



Health an environmental Impacts of coal seam gas
Ray Dawes to: csg.review
Please respond to ray _dawes

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History: This message has been replied to and forwarded .

To Chief Scientist

In relation to CSG in Gloucester Basin I make following concerns in point form :-

- 1 Complex geology i.e. steeply dipping seams and extensive major faulting as well as jointing relation to folding will make CSG hazardous
- 2 Lack of flood study
- 3 Groundwater modelling by AGL, GRL and Stratford Coal all make different assumptions and consequently have different conclusions which just happen to favour their particular activity
- 4 Modelling by Prof Pells in in disagreement with 3 above
- 5 Modelling by AGL oversimplifies the geology and Dr Evans found 20+ flaws in AGL stage one study
- 6 A whole basin groundwater study is necessary to prevent an extremely negative outcome .

- 7 Cumulative impact of AGL, GRL and Stratford Coal needs to be taken into account
- 8 Particulates need extensive study, not just size and composition but also shape and I cite asbestos as an example
- 9 Adaptive management as cited by extractive industries needs to be removed from the discussion and replaced with possible problems and effective fixes . All possible problems need to be outlined irrespective of their probability of occurring
- 10 Pollution and contamination of groundwater will be a problem . Produced groundwater is salty and increases with salinity in a southerly direction . I am very concerned about the pollution of surface and groundwater that will accumulate over time .
- 11 Emissions of gas from drill holes is of concern to me and needs investigation
- 12 Migration of gas during extraction due to changes in hydrological pressure has not been explained
- 13 Fraccing is a major concern particularly near the faults not to mention steeply dipping strata. Could migration of CSG occur?

And given extensive resources of LNG in offshore basins , is it feasible ,in terns of long term energy strategy, to extract CSG from Gloucester Basin at this time . It is extremely profitable for AGL but not in terms of Australia 's longer term energy security

With regards

Ray Dawes B.Sc
concerned Gloucester Resident