive as coal!** This is largely due to methane leakage into the atmosphere due to hydraulic fracturing (or "fracking").

Australian politicians unfortunately have a tendency to rely exclusively on industry-based literature when making vital decisions. This mistake has been made by many politicians including those in the Queensland Parliament who to their State's detriment drew their arguments supporting CGS straight from literature supplied by the gas industry. If your Department follows that trend it will make the same mistakes as the Queensland government! There are many serious environmental, safety and health issues associated with CSG mining as a direct result of fracking some of which are mentioned below.

- The fracking process uses huge volumes of water which could effect ground and surface water levels.
- Fracking water contains sand and a large number of chemicals which can contaminate land including farm and residential land as well as ground and underground water.
- The contaminated water needs to be disposed of safely or properly treated.
- The residue of the chemicals used in the fracking process need to be safely disposed.
- The risk of fractures is very plausible with hydraulic fracturing beeing linked to small earthquakes in England and the USA
- Emissions of escaping methane gas will contribute to Australia's greenhouse gas emissions as recently occurred in Queensland.
- Blasting mishaps during coal seam fracking operations can result in the connection of local aquifers to the coal seam gas well. This scenario happened in Queensland in 2009. The connection allowed the chemicals used in the blasting to migrate into the aquifer!
- Leaking sites can became a **flammable risk** especially when located in bush land or close to residential properties. Australia has enough bush fires without the additional hazards that CSG site provide.

Further problems associated with CSG become very apparent if you read the article "Contaminated Sites and Accidents Related Specifically to CSG / LNG in Australia" <http://coalseamgasnews.org/wpcontent/uploads/2012/10/Contaminated-sites-and-accidents-related-specifically-to-CSG-in-Australia.pdf> This paper depicts **51 problems** associated with **CSG in Australia between 1998 and Sept 12 2012**. Add to this is the hard evidence from the US where this technology was originally developed. Residents in the US have experienced a variety of chronic health problems directly traceable to the contamination of their air, of their water wells and of surface water!

With so much information available of CSG going WRONG how can the NSW government

turn a blind eye to these issues? Surely not all of the problems experienced both here and overseas are a “coincidence” as the mining companies would like us to believe?

It is so easy for the government to say that it is “confident that the benefits of CSG mining can be achieved without significant impacts on the environment or residences in the areas surrounding the site. And ...that the impacts of the project can be managed and/or mitigated to ensure an acceptable level of environmental performance.” However the hard evidence of problems occurring as a direct result of CSG is contrary to what has happened and is currently happening both in Australia and in other countries where CSG mining occurs!!

We as a nation need to acknowledge that there are substantial gaps in our knowledge of CSG mining in relation to the effects on the environment, health and socio-economic factors. Making any major mistake now could effect our general environment including our flora, fauna, livestock, crops, land, water, homes and as well as the health of the population for many years into the future. Therefore before any new CSG sites are approved the NSW government should carry out its own independent studies rather than rushing blindly ahead in order to make a very small economic gain.

Below are further points I want your department to consider before the project continues any further:

1. A Strategy should be designed to implement Environmentally Sustainable Development, including a transition to renewable energy, rather than seeking to maximise coal and coal seam gas production.
2. There should be an immediate moratorium on any further licenses or approvals, especially coal seam gas exploration licenses, until extensive independent studies are undertaken and the system is reformed.
3. There should be up-front independent strategic planning that identifies and permanently excludes areas of **important natural resources, productive agricultural land and residential properties** from exploration or mining.
4. There should be detailed environmental and social assessment requirements for **each and every individual** mine or gas extraction application. Assessment should include quantification of the social and environmental costs of a range of mine intensity options.
5. Local regional water studies should be conducted prior to the granting of Exploration Licenses for coal and gas extraction approvals.
6. There should be a requirement for Aquifer Interference Approvals under the Water Act 2007 for any activities that will impact on groundwater, as well as waters within creeks, streams or rivers where mining occurs under these bodies of water.
7. All water extraction should require licenses, and strict water quality requirements should be enforced.
8. There should be regular and thorough independent reviews of compliance with conditions of approval, mine operation plans and environmental management plans.
9. There should be an urgent analysis of the **long-term** costs and benefits of the coal and gas industry (ie. over 100 years) that includes all external costs such as greenhouse gas emissions, loss of aquifers, loss of biodiversity, loss of agricultural land, health impacts, impacts to homes, impacts on other industries, impacts on employment opportunities, and loss of rural or social structures.
10. Companies should be held totally responsible and liable if their exploration techniques do cause damage to **human or animal health, natural resources, productive agricultural land and or residential properties**.
11. **The directors of AGL all exploration companies including Gas Production**

(Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd. should be held personally responsible for any damage caused by their activities and be financially liable for restoration works and/or compensation.

PLEASE PUT THE HEALTH OF THE ENVIRONMENT AND THE COMMUNITIES FIRST RATHER THAN THE PROFITS TO MULTINATIONAL MINING COMPANIES!
I await your response.

- **Major environmental issues with CSG include:**
 - **compatibility of land use (eg. farming v CSG)**
 - **surface water impacts (toxics, erosion, floods, ...)**
 - **groundwater impacts – quantity & quality**
 - **toxic pollutants released – accidents or ongoing operations**

The extent of scientific research documenting these risks is MINIMAL

- **Groundwater is a COMPLEX resource to assess & manage ... Australia's track record is widely acknowledged to be poor**
- **Major groundwater concerns vs CSG include:**
 1. **Altering groundwater flow regimes, especially deep to shallow aquifers**
 2. **Poor quality of CSG formation waters**
 3. **Potential for explosive buildup of methane gas**
 4. **Dependence of rural communities & industries on groundwater**
- **CSG industry in Australia is closely related to the use of fracking chemicals**
- **Yet we still do not understand the full extent of groundwater risks**
- **Both industry & government have been too lax in simply believing minimal impacts**
- **Need much greater monitoring & transparency**

Track record is poor on both fronts

- **CSG is a technically viable way to produce gas, often very profitable BUT**
- **CSG has major issues around water**
 - **Often poor quality water extracted with CSG**
 - **Can be major impacts on groundwater resources – still major uncertainty with extent**

Whether CSG should muscle out renewable energy is yet to be seen

This movement quite rightly points out that the coal seam gas industry is conducting an uncontrolled experiment on the Australian environment that could cause serious harm to the Great Artesian Basin and this could take centuries to fix.

That the industry does not know what to do with the water and salt that comes to the surface.

That farmers could lose their bore water or have it contaminated and rural landowners will probably have extraordinary difficulty going about their everyday activities and not be able to sell their land if it has gas infrastructure on it.

CSG's huge potential comes as a result of Australia's extensive coal deposits stretching for many thousands of square kilometres beneath our cities, farmlands and national parks. Our major coal seams run for more than 1500km from Wollongong in NSW, to Collinsville in central Queensland with other significant coal resources across all states.

There are, of course, economic and social benefits that will come from CSG mining. In Australia, many key gas extraction sites are close to local domestic users. The industry will create jobs – and there's the potentially lucrative export market. Billions of dollars have already been invested in CSG, and it will develop into an active sector in the foreseeable future, yet t

Coals not created equal

Not all coals are the same; deposits have developed under a range of geological conditions requiring a variety of extraction methods, all with, as yet, unknown after-effects.

The wells, or boreholes, built to access the gas can be either vertical, or curved using 'directional drilling' to follow undulating coal seams. These seams have numerous small fractures that are usually tight, limiting the movement of gas and fluid. The width of these fractures is increased using a process known as 'hydraulic fracturing' or 'fracking', which releases trapped fluids, enhancing gas drainage from the seam. Fracking involves injecting water, sand and small amounts of chemical additives (including acids, salts, gelatine and enzymes) into the well under extremely high pressure, which then expands the fractures in the coal seams.

The additives help alter the surface tension between the fluid and the coal, enhancing its mobility through the fracture network – they also dissolve minerals, stabilise the clays and prevent corrosion. The grains of sand prop open the fractures, improving the effectiveness of the extraction technique. The area around the well is subsequently depressurised, causing water and gas to flow back towards the well from where it's extracted to the surface.

The impacts of a CSG well are not only felt in the immediate locality. The influence of depressurisation can extend horizontally for several kilometres through a seam. Usually the change in pressure between vertical layers is minimal – but if the rocks are permeable or cracked, then, over years or decades, overlying aquifers could be affected, potentially lowering water levels and ultimately impacting irrigation and domestic wells. If we subsequently find out that CSG was the cause, nothing could be done in the short term to restore water levels in affected wells. It would take decades – perhaps even centuries – to restore pressures throughout aquifers.

The problem with CSG wastewater

Some CSG wells, in particular in Queensland, will produce tens of millions of litres of waste water each year. Much of this water is saline and, if released, has the potential to alter the temperature, acidity and chemistry of local streams and lakes, wiping out plants and animals. Even with best practices adopted, accidents still happen. In the Pilliga, for example, thousands of litres of saline water have already been released, killing trees near one CSG drilling site. The chemistry of untreated saline water can cause topsoils to break down and wash away so, in this form, it can't be recycled for agriculture. To date, most CSG waste has been stored in ponds, but this is an unsatisfactory solution. As the water evaporates, the salts in it concentrate, forming brines. Over time, there's a risk that the ponds will leak into underlying aquifers, or the brines will escape into the surface water during floods.

Proposed solutions include reinjecting waste water into deep aquifers; it's a possible answer, but not yet available on the scale required to be effective. Waste water can also be purified using membrane or thermal techniques – but these use energy and therefore raise the greenhouse footprint of CSG, while still leaving behind the salt element to be disposed of in landfills.

Two extensive research projects in the USA, including one by the Environmental Protection Agency (EPA), detected unsafe levels of methane in groundwater up to 1km away from gas-production sites. Methane rapidly escapes from water when it reaches the surface, adding to greenhouse gases, and, if contaminated groundwater is used for domestic water supply, hazardous methane gas can build up to explosive levels in homes. However, while this has happened in the USA, the risk is extremely low here in Australia.

Although CSG produces less carbon dioxide than coal during power generation, overall benefits in terms of greenhouse gas reduction may be negligible.

However, if we regard CSG as a transitional fuel along the path to renewable energy, then there are locations in Australia where it could be extracted safely by adhering to best practice processes, and consequently minimising the environmental impact. Wells could be limited to degraded farmland and localities where it can be extracted with low volumes of water. To speed up the shift to renewable energy, more government and industry support is needed for research into these options.

Our regulatory framework is playing catch-up: creating guidelines on the fly and trailing different ways to get rid of waste water safely, while also expediting new developments. This isn't inspiring confidence in the expansion of the sector, and if mistakes are made, the effects will be felt for generations.

The gas has already sat in the ground for millions of years. Will a few more years of necessary research and diligence on the impacts of the coal seam gas industry hurt anybody?

<http://www.australiangeographic.com.au/journal/csg-gas-mining.htm>

From: Sue Dean <mostly_dejavu@yahoo.com.au>
To: "information@planning.nsw.gov.au" <information@planning.nsw.gov.au>
Date: 2/7/2013 6:26 pm
Subject: Objection to Coal Seam Gas Mining, Northern Expansion Camden / Campbelltown Area
Attachments: Objection to Coal Seam Gas.docx

Dear Sir/Madam,

I would like to register my objection to Coal Seam Gas Mining, Northern Expansion Camden / Campbelltown Area. Please see the attached file.

Yours Sincerely,
Sue Dean

Department of Planning and Infrastructure
GPO Box 39
Sydney NSW 2001

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I am a resident of Campbelltown and I would like to register my objection to the Coal Seam Gas Mining, Northern Expansion in the Camden / Campbelltown Area. I'm fully aware that as a country we need to maintain a sustainable future. But it seems to me to be jumping the gun with using coal seam gas exploration without the NSW Health and Environmental Departments acknowledging that CSG mining is associated with many environmental and health issues as has become evident in many areas in Australia as well as overseas where CSG mining occurs.

The NSW Government was voted in by the people of NSW not by the mining companies! The NSW Government thus has an obligation to ensure a safe and healthy environment for its voters, NOT an obligation to appease the greed of mining companies. Therefore before any further approval is given for additional CSG exploration and mining sites in NSW, thorough **independent investigations** must be made into the health and environmental issues attributed to coal seam gas projects. The NSW government should never rely solely on information provided by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd. and/or other multinationals that have a vested monetary interest in CSG.

The NSW government justifies the approval for further mining in the Campbelltown area based on very shallow premises, which are as follows:

- The mining project would provide economic benefits to the NSW Government. However any amount of money that is generated in capital investment by CSG mining that is received by the government would be a small “drop in the ocean” for the NSW state coffers and should therefore not be considered. Furthermore this money will not go very far in compensation if it is later found that people have become ill from the contaminants to the soil or to the water supply due to CSG. If people become sick, this would lead to an increase in the use of medical services, including public hospitals which are directly funded by the government.

- Creation of jobs is also cited as a reason to proceed with this proposal. However when you consider that over 151,000 people live in the Campbelltown area, the pitiful numbers of construction and operational jobs created by CSG mining in our area would be like a “slap in the face” to the people of Macarthur. The Macarthur area suffers from high levels of unemployment, so the few jobs created would make very little difference to our unemployment figures, whereas problems arising from CSG could last for many, many years.

- CSG will provide natural gas to the Sydney market. Considering the extensive land size of this project in the Campbelltown area, and the number

of CSG wells, the amount of gas that will be obtained from these wells has never been mentioned. Furthermore what is stopping AGL from converting the CSG into liquid natural gas (LNG) and exporting it to Asia, China, India and Japan? That is what multinationals do; they sell commodities to whoever will pay the most! Australians (in this case the people of Campbelltown) will be the ones that lose out not only because we will have to compete for the gas with international countries, but also because we will be left with all the damage to OUR environment, to OUR health and to OUR properties.

- CSG mining will assist the State to reduce its overall greenhouse gas emissions. However studies in Queensland show that the methane gas released into the atmosphere through fugitive emissions make CSG on par with coal mining. An audit of Queensland CSG well heads in 2010 found that out of 2719 sites inspected, 5 sites were leaking to the extent that they were a **flammable risk**, and a further 29 sites were leaking at below the point that they were considered flammable. Studies by the US EPA and by Cornell University's Robert Howarth, as well as others who study Climatic Change, on the other hand, suggest that "**coal seam gas extraction is twice as greenhouse gas intensive as coal**". This is largely due to methane leakage into the atmosphere due to hydraulic fracturing (or "fracking").

Australian politicians unfortunately have a tendency to rely exclusively on industry-based literature when making vital decisions. This mistake has been made by many politicians including those in the Queensland Parliament who to their State's detriment drew their arguments supporting CSG straight from literature supplied by the gas industry. If your Department follows that trend it will make the same mistakes as the Queensland government! There are many serious environmental, safety and health issues associated with CSG mining as a direct result of fracking some of which are mentioned below.

- The fracking process uses huge volumes of water which could effect ground and surface water levels.
- Fracking water contains sand and a large number of chemicals which can contaminate land including farm and residential land as well as ground and underground water.
- The contaminated water needs to be disposed of safely or properly treated.
- The residue of the chemicals used in the fracking process need to be safely disposed.
- The risk of fractures is very plausible with hydraulic fracturing being linked to small earthquakes in England and the USA
- Emissions of escaping methane gas will contribute to Australia's greenhouse gas emissions as has recently occurred in Queensland.
- Blasting mishaps during coal seam fracking operations can result in the connection of local aquifers to the coal seam gas well. This scenario happened in Queensland in 2009. The connection allowed the chemicals used in the blasting to migrate into the aquifer!
- Leaking sites can become a **flammable risk** especially when located in bushland or close to residential properties. Australia has enough bush fires without the additional hazards that CSG sites provide.

Further problems associated with CSG become very apparent if you read the article "Contaminated Sites and Accidents Related Specifically to CSG / LNG in Australia"

<http://coalseamgasnews.org/wpcontent/uploads/2012/10/Contaminated-sites-and-accidents-related-specifically-to-CSG-in-Australia.pdf> This paper depicts **51 problems** associated with **CSG in Australia between 1998 and Sept 12 2012**. Add to this is the hard evidence from the US where this technology was originally developed. Residents in the US have experienced a variety of chronic health problems directly traceable to the contamination of their air, of their water wells and of surface water!

With so much information available of CSG going **WRONG** how can the NSW government turn a blind eye to these issues? Surely not all of the problems experienced both here and overseas are a “coincidence” as the mining companies would like us to believe?

It is so easy for the government to say that it is “confident that the benefits of CGS mining can be achieved without significant impacts on the environment or residences in the areas surrounding the site”. And ... “that the impacts of the project can be managed and/or mitigated to ensure an acceptable level of environmental performance.” However the hard evidence of problems occurring as a direct result of CSG is contrary to what has happened and is currently happening both in Australia and in other countries where CSG mining occurs!!

We as a nation need to acknowledge that there are substantial gaps in our knowledge of CSG mining in relation to the effects on the environment, health and socio-economic factors. Making any major mistake now could effect our general environment including our flora, fauna, livestock, crops, land, water, homes and as well as the health of the population for many years into the future. Therefore before any new CSG sites are approved, the NSW government should carry out its own independent studies rather than rushing blindly ahead in order to make a **very small economic gain**.

Below are further points I want your department to consider before the project continues any further:

1. A Strategy should be designed to implement Environmentally Sustainable Development, including a transition to renewable energy, rather than seeking to maximise coal and coal seam gas production.
2. There should be an immediate moratorium on any further licenses or approvals, especially coal seam gas exploration licenses, until extensive independent studies are undertaken and the system is reformed.
3. There should be up-front independent strategic planning that identifies and permanently excludes areas of **important natural resources, productive agricultural land and residential properties** from exploration or mining.
4. There should be detailed environmental and social assessment requirements for **each and every individual** mine or gas extraction application. Assessment should include quantification of the social and environmental costs of a range of mine intensity options.
5. Local regional water studies should be conducted prior to the granting of Exploration Licenses for coal and gas extraction approvals.
6. There should be a requirement for Aquifer Interference Approvals under the Water Act 2007 for any activities that will impact on groundwater, as well as waters within creeks, streams or rivers where mining occurs under these bodies of water.
7. All water extraction should require licenses, and strict water quality requirements should be enforced.
8. There should be regular and thorough independent reviews of compliance with conditions of approval, mine operation plans and environmental management plans.
9. There should be an urgent analysis of the **long-term** costs and benefits of the coal and gas

industry (ie. over 100 years) that includes all external costs such as greenhouse gas emissions, loss of aquifers, loss of biodiversity, loss of agricultural land, health impacts, impacts to homes, impacts on other industries, impacts on employment opportunities, and loss of rural or social structures.

10. Companies should be held totally responsible and liable if their exploration techniques do cause damage to **human or animal health, natural resources, productive agricultural land and or residential properties.**

11. The directors of AGL all exploration companies including Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd. should be held personally responsible for any damage caused by their activities and be financially liable for restoration works and/or compensation.

PLEASE PUT THE HEALTH OF THE ENVIRONMENT AND THE COMMUNITIES FIRST RATHER THAN THE PROFITS TO MULTINATIONAL MINING COMPANIES!

I await your response.

Sue Dean

To:
Mining and Industry Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Dear Sir/Madam

Re: Camden Gas Project Stage 3, Project Application 09_0048

I object to AGL's project application 09_0048 to mine for coal seam gas (CSG) in Campbelltown and Camden. The key reasons for my objection are stated below.

I am concerned that CSG mining is a technologically-evolving industry whose impacts have not been independently and scientifically fully researched and remain largely unknown. This view is supported by professional organisations and academics in evidence to the NSW Upper House and Senate Inquiries into Coal Seam Gas Mining in 2011 and by subsequent research here and overseas. We have had to rely on the industry for much of our information when the industry has a vested interest in the outcome. AGL is no different. It claims that the Camden Gas Project has been safely operating for 10 years. Yet we understand that impacts on groundwater and air quality have not been adequately monitored, and while AGL has been operating under an Environmental Protection Licence (EPL No. 12003), it has been allowed to self-monitor its compliance, self-investigate incidents and self-report such that we do not know what true impacts it may have had. Third party consultants and external laboratories that are engaged and paid for by the industry are not *independent*. Nor is any funded or co-funded research by the CSG mining industry. These lessons should have been learnt with asbestos in Australia and with 'Big Tobacco' in the USA. The National Water Commission in its Position Statement (3rd December 2010) said that impacts may emerge over a long time period. I am deeply concerned that the costs of unforeseen problems will be borne by the community and taxpayers after AGL is long gone from the area. This is grossly irresponsible.

Doctors for the Environment Australia claims that health impacts from CSG mining have not been assessed. Preliminary research from Queensland (e.g. by Southern Cross University in Tara) and overseas is deeply concerning, especially where fracking has been used. As at December 2011, 85% of the production wells in the Camden Gas Project had been fracked (evidence from the NSW Upper House Inquiry) with inadequate monitoring of its impacts on water in particular. AGL claims that the use of horizontal wells in the proposed Stage 3 will reduce the need for fracking, but it seems that this is not entirely true since it has reserved the right to frack these wells in the future if/when the technology becomes available. The size of the proposed well clusters and any fracking of horizontal wells are both new and untested here. It will therefore be entirely experimental with unknown outcomes on health and property including the possibility of subsidence under so many urban properties.

I am also concerned about evidence from Queensland and overseas on air quality and the cumulative impact of AGL's expansion into an area that already experiences incidents of unacceptable levels of air pollution (ozone and fine particles) associated with respiratory problems (NSW Environmental Protection Authority). AGL's past performance gives no confidence that it has not already contributed to this or that it can be managed in the future,

having admitted in August this year that it had not conducted continuous air monitoring at its Rosalind Park Gas Treatment Plant for three years in breach of its EPL No.12003.

Allowing CSG mining in areas that are not zoned for heavy industry undermines zoning controls and confidence in the planning process, and creates severe land use conflicts, economic instability and inequity. It will disrupt religious communities whose vocations have so far been protected by the Scenic Hills zoning; it will place undue burden on small rural allotments whose capacity to cope is severely reduced by size (thereby threatening the survival of the entire historic Scenic Hills), and it is unsightly and unsafe in urban areas with a potential escalation in CSG mining incidents and accidents associated with the more intense urban activity (traffic, people etc.), the presence of children, and potential for vandalism. The consequent impact on land and house values for existing land and home owners may be devastating. For many people the home is their largest asset and is often leveraged to support small business. Any devaluation by bank assessors may destroy livelihoods and life savings.

I do not believe that the NSW Government's new regulations for CSG mining will ensure its safe operation here. As the only commercially producing CSG field in NSW, the Camden Gas Project has already been operating under consent conditions. Yet the NSW Government has not been able to ensure compliance, as evidenced by on-going breaches by AGL of its licence conditions, and the discovery of incidents that might not have been reported were it not for community vigilance, such as the Sugarloaf well incident in May 2011 in Menangle that allowed well contents to drift over Sydney's water channel and to nearby Glen Alpine houses.

The proposal poses risks to Sydney's water in general and to the South West in particular that have not been adequately assessed. While AGL claims that the *geology of the Sydney Basin is well known*, AGL's rationale for the constant modification of prior stages of the Camden Gas Project seems to contradict this, as does its admission to the Scenic Hills Association that it does not know where the aquifers here run to but *probably Sydney Harbour*. Potential impacts on Sydney Harbour, on the nearby Sydney Water Catchment, and AGL's proposal to run its gas gathering pipeline along Sydney's Upper Canal on public land are unacceptable risks to Sydney's water, and are an abuse of public property for the benefit of private investors.

AGL will only ever produce about 5% of NSW's gas from the Camden Gas Project according to evidence it gave under oath at the NSW Upper House Inquiry. This does not justify the risks and potential costs to the community, particularly since 150,000+ people already live and work in the immediate affected area, and this is in Sydney's south west growth corridor. It is socially, environmentally and economically unjustified, and has no social licence to operate here.

I acknowledge that my name will appear on my submission when publicly exhibited.

Yours sincerely



16.01.2013

Les Deguara
51 Avon Dam Rd
Bargo NSW 2574
0419 486 172

To:
Mining and Industry Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001



Dear Sir/Madam

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I acknowledge that my name will appear on my submission when publicly exhibited.

Yours sincerely

Name	James Ardleton
Address	18 Macarthur Drive, Elderslie
Signature	J. Ardleton
Date	7-2-13

From: Aaron Denmeade <aza_dee@tpg.com.au>
To: <plan_comment@planning.nsw.gov.au>
Date: 2/8/2013 10:50 pm
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

MY ADDRESS: 5/3 Short St Leichhardt NSW 2040

Re: Camden Gas Project Stage 3, Project Application 09_0048

Please accept this as a submission on the Camden Gas Project Stage 3 Northern Expansion which is currently on public exhibition. I object to AGL's project application 09_0048 to drill for coal seam gas in Western Sydney.

Please put the health and wellbeing of the people of Greater Western Sydney above the profits of AGL who plan to expand their gas field around and under people's homes and businesses.

I urge you to reject the proposal by AGL to drill 66 new coal seam gas production wells on the grounds that:

- Reports from Queensland and overseas show that there are serious risks to air quality and human health from unconventional gas drilling. However there have been no detailed studies done to quantify those risks especially in urban areas. The people of Camden and Campbelltown should not be treated like guinea pigs in a coal seam gas experiment.
- People's homes should not be undermined by coal seam gas drilling without their knowledge or permission.
- Homeowners face declining property values within and adjoining coal seam gas fields with some estimating house values may fall up to 30%.
- The integrity of gas wells can't be guaranteed and research from gas fields in Queensland and the US has shown many fail in their first few year. This will leave the community to deal with the impact of leaking wells on air quality and local water supplies.
- New research from Southern Cross University on methane gas leaks from coal seam gas fields has not been considered in the proposal. AGL has not conducted these studies to account for methane leakage on their existing coal seam gas wells.
- Despite research from the Queensland and the US suggesting ground water contamination and gas leaks from fracking, the proposal by AGL will allow fracking.
- The impacts of horizontal drilling have not been adequately considered in the Environmental Assessment.
- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

Yours sincerely,
Aaron Denmeade

From: Raymond Dennis <rdennis8@bigpond.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 2/7/2013 11:01 pm
Subject: Coal Seam Gas
Attachments: CSG.docx

To Whom It May Concern,

Please refer to letter attached. Please send a confirmation email on receipt of this email.

Regards

Raymond Dennis

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

5th February 2013

RE: Camden Gas Project Stage 3, Project Application 09_0048, Northern Expansion of the Camden Gas Project

Dear Sir/Madam,

I am writing on behalf of my wife and daughter who have resided in Camden Park for the past 8 years. This is our objection to AGL's project application 09_0048 to mine for coal seam gas (CSG) in Macarthur. This is also a request that all current mines be shut down immediately.

In a modern universe, it is astounding to think that a government is willing to ignore the potential environmental, health, and community ramifications of CSG that will affect both future and existing families and businesses in the Macarthur area.

It is unfathomable that the community is expected to believe information released to the public when AGL is permitted to self-monitor their own compliance. AGL's vested interest in CSG should deem their position as a conflict of interest. The community's concerns are obviously not the only concern. NSW Health is also clearly alerted to the situation since requesting further assessments into health risks.

Before his election to NSW Premier, Mr Barry O'Farrell proclaimed he would not support CSG, yet mines are still operational well into Mr O'Farrell's premiership. Minister Brad Hazzard and Minister Chris Hartcher are obviously unable to understand or relate to communities they are meant to represent with their contentment to renew and approve mining leases.

The NSW Government should be learning from the flaws of the QLD government who are much more advanced in the development of CSG mining across QLD. There are now continuous reports of health issues, poor air quality, gas leaks and toxic emissions due to CSG expansion in QLD. NSW is also not without incidence and the government should recognise the radical increase in reports that will occur as CSG mining in NSW expands to QLD's scale.

The main reasons my family and I oppose this application and current operations is for the following reasons:

- Poor air quality causing health issues.
- Devaluation of property.

- Unknown chemicals used in fracking that are releasing harmful toxins.
- Affects on water quality, in particular to the Nepean River a major water source.
- No monitoring by the Department of Health or other regulatory bodies.
- AGL is in a direct conflict of interest by being permitted to self-monitor.
- QLD has released concerning results. For example in Tara children have bleeding noses, ears and headaches and the people in Tara cannot sell their properties cause no one wants to live in Gasland.
- CSG will turn out to be a bigger risk to health then asbestos. Asbestos was once believed by those in power to be not harmful.

The approval of new CSG developments and continuation of existing mines will ultimately lead to the detriment and devaluation of a wonderful community. For the sake of the future of the Macarthur region I urge you to listen to the community.

Regards,

Raymond Dennis

From: Rodney Deutschbein <rod@atlasfinancial.com.au>
To: <plan_comment@planning.nsw.gov.au>
Date: 2/6/2013 2:56 pm
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

56B William Street, The Oaks 2570

Re: Camden Gas Project Stage 3, Project Application 09_0048

Please accept this as a submission on the Camden Gas Project Stage 3 Northern Expansion which is currently on public exhibition. I object to AGL's project application 09_0048 to drill for coal seam gas in Western Sydney.

Please put the health and wellbeing of the people of Greater Western Sydney above the profits of AGL who plan to expand their gas field around and under people's homes and businesses.

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- The impacts of horizontal drilling have not been adequately considered in the Environmental Assessment.
- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

Yours sincerely,
Rodney Deutschbein

From: Julie Dixon <Juliedixon68@hotmail.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 1/22/2013 10:38 pm
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

MY ADDRESS: 5 Musgrave Place, Ruse, 2560

Re: Camden Gas Project Stage 3, Project Application 09_0048

Please accept this as a submission on the Camden Gas Project Stage 3 Northern Expansion which is currently on public exhibition. I object to AGL's project application 09_0048 to drill for coal seam gas in Western Sydney.

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Yours sincerely,
Julie Dixon

From: "Allan Doble" <elbod104@gmail.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 2/7/2013 5:07 pm
Subject: Camden Gas Project

Director of Mining and Industry Projects,

I am writing with great concern and my objections to the above project that will take place in the local Macarthur area. There are no guarantees from any Drilling Gas Co or Government Department involved that there will no impact on our area or country's environment, for that matter, as have been experienced in other overseas countries.

There is no doubt that toxic fracing will damage the subterranean structure that has been secured by millions of years of formation. There is no doubt that pouring dangerous chemicals under pressure must damage the aquifers even causing water escape routes that has taken millions of years to form also must cause some lowering of the water table. When you damage these earthly structures gases must escape through these additional fissures and must cause a dangerous situation (possible under some person's dwelling) and health problems to boot.

Because Camden is situated against the Razorback Range, Government records show it is one of the most if not the most polluted areas in the Sydney basin. This type of development will only aggravate the situation. As experienced in QLD families are being affected health wise and officials are not even prepared to satisfy these people with the possibility that they have a case and, you can rest assured the same will happen in NSW.

Commonsense dictates that this type of mining practice in its present state is dangerous and also highlights the fact that neither Governments nor Mining Companies would have the will, the Engineering knowledge or expertise to rectify any damage done. Even long wall mining which was considered safe has caused massive surface subsidence problems which at present are being monitored, but rest assured when the miners leave future affected people will be left with no redress as Governments will not have the funds to rectify. At present the Main Southern Railway has to have continual maintenance due to subsidence issues caused by local long wall mining.

Some Government Departments have grave concerns about gas mining ventures, they must be taken seriously and further investigations should take place. As I have mentioned previously that research, particularly in the USA, has shown that in addition to normal gas seepage some waterways have been badly affected and some bore water is now so contaminated with gas it can be set alight at the household tap.

Gas is now coming to the surface at some of Australian windmill

sites where gas drilling has taken place in the area.

When Modern Engineering becomes out of control there is a trade off and, that trade off is, community security. This should not be allowed to happen and commonsense prevail.

Yours faithfully,

Allan Doble, JP.

104 Pindari Ave., Camden 2570

From: Ben Doyle <benandcheryldoyle@gmail.com>
To: <matthew.riley@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 2/4/2013 7:55 pm
Subject: Submission Details for Ben Doyle (object)

Confidentiality Requested: no

Submitted by a Planner: no

Disclosable Political Donation: no

Name: Ben Doyle
Email: benandcheryldoyle@gmail.com

Address:
84 Thunderbolt Drive

Raby, NSW
2566

Content:

I am totally opposed to this project as I believe it will be detrimental to the quality and quantity of water available to the residents of the Macarthur area, myself included. I believe so strongly that I have ceased using AGL as my supplier of both Gas and Electricity. All of the local MP's are opposed to this project but the State Liberal Government, contrary to their promises, seem to be now in bed with AGL. This will definitely cause me to reconsider my lifetime of voting for the Liberal Party.

IP Address: 121-79-12-32.bb.ispone.net.au - 121.79.12.32
Submission: Online Submission from Ben Doyle (object)
https://majorprojects.affinitylive.com?action=view_diary&id=53848

Submission for Job: #2921 Camden Gas Project Stage 3 Northern Expansion
https://majorprojects.affinitylive.com?action=view_job&id=2921

Site: #41 Camden Gas Field; , Camden/Wollondilly/Campbelltown
https://majorprojects.affinitylive.com?action=view_site&id=41

From: Ella Drinkwater <ellart@live.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 1/19/2013 3:15 pm
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

MY ADDRESS:

Re: Camden Gas Project Stage 3, Project Application 09_0048

Please accept this as a submission on the Camden Gas Project Stage 3 Northern Expansion which is currently on public exhibition. I object to AGL's project application 09_0048 to drill for coal seam gas in Western Sydney.

Please put the health and wellbeing of the people of Greater Western Sydney above the profits of AGL who plan to expand their gas field around and under people's homes and businesses.

I urge you to reject the proposal by AGL to drill 66 new coal seam gas production wells on the grounds that:

- Reports from Queensland and overseas show that there are serious risks to air quality and human health from unconventional gas drilling. However there have been no detailed studies done to quantify those risks especially in urban areas. The people of Camden and Campbelltown should not be treated like guinea pigs in a coal seam gas experiment.
- People's homes should not be undermined by coal seam gas drilling without their knowledge or permission.
- Homeowners face declining property values within and adjoining coal seam gas fields with some estimating house values may fall up to 30%.
- The integrity of gas wells can't be guaranteed and research from gas fields in Queensland and the US has shown many fail in their first few year. This will leave the community to deal with the impact of leaking wells on air quality and local water supplies.
- New research from Southern Cross University on methane gas leaks from coal seam gas fields has not been considered in the proposal. AGL has not conducted these studies to account for methane leakage on their existing coal seam gas wells.
- Despite research from the Queensland and the US suggesting ground water contamination and gas leaks from fracking, the proposal by AGL will allow fracking.
- The impacts of horizontal drilling have not been adequately considered in the Environmental Assessment.
- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

Yours sincerely,
Ella Drinkwater

>>> David Druce <thedruces@bigpond.com> 2/4/2013 9:21 am >>>



Planning &
Infrastructure

Confidentiality Requested: no

Submitted by a Planner: no

Disclosable Political Donation: no

Name: David Druce

Email: thedruces@bigpond.com

Address:

36 Epping Forest Drive

Eschol Park, NSW

2558

Content:

I oppose this proposal on the following grounds

1. The technology is unproven
2. The health risks are unestablished
3. The effects on property values will be substantial
4. It goes against the principle of "a man's home is his castle"

IP Address: cpe-60-225-37-59.nsw.bigpond.net.au - 60.225.37.59

Submission: Online Submission from David Druce (object)

https://majorprojects.affinitylive.com?action=view_diary&id=53778

Submission for Job: #2921 Camden Gas Project Stage 3 Northern Expansion

https://majorprojects.affinitylive.com?action=view_job&id=2921

Site: #41 Camden Gas Field; , Camden/Wollondilly/Campbelltown

https://majorprojects.affinitylive.com?action=view_site&id=41

David Druce

E : thedruces@bigpond.com

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From: Elisha Duffy <elisha.duffy@hotmail.com>
To: <plan_comments@planning.nsw.gov.au>
Date: 2/7/2013 10:03 pm
Subject: Cambelltown coal seam gas submission objection

To whom it may concern,

I wish to express my strong concerns about the proposed Camden gas project stage 3 northern expansion.

I strongly object to the proposal and the mining of coal seam gas is such close proximity of my family home. I have strong health concerns about the project and wish.

Regards

Elisha duffy

Resident of Glen Alpine

From: Dorothy Dunshea <ddunshea43@optusnet.com.au>
To: <plan_comment@planning.nsw.gov.au>
Date: 2/5/2013 9:21 pm
Subject: Don't Sacrifice Greater Western Sydney to Coal Seam Gas

MY ADDRESS: 75 Wyangala Crescent Leumeah 2560

Re: Camden Gas Project Stage 3, Project Application 09_0048

Please accept this as a submission on the Camden Gas Project Stage 3 Northern Expansion which is currently on public exhibition. I object to AGL's project application 09_0048 to drill for coal seam gas in Western Sydney.

Please put the health and wellbeing of the people of Greater Western Sydney above the profits of AGL who plan to expand their gas field around and under people's homes and businesses.

I urge you to reject the proposal by AGL to drill 66 new coal seam gas production wells on the grounds that:

- Reports from Queensland and overseas show that there are serious risks to air quality and human health from unconventional gas drilling. However there have been no detailed studies done to quantify those risks especially in urban areas. The people of Camden and Campbelltown should not be treated like guinea pigs in a coal seam gas experiment.
- People's homes should not be undermined by coal seam gas drilling without their knowledge or permission.
- Homeowners face declining property values within and adjoining coal seam gas fields with some estimating house values may fall up to 30%.
- The integrity of gas wells can't be guaranteed and research from gas fields in Queensland and the US has shown many fail in their first few year. This will leave the community to deal with the impact of leaking wells on air quality and local water supplies.
- New research from Southern Cross University on methane gas leaks from coal seam gas fields has not been considered in the proposal. AGL has not conducted these studies to account for methane leakage on their existing coal seam gas wells.
- Despite research from the Queensland and the US suggesting ground water contamination and gas leaks from fracking, the proposal by AGL will allow fracking.
- The impacts of horizontal drilling have not been adequately considered in the Environmental Assessment.
- There are alternatives to coal seam gas, including renewable energy which can offer energy security without the unacceptable environmental and health risks posed by coal seam gas extraction.

Yours sincerely,
Dorothy Dunshea

"Sample Submission no. 1 – ALL SUBURBS"

Prepared by Narellan Action Group

OUR OPPOSITION TO AGL Coal Seam Gas Expansion

Page 1 of 2

INSTRUCTIONS - Use this only as a guide – rewrite in your own words - edit - add your own ideas – mix and match – cut and paste – "quote" media reports - READ DAILY & LOCAL NEWSPAPERS - express your feelings – a little controlled anger is fine – get your kids researching AGL and COAL SEAM GAS FRACING CHEMICALS websites and writing submissions as well !! You can turn the tone of this sample submission up or down to suit your message.

BE EARLY - OUR DEADLINE IS - FRIDAY 8 FEBRUARY 2013

-----START OF SAMPLE SUBMISSION-----

EMAIL TO: plan_comment@planning.nsw.gov.au

"without prejudice"

POST TO: THE DIRECTOR, MINING AND INDUSTRY PROJECTS
NSW DEPARTMENT OF PLANNING, GPO BOX 39, SYDNEY, NSW, 2001

Dear Director of Mining and Industry Projects NSW,

Reference : SUBMISSION OPPOSING AGL COAL SEAM GAS (AGL-CSG)
CAMDEN GAS PROJECT – NORTHERN EXPANSION (Stage 3)
Project Application No. 09_0048

My family moved to.....(SUBURB NAME) in 2005 for the great location, employment opportunities and a great lifestyle for our 3 children. With a selection of new and established schools, Campbelltown TAFE, the University of Western Sydney, Industrial Estates, Employment Zones, Town Centres and Sporting Facilities close by it seemed a perfect place to settle down for the long-term and raise a family.

Unfortunately, my youngest son has developed asthma since we moved here. We did not realise that the air quality is deceptively poor – in fact, the worst polluted atmospheric **Airshed** in Greater Sydney. If we can't breathe here, we can't live here. **Air Quality** is the critical health issue for all of us out here.

Recently we became aware of the proposed expansion of AGL Coal Seam Gas drilling, mining and 'fracing' or 'fracturing' under our homes, schools, workplaces, football fields, cricket ovals, leisure centres, our community halls, our churches, our petrol stations, our overhead bridges, open spaces and catchment areas.

If we had known about the AGL-CSG expansion we would have avoided the area and a \$450,000 life-time mortgage in a suburb destined for degrading and devaluing. It doesn't make any sense at all!

'Fracing' is actually "FRACTURING" – **breaking and cracking the sub-surface under us**. AGL falsely compares its 'fracing' chemistry to 'harmless' products on a laundry shelf, when in fact the real chemicals in vast quantities are highly volatile producing toxic gaseous and particulate emissions to earth, water and air. AGL Consultants have been grossly dishonest and deceitful in their minimal description of 'fracing' processes.

Despite misleading media reports AGL-CSG will definitely 'frac' under us. AGL's intentions are very clear in both their 2010 ENVIRONMENTAL ASSESMENT at Chapter 4.2 and in the 2012 MAIN REPORT at Chapter 3.4.

We are not against mining at all. However, introducing toxic and dangerous AGL Coal Seam Gas mining under our existing permissible land use zones of established and populated communities is totally inappropriate in every respect, and absolutely beyond our belief.

AGL conceals its toxic 'fracing' chemistry behind claims of 'commercial confidentiality'. We do know that AGL use concentrated acids and biocides among a huge list of chemical cocktails triggering volatile chemical reactions in coal and sandstone seams underneath our homes and schools. The fact that AGL will not disclose its 'fracing toxicology' is absolutely absurd – a nightmare with disastrous health and environmental consequences.

Mining is the most accident riddled industry in Australia. Mixing mining and untested chemistry under our homes as we sleep is a disastrous formula for **major critical incidents**. We don't need the threat of disaster, totally 'fracing' our dreams into nightmares, for over 20 years of sleeps, after busy days at school and work.

Do you and Minister Hazzard fully comprehend the potential implications of cumulative long-term toxic emissions to our earth, our water and breathing atmosphere? Have your planning experts fully analysed AGL's documents to find the serious omissions and false 'conceptual modelling' promoted as acceptable science?

We understand that AGL-CSG drilling, mining and 'fracing' under our populated and established communities is totally new to urban Australia. Is South Western Sydney AGL's and the O'Farrell Government's test case to expand toxic mining under metropolitan Sydney?

If you proceed with AGL's proposal you will be opening the pathway for a **massive class action** against all the decision makers, back door dealers and promoters of this toxic and hazardous industry.

We are not your "westie lab rats". We are not your experiment in 'social injustice' and socio-economic and environmental degradation? Don't do it in anyone's backyard. We know you'll never allow it in yours!

The major reasons why my family opposes the entire AGL Coal Seam Gas Expansion include –

Threats to Air Quality and health

- Well documented historic poor air quality across the 'project area' and Greater South Western Sydney
- Serious health risks including dramatic increases in respiratory diseases and asthma
- South Western Sydney already has the highest incidence of hospital admissions for asthma
- Dangerously incomplete physical and chemical analysis of Coal Seam Gas 'fracing' processes
- Potential for long term undetected gaseous leaks forming toxic fugitive plumes in our breathing space
- Risks of uncontrollable toxic particulate emissions to earth, air and water threatening our communities
- Will the ICAC belatedly examine the post political mining careers of suspect politicians as we choke in AGL's neuro-toxins and overcrowd the very limited health resources in Sydney's South West?

Threats to Our Natural Environment - Geology and Hydrology

- Long term geological damage to – drinking water, water aquifers, water tables, creek beds and rivers
- Contamination of South Creek and Narellan Creek feeding the Hawkesbury-Nepean Catchment
- Structural damage to the Sydney Water Supply Channel undermined by at least 6 parallel drilling locations in our area at CU02, CU06, CU10, CU14, CU20 and CU22 – each with 6 wells
- Structural damage to built environments and dangerous land slip in a predominantly clay sub soil
- Expansion and shrinkage of clay and shale sub-structures causing fracturing to gas pipes
- Irreversible damage to native flora and fauna, soil, and vegetation
- Risks in waste management of by-products including neuro-toxin particulates in earth, water and air

Contradictory and Incompatible Land Use Layering

- Allowing legally established and developed residential, commercial, educational and recreational zonings – all funded by our rates and statutory government taxes - to be undermined, compromised and degraded by a toxic and dangerous mining industry

Unpredictable Noise Disturbance - AGL-CSG Consultants noise studies are totally incompetent

- Inadequate credible studies into 24 hour drilling, mining and 'fracing' noise levels impacting on our health.
- Failure to acknowledge long term reflected and radiated sub-surface noise levels on sleeping disturbance patterns, neurological concerns given that the human perception of noise is six times greater at night time

Deeply Flawed Community Consultation - Lacking Honesty, Openness and Transparency

- AGL provided only 2 copies of the Environmental Assessment – one at Camden Council foyer and one at Campbelltown – and withdrew the original Environmental Assessment October of 2010 so that the community could not compare the original proposal with the amended Main Report October of 2012
- Positioning the exhibition period leading into Christmas when families and work force are busy in preparation for the holiday season.
- Failure by AGL to accept that many people do not have access to the internet, and those who have internet access would have great difficulty reading a 3000 page document on a computer screen
- Failure by AGL to provide complimentary CDs of their proposal to residents upon request – a practice of previous proponents of major projects
- Poorly advertised, and consequently poorly attended, information sessions at which AGL specialist consultants could not answer questions – but would make notes
- A poorly designed AGL-CSG website – a potluck table of contents, using out-of-date maps which do not clearly show the level of urban development, no index and illogical page numbering
- Using only small section and out of date maps so that it is impossible to view the enormity of the whole project when previous proponents have provided fold out A3 size maps
- Failure by AGL to show the 2,500 metre radius of each drilling footprint under homes, schools and creeks
- Using an unidentifiable AGL-CSG public relations spokeswoman, unqualified in mine engineering, as the front person quoted in daily papers while keeping faceless "experts" in the next room
- The AGL-CSG COMMUNITY CONSULTATIVE COMMITTEE (CCC) does not adequately represent the broader community and that it does not keep accurate minutes and report back to the broader community

Political Posturing and Decision Making Processes

- Concerns that you, your government departments, including Environment and Health, have not carried out complete, professional, expert and independent analysis of the AGL-CSG proposal
- Concerns that the Premier in the media has already indicated his approval for the AGL-CSG proposal pre-empting the decision making process by the PLANNING ASSESSMENT COMMISSION (PAC) – a 'selected' panel of "experts" to undertake a "merit review" of the project
- It doesn't help when Premier O'Farrell insults us (SMH 7.7.13 page 7 Editorial) by trivialising drilling lines as being the size of a "teacup" when in fact AGL state in **2012 MAIN REPORT at Chapter 4.3** that drilling varies from **178mm to 2000mm** in diameter in the 'fracing' reaming process and the lines are up to 2,500 metres long. There does not seem to be even a token separation between AGL and some politicians.
- It is not up to me, my family, or members of our community to prove that AGL's Coal Seam Gas mining is a serious risk to our local life, health and future. Camden Council, the State Government's statutory authorities, Ministers, Cabinet, Premier and PLANNING ASSESSMENT COMMISSION panel are the ultimate consenting authority, with a "duty of care" to all residents of South Western Sydney. It is your collective responsibility to protect our health, living, learning, working and recreational environments.
- Politicians, AGL and PAC Members do not have an anti-social licence to degrade our family lifestyle, our home, our backyard, our pools, our chook shed, our pigeon loft, our greyhound run, our veggie patch, our soil, our water, our air and the vital future of our communities.

We totally oppose the entire AGL-CSG Camden Expansion Proposal and expect that all consenting authorities do likewise. Could you please reply promptly, confirming that you have received my (family) submission.

Yours Faithfully

Signature(s).....

Full Name(s).....

Address.....



ELAINE JOAN DUNSTON

5 WILKINSON ST. EIDESTREE 2570

OUR DEADLINE IS - FRIDAY 8 FEBRUARY 2013*"write early, write often"**Copy and pass on*

From: "Pat&Barry" <bazpat@bigpond.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 2/8/2013 7:47 am
Subject: CSG submission
Attachments: CSG submission.pdf

Please acknowledge receipt of this submission,

Thank you Pat Durman

63 Katanna Road
Wedderburn
NSW 2560

Department of Planning

6th February 2013

Re: Camden Gas Project Stage 09-0048

I would like to make the following comments in regard to the Coal Seam Gas Northern Expansion in the Campbelltown/Camden area, and thank you for allowing me to comment.

The map supplied is confusing and it appears that mistakes have been made; a new map should be submitted that at least places Airds on the right side of the Georges River.

A new map should explain why there are lines drawn outside the Subsurface Project Area, extending into the Holsworthy Military Reserve and Wedderburn.

If AGL cannot supply a map that shows the correct information, why should the public assume that they will know where they are drilling underground?

If drilling is to occur under the Holsworthy Military Reserve then an application needs to be made to the Commonwealth Government.

In the case of longwall mining if damage occurs to buildings then the owners can apply to the Mining Subsidence Board, there should be a similar body for Coal Seam Gas in place before any drilling is allowed.

Any drilling under or near the Georges River or its tributaries should not be allowed.

The environment appears to have very little protection, and because of shooting being allowed in National Parks, and the possible demise of the Environmental Defenders Office, the public faith in any protection of the environment is at an all time low.

Yours faithfully

Pat Durman (Mrs)