

**APPENDIX E – CONSOLIDATED CONSENT**

## ANNEXURE "A"

### CONDITIONS OF DEVELOPMENT CONSENT

#### SCHEDULE 1

MOD-72-7-2004-i in August 2004 - orange  
MOD-5-1-2005 in February 2005 – pink type  
MOD 42-3-2005 in June 2005 – green type  
MOD 52-4-2006 in May 2006 - dark green type  
MOD 119-10-2006 in October 2006 – blue type with yellow highlight  
MOD 124-10-2006 in November 2006 – purple type  
MOD 11-2-2007 in May 2007 – blue type  
MOD 26-3-2007 in July 2007 – red type  
MOD 9 in April 2008 - dark blue type  
MOD 10 in March 2009 – aqua type  
MOD 11 in September 2009 - brown type  
MOD 12 in November 2010 - yellow and turquoise highlight  
MOD 13 February 2017 – Grey type

**Development Application:** DA No. 282-6-2003-i  
**Applicant:** Sydney Gas Operations Pty Limited  
**Consent Authority:** Minister for Infrastructure and Planning  
**Land:** Refer to **Appendix A**

**Proposed Development:** The Camden Gas Project Stage 2 includes:

- Construction and drilling of 20 wells located on the EMAI Site;
- Operation and production of gas from the existing (drilled) 23 wells and 20 wells to be constructed (a total of 43 wells);
- Construction and operation of the gas gathering system;
- Construction and operation of the gas treatment plant, associated workshop and office facilities; and
- Production of up to 14.5 petajoules per annum from the gas treatment plant.
- Construction, drilling and operation of 1 directional well (GL16) from GL7, and 2 Surface to in-seam wells (GL14 and GL15) from GL10.
- Construction, drilling and operation of 1 Surface to in-seam well (EM38) at EM20, and upgrading (twinning) of the gas gathering line between MP14-GL10, GL10-GL05, GL05-GL07 and RP03-RP08.
- Construction, drilling and operation of 2 Surface to in-seam wells - EM39 (from EM02) and GL17 (from GL05), upgrading (twinning) of the gas gathering line from EM39 to the junction of the gas gathering line and road to the EM03 well, and connection of the new wells to the existing gas gathering system.
- Construction of an access road to the existing Rosalind Park 09 (RP09) gas well and the upgrading (twinning) of a small section of the existing gas gathering line between the existing RP08 gas well and the existing Rosalind Park Gas Plant (RPGP) on the Rosalind Park Property.
- Re-routing a section of the Glenlee-06 gas gathering line.

The location of the Gas Wells, the Gas Gathering System (coloured yellow and blue) and the Gas Treatment Plant as shown in **Figure 1** "Sydney Gas Camden Gas Project Stage II Site Plan" (**Appendix B**).

The location of the crossings of the Gas Gathering System and locations for Part 3A Permits as shown in **Figure 2** "Camden Gas Project Stage 2 – RFI Act 3A Permit Areas" (**Appendix B**).

The location of the proposed access roads and gas gathering lines as shown in **Figure 3** "Sydney Gas Camden Gas Project Stage 2 – Location of Access Roads within the EMAI" (**Appendix B**).

The location of the gas gathering system within the EMAI as shown in **Figure 4** "Sydney Gas Camden Gas Project Stage 2 – Location of Gas Gathering System within the EMAI" (**Appendix B**)  
**The location of the directional well as shown in Figure 5 "Proposed Deviated Wells from GL07" (Appendix B)**

The location of the directional well (GL15) as shown in **Figure 6** "Well Location with Property Description", dated 4/10/06 (**Appendix B**).

The location of the Surface to In-seam well (GL14) as shown in **Figure 7** "Well Location with Property Description" (**Appendix B**)

The locations of the Surface to In-seam well (EM38) and upgraded (twin) gas gathering lines are shown in **Figure 8** "Proposed Modification.3 – Well EM38 and Gathering Line Upgrades" (**Appendix B**)

The location of EM39 and GL17 as shown in **Figure 9** "Overview GL17 and EM39 Modifications (**Appendix B**)

The location of the access road and gas gathering line are shown in **Figure 10** "Location of proposed access road and gas gathering line" (**Appendix B**)

The new route for the Glenlee-06 gas gathering line is shown in **Figure 11** "New route for the Glenlee-06 gas gathering line" (**Appendix B**).

**State Significant Development:**

The proposed development is State Significant development by virtue of a Declaration made by the Minister for Infrastructure and Planning on 13 June 2003 under Section 76A of the *Environmental Planning and Assessment Act 1979*.

**Integrated Development:**

The proposal is classified as integrated development under Section 91 of the *Environmental Planning and Assessment Act 1979*, as it requires additional approvals under the:

- *Protection of the Environment Operations Act 1997*;
- *Rivers and Foreshore Improvement Act 1948*; and
- *Mine Subsidence Compensation Act 1961*

**Designated Development:**

The proposal is classified as designated development, under Section 77A of the *Environmental Planning & Assessment Act 1979*, because it is "petroleum works" and therefore meets the criteria for designated development in Schedule 3 of the *Environmental Planning & Assessment Regulation 2000*.

**BCA Classification:**

Class 1A:	Living Quarters
Class 8:	Demountable Office and Control Room/MCC
Class 8:	Steel Structure Workshop
Class 8:	Compressor Structure
Class 10:	Storage Containers and All Shelter Demountable Building
Class 10A:	Plant Skids – TEG and Meter Skid
Class 10A:	Toilet Blocks

**Note:**

- 1) To find out when this consent becomes effective, see Section 83 of the Act;
- 2) To find out when this consent is liable to lapse, see Section 95 of the Act; and
- 3) To find out about appeal rights, see Section 97 of the Act.

## SCHEDULE 2

### DEFINITIONS

AEPR	Annual Environmental Performance Report
The Applicant	Sydney Gas Operations Pty Ltd
BCA	Building Code of Australia
CCC	Community Consultative Committee
DA	Development Application
Day	Between 7.00am and 6.00pm Monday to Saturday and 8.00am to 6.00pm Sundays and Public Holidays
Department	The Department of Planning & Environment
DPI Water	The Division of Water within the Department of Primary Industries
EIS	Environmental Impact Statement
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	Environment Protection Authority
EMAI	Elizabeth Macarthur Agricultural Institute
Evening	Between 6.00pm and 10.00pm
GTA	General Term of Approval
LAEQ15min	Average noise level, when measured over a 15 minute period
Land	Land means the whole of a lot in a current plan registered at the Land Titles Office at the date of this consent.
Licence	Environment Protection Licence under the <i>Protection of the Environment Operations Act 1997</i>
Minister	Minister for Planning, or delegate
MSB	Mine Subsidence Board
Night	Between 10.00pm and 7.00am Monday to Saturday and 10.00pm and 8.00am Sundays and Public Holidays
PEL	Petroleum Exploration Licence
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Production Lease	Petroleum Production Lease under the <i>Petroleum (Onshore) Act 1991</i>
Protected Land	Land and material that is in or within 40 metres of the top of the bank or shore of "protected waters"
PRP	Pollution Reduction Program
RMS	Roads and Maritime Services
Secretary	Secretary of the Department, or delegate and/or nominee
SIS	Surface to in-seam
Site	Land to which the DA applies

---

## SCHEDULE 3

### ADMINISTRATIVE CONDITIONS

#### Obligation to Minimise Harm to the Environment

1. The Applicant shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the development.

#### Terms of Approval

2. The Applicant shall carry out the development generally in accordance with the:
  - (a) DA submitted to the Department on 20 June 2003;
  - (b) *Camden Gas Project Stage II – Environmental Impact Statement for the Sydney Gas Company* (four volumes), dated 19 June 2003;
  - (c) All other documents listed in Appendix C;
  - (d) Drawings No. 32339 SK010 Issue 17 and SK014 Issue 1 ; and URS Plan LC-0100 Revision G dated 16 June 2004;
  - (e) Modification Application 42-3-2005 and the letter from Sydney Gas Operations Pty Ltd to the Department dated 14 March 2005 titled *Camden Gas Project Stage II – Modification Application*, and the accompanying attachments;
  - (f) The modification application submitted to the Department on 11 April 2006 and the accompanying document "*Camden Gas Project Joint Venture Proposed Multiple Gas Well Modifications*" prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, dated April 2006;
  - (g) The modification application submitted to the Department on 29 September 2006 and the accompanying document "*Camden Gas Project Joint Venture Statement of Environmental Effects Proposed SIS Well Project*" prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, and dated September 2006;
  - (h) The modification application submitted to the Department on 16 October 2006 and the accompanying document "*Camden Gas Project Joint Venture Statement of Environmental Effects Proposed SIS Well Project (GL15)*" prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, and dated October 2006;
  - (i) Modification Application MOD 11-2-2007 and *Statement of Environmental Effects Section 96AA Modification of DA No 282-6-2003-I Relocation of an Existing Internal Road at Rosalind Park Gas Plant (RPGP) off Medhurst Road, Menangle*, dated February 2007;
  - (j) Modification Application MOD 26-3-2007 and "*Camden Gas Project Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects*", dated March 2007;
  - (k) Modification Application 282-6-2003 MOD 9, the *Statement of Environmental Effects* titled "*Camden Gas Project Joint Venture – EM39 and GL17 Modification Project*" dated February 2008, letter from AGL Gas Production (Camden) Pty Limited to the Department, dated 19 March 2008, and letter from Wilkinson Murray Pty Limited to AGL Gas Production (Camden) Pty Limited, dated 31 March 2008;
  - (l) Modification Application 282-6-2003 MOD 10, the *Statement of Environmental Effects* titled, "*Camden Gas Project: Rosalind Park Access Road and Gas Gathering Line Modification*" dated December 2008 and letter from Cubbitch Barta Native Title Claimants Aboriginal Corporation to Biosis Research Pty Ltd, dated 22 October, 2008; and
  - (m) Modification Application 282-6-2003 MOD 11, the letter titled, "*Camden Gas Project – AGL Modification to Gas Gathering Line*" dated September 2009 and letter from Biosis Research Pty Ltd, dated 12 June, 2009;
  - (n) the modification application DA 282-6-2003i MOD 12 and accompanying letter prepared by AGL Energy Limited, dated 31 May 2010;
  - (o) modification application DA282-6-2003-i MOD 13, and accompanying Environmental Assessment prepared by AGL Upstream Investments Pty Limited, dated 18 November 2016; and
  - (p) the conditions of this consent.
3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.
4. The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:
  - (a) Any reports, plans or correspondence that are submitted in accordance with this consent; and
  - (b) The implementation of any actions or measures contained in these reports, plans or correspondence.

## Limits of Approval

5. This approval shall lapse twenty one (21) years from the granting of the production lease.
6. The Applicant shall not exceed the maximum production capacity of 14.5 petajoules per annum, from the gas treatment plant.
- 6A. The Applicant shall not produce gas from GL14 until a Production Lease under the *Petroleum (Onshore) Act 1991* has been obtained for the entirety of the well.

## Special Conditions of Approval

7. The Applicant must in the opinion of the EPA be a fit and proper person to hold a licence under the *Protection of the Environment Operations Act 1997*, having regard to the matters in s83 of that Act.
8. Within one month of consent being issued and in any case before the commencement of any construction works causing the Gas Treatment Plant to become scheduled under the *Protection of the Environment Operations Act 1997*, the Applicant must submit, to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, a written report containing actual dates for submission of reports where specified in Conditions 126, 56, 62, 63, 43, 60, 85, 86, 71 and 61 of Schedule 4.
9. If after five (5) years of the date of this consent any well that is the subject of this consent has not yet been drilled or completed, then the Applicant shall surrender the approval for that well.
10. At the expiration of ten (10) years from the date of this consent, the Applicant shall submit to the Secretary a reserve report covering the petroleum production lease (PPL) area.

The report shall be prepared by an independent petroleum expert in accordance with relevant definitions approved by the Society of Petroleum Engineers and/or the World Petroleum Congress.

In the absence of a proven reserve, the Applicant shall make a further submission to the Secretary justifying why production should continue.

After reviewing this report, the Secretary may direct the Applicant to carry out certain actions (including the closure and rehabilitation of certain wells).

11. The Applicant shall run verticality logs for new gas wells located within coal exploration titles.

Note: The Petroleum Production Lease that may be granted by the DRE will apply to the PEL 2 area, which is a much larger area than that which the development consent applies to.

This consent applies to the land and structures identified in Schedule 1, being the gas wells, gas treatment plant, associated workshop and office facilities and gas gathering system.

## Further Approvals

12. Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 49 wells for gas production) or gas gathering lines.

## Structural Adequacy

13. The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Note:

- a) Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.
- b) Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of development.
- c) The development is located in the South Campbelltown and Wilton Mine Subsidence Districts. Under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Board's approval before constructing or relocating any improvements on the site.

## Public Infrastructure

14. The Applicant shall:
- (a) Repair, or pay the full costs associated with repairing any existing public infrastructure that is damaged by the development;
  - (b) Relocate or pay the full costs associated with relocating any existing public infrastructure that needs to be relocated as part of the development; and
  - (c) Meet the reasonable requirements of Sydney Water and Macarthur Water regarding the construction and operation of the proposed development adjacent to the water mains operated by Sydney Water and Macarthur Water respectively.

Note: The Applicant may be required to apply to Sydney Water for a Section 73 Compliance Certificate under the *Sydney Water Act 1994* and to meet Sydney Water's reasonable requirements.

## Location of Gas Wells and Gas Gathering Systems

15. The Applicant shall provide Camden Council, Campbelltown City Council and Wollondilly Shire Council with the Geographical Positioning System (GPS) co-ordinates and digital survey data for gas well sites and gas gathering systems within their respective Local Government Area, in a format suitable to each of these Councils, within two months of the completion of the gas wells and gas gathering system.
16. The Applicant shall provide Camden Council, Campbelltown City Council and Wollondilly Shire Council with the wellhead configurations of each gas well within two months of the gas well being completed or two months from the date of this consent, whichever is the later.
17. The Applicant shall provide written notification to the Secretary that it has fulfilled the requirements of Conditions 15 and 16, within two weeks of the information being provided to the Councils.

## Compliance

18. The Applicant shall prepare a Project Commitments Register (PCR) within six months of the date of this consent. The Project Commitments Register shall be submitted to the Secretary for approval. The PCR shall include all commitments and initiatives referred to in the documents listed in Condition 2(c) (**Appendix C**) and all other documents and supplementary information provided to the Department from the time of DA lodgement to the date of this consent. The PCR shall include, but not necessarily be limited to:
- (a) All commitments and initiatives (environmental, social, economic or project related) that the Applicant has agreed or suggested to implement for this development;
  - (b) Timeframe for implementation of the commitment or initiative;
  - (c) The responsibility for ensuring that the commitment or initiative is implemented in the manner and timeframe provided by the Applicant; and
  - (d) A reference to the document or correspondence that the commitment or initiative was stated by the Applicant.
19. The Applicant shall prior to the commencement of substantial construction certify in writing to the Secretary that all the relevant conditions applicable to construction have been complied with.
20. The Applicant shall submit for the approval of the Secretary two weeks prior to the commissioning of the development or within such other period that the Secretary may agree, a compliance report detailing compliance with all the relevant conditions that apply prior to the commissioning of the development.

# SCHEDULE 4

## SPECIFIC ENVIRONMENTAL CONDITIONS

### VISUAL AMENITY

#### Visual Performance

1. The Applicant shall implement visual mitigation measures as depicted on the plan "Camden Gas Project Stage 2: Vegetation and Landscape Management Plan" Drawing No LC-0100 Revision G prepared by URS for Sydney Gas dated 16 June 2004 (the "Landscape Design").
2. Prior to the commencement of construction of the workshop, office, plant and associated facilities at Rosalind Park, the Applicant shall submit for the approval of the Secretary, a colour scheme (paint colour specifications) for all proposed buildings, fences and associated structures. Colours selected for the facilities (in particular the "Workshop" and "Offices") shall aim to minimise the visual impact of the facility on surrounding land uses and maximise the ability of the facilities to "blend into" the local landscape.

Note: The Applicant where practicable should aim to use darker paint colours on the facilities (such as a dark grey colour).

Wherever practical, the Applicant shall ensure that ground surfaces and stabilisation materials for the facilities at Rosalind Park utilise material in dark shades of colour (such as blue metal and dark coloured mulch).

3. The Applicant shall implement reasonable measures to screen gas wells GL 4, GL 5 and GL 10 and the interconnecting gas gathering line from the Banksia Garden picnic area within the Mount Annan Botanic Garden. The Applicant shall undertake such measures to the satisfaction of the Secretary.

#### Lighting Performance

4. The Applicant shall take all practicable measures to minimise any off-site lighting impacts from the development.
5. The Applicant shall ensure that all external lighting associated with the development is mounted, screened and directed in such a manner so as to achieve the minimum level of illumination necessary, and in accordance with the *Australian Standard 4282 – 1997 Control of the Obtrusive Effects of Outdoor Lighting*.
6. The Applicant shall ensure that measures to minimise lighting effects from the operation of the proposed development and the operation of the flare (including under emergency conditions) are implemented as recommended in the following reports (except where inconsistent with the Landscape Design or these conditions):
  - (a) Report titled "Camden Gas Plant Stage 2 – Lighting Review with Respect to Obtrusive Effects from Methane Gas Flare" prepared by Bassett Consulting Engineers Pty Ltd for Sydney Gas dated 17 October 2003;
  - (b) Report titled "Camden Gas Plant Stage 2 – Lighting Review with Respect to Obtrusive Effects" prepared by Bassett Consulting Engineers Pty Ltd for Sydney Gas dated 14 October 2003;
  - (c) Plan titled "Lighting Review to Minimise Obtrusive Light to Mount Gilead Homestead – Drawing No. S5397-E001" prepared by Bassett dated October 2003;
  - (d) Plan titled "Camden Gas Plant Phase II proposed Area and Perimeter Lighting Layout-Drawing No. 03-1212-84-301 Revision 2" prepared by Simon Engineering and dated 15 October 2003;
  - (e) Report titled "Lighting Scope Camden Gas Phase II" prepared by Simon Engineering, Document Reference No 03 1212 LS-02 dated 13 October 2003; and
  - (f) Report titled "Sydney Gas Proposal Stage 2 Coal Seam Methane Project Visual Assessment of Lighting and Flare" prepared by URS for Sydney Gas dated 6 November 2003.
7. Prior to the commencement of construction of the Gas Treatment Plant, the Applicant must submit to the Secretary or the certifying authority a revised "area and perimeter lighting layout" and "electrical services lighting review" to replace the two plans of this name in the document referred to in condition 6(b) above, taking into account the revisions to the development plans for the Gas Treatment Plant as approved in this



consent. The lighting design under these revised plans shall be designed to minimise the effect of obtrusive light on the Mount Gilead Homestead from the Gas Treatment Plant.

8. The Applicant must ensure that wherever possible, any scheduled use of the flare occurs during daylight hours.
9. The design of the flare pit must be amended by installing an opaque barrier to a height of 7.5m above the flare tip as depicted on the Landscape Design. The Applicant may remove this barrier with the consent of the owner of Lot 1 DP 807555.
10. The Applicant shall report on the effectiveness of the lighting controls in the AEPR.
11. The Applicant shall record the frequency of the operation of the flare and shall make this information available for inspection by the Secretary on request. The records shall include but not be limited to the following:
  - (a) date and time of each flare event;
  - (b) duration of each flare event;
  - (c) whether the flare operated during daylight or night-time hours;
  - (d) the cause for the operation of the flare;
  - (e) the number of compressor engines that have been commissioned and operating during the period; and
  - (f) comparison of the frequency, night-time frequency, duration and estimated light level of each type of flare event with the flare events predicted in Table 2 of the following report: URS (2003) "Sydney Gas Proposal Stage 2 Coal Seam Methane Project Visual Assessment of Lighting and Flare" prepared by URS for Sydney Gas dated 6 November 2003."

#### **Landscaping design**

12. The site shall be landscaped as shown on the Landscape Design and this landscaping shall be maintained for the life of the development.

#### **Vegetation and Landscape Management Plan**

13. The Applicant shall prepare and implement a Vegetation and Landscape Management Plan for the Gas Treatment Plant site and the gas well sites. The plan shall include, but not necessarily be limited to:
  - (a) reasonable measures to protect mature trees as part of the well drilling, gas gathering system and Treatment Plant Site construction activities;
  - (b) a landscape strategy detailing the design and proposed planting of trees and shrubs to be undertaken;
  - (c) ensuring that tree and shrub species used for landscaping of the site are indigenous to the locality;
  - (d) details of a program to ensure that all landscaped areas are maintained in a tidy, healthy state;
  - (e) measures intended to maximise the screening of infrastructure from views from the Mt Gilead property through planting and other measures;
  - (f) details of the visual appearance of all new buildings, structures and facilities (including paint colours and specifications). New buildings shall be constructed so as to present a neat and orderly appearance and to blend as far as practicable with the surrounding landscape;
  - (g) Details of any necessary irrigation system to ensure that adequate supplies of water are made available to all landscaping on site, the trees between the site and Menangle Creek and the trees located on the southern boundary of the Gas Treatment Plant site;
  - (h) Details of any necessary methods to be employed in the establishment of trees on cut batters in the event that the excavated surface is not conducive to the planting of vegetation of the type displayed in the Landscape Design;
  - (i) provision for assessing and regularly monitoring the health of the trees in the Menangle Creek riparian zone adjacent to the Gas Treatment Plant site. The objective of the monitoring is to determine the health of the trees and to recommend measures (if required) to improve the health of the trees;
  - (j) reasonable measures to ensure that mature trees within the riparian corridor along Menangle Creek are retained and protected;
  - (k) details of proposed screening works including supplementary planting along the border of the site with Menangle Creek;
  - (l) reasonable measures to minimise the impacts of the gas wells on the cultural heritage landscape of the EMAI;
  - (m) details of a monitoring program to assess the effectiveness of all visual impact mitigation measures, particularly the measures used to minimise the visual impacts on the Mount Gilead Homestead; and
  - (n) reporting the results of the visual impact monitoring in the Annual Environmental Performance Report. The monitoring results will specifically identify any remedial measures required.

The Vegetation and Landscape Management Plan must be submitted and approved by the Secretary prior to commencement of construction on the Gas Treatment Plant site.

14. As part of an independent audit required under condition 18, the Vegetation and Landscape Management Plan must make provision for ensuring that landscaping of the Gas Treatment Plant site and surrounds is maintained in an adequate condition by providing details of a monitoring program. Monitoring must be carried out pursuant to the monitoring program every 6 months for the first two years from the commencement of planting and thereafter every 2 years by an independent and suitably qualified and experienced arborist whose appointment has been approved for the purposes of this condition by the Secretary. The monitoring program must include the following features:
- (a) identification of mature trees surrounding the site which afford screening of the Gas Treatment Plant from Mt Gilead Homestead;
  - (b) provision for assessing and regularly monitoring the health of landscaping on the site and the trees in the Menangle Creek riparian zone adjacent to the Gas Treatment Plant site. The objective of the monitoring is to determine the health of the trees and to recommend measures (if required) to improve the health of the trees;
  - (c) Description of the health of each tree identified under condition (a);
  - (d) Recommendation of reasonable measures to ensure that mature trees within the riparian corridor along Menangle Creek are retained and protected, including trees that lie within the transmission line easement to the East of the site;
  - (e) Recommendation of any watering or fertilising that needs to be implemented to maintain the landscaping and surrounding trees;
  - (f) Recommendation of how to manage the landscaping to promote the maximisation of growth to maturity.

The results and recommendations of the monitoring program must be submitted to the Secretary at the conclusion of each stage of monitoring.

15. (a) The existing trees shown on the Landscape Design adjacent to the southern boundary of the Gas Treatment Plant site, must be retained. They must not be lopped or trimmed except on the advice of an independent arborist whose appointment has been approved for the purposes of this condition by the Secretary that the proposed work is reasonably necessary for safety reasons. The trees must be maintained in a healthy condition.
- (b) If any of the trees described in this condition ceases to provide screening of the quarry from the Mount Gilead Homestead, as a result of the Applicant's activities (other than trimming or lopping undertaken on the advice of the arborist), the Applicant must provide alternative screening to the satisfaction of the Secretary.
16. Prior to the commencement of construction on the Gas Treatment Plant site the Applicant must secure the right to implement on land outside the Gas Treatment Plant site for the life of the development any necessary mitigative or screening measures proposed for the Gas Treatment Plant as part of the Vegetation and Landscape Management Plan or as required by this Consent.
17. For the purpose of avoiding possible detrimental impact on vegetation screening of the Gas Treatment Plant from the Mt Gilead Homestead due to any clear felling of trees in the area marked "A" on the Applicant's Plan Map Ref M240212 dated 16 June 2004 ("Applicant's Plan") by the holder of the electricity transmission line easement over Lot 1 DP 807555 ("Holder"), the Applicant shall carry out any reasonable and necessary trimming and lopping of those trees provided the Holder requests the Applicant in writing to carry out this trimming and lopping and undertakes in return to refrain from the clear felling of those trees within 5 years of the date of this Consent.

#### **Independent Audit**

18. The Applicant shall commission and pay the full cost of an Independent Audit of the performance of the mitigation measures implemented to prevent and minimise visual impacts of the proposal including landscaping, preservation of existing trees, and night-lighting effects. The audit must be conducted within 6

months of the commissioning of the proposed development and every 2 years thereafter, unless the Secretary directs otherwise. This audit must:

- (a) Be conducted by an independent landscape expert who is suitably qualified and experienced and whose appointment has been approved by the Secretary;
  - (b) Assess the performance of the visual mitigation measures with specific reference to the effectiveness of mitigation measures in screening the development and lighting from the development from the Mount Gilead Homestead;
  - (c) Review the adequacy of the Vegetation and Landscape Management Plan;
  - (d) Recommend actions or measures to improve the performance of the visual mitigation measures and the adequacy of the Vegetation and Landscape Management Plan (if required); and
  - (e) Be submitted to the Secretary; and
  - (f) Be implemented to the satisfaction of the Secretary.
19. Within 2 months of commissioning this audit the Applicant shall submit a copy of the audit report to the Secretary and provide a detailed response to any of the recommendations in the audit report. A copy of the Independent Audit, and/or the results and recommendations of any monitoring carried out under condition 14, will be provided to the owner of Lot 1 DP 807555 by the Secretary upon request.

#### **Landscape Planting Plan – Rosalind Park Access Road**

- 19A. The Applicant shall prepare and implement a Landscape Planting Plan for the relocated Rosalind Park access road, to the satisfaction of the Secretary. This plan must be submitted to the Secretary for approval prior to the commencement of construction, and include:
- (a) details of the landscaping measures along the road and visual bund;
  - (b) measures to manage and maintain the landscaping; and
  - (c) describe the construction rehabilitation measures.
- 19B. Within 6 months of completion of the landscaping and every 2 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full costs of an Independent Audit of the performance of the mitigation measures. The audit shall:
- (a) be conducted by a suitably qualified, experienced and independent person(s) whose appointment has been approved by the Secretary;
  - (b) assess the performance of the visual mitigation measures with specific reference to the effectiveness of mitigation measures in screening the road from the Mount Gilead Homestead;
  - (c) review the adequacy of the Landscape Planting Plan;
  - (d) recommend actions or measures to improve the performance of the visual mitigation measures and the adequacy of the Landscape Planting Plan (if required); and
  - (e) be submitted and implemented to the satisfaction of to the Secretary.

*Note: The Applicant may include this audit in the Independent Audit required under Schedule 4 Condition 18 of development consent Da-282-6-2003-I, dated 16 June 2004. The due date for a combined audit shall be the earlier of the due dates for the separate audits.*

#### **FLORA AND FAUNA**

##### **Raptor Breeding Zones at EMAI**

20. The Applicant shall ensure that the drilling of gas wells and the construction of the gas gathering system and any related activities do not occur within 100 metres of the Raptor Breeding zones.
21. The Applicant shall only drill and "fracc" wells EM 5, EM 7, EM 8, EM 9, EM 11 and EM12 during the months of February and/or March or such other period as agreed by the Secretary.
22. The Applicant shall ensure that gas gathering lines connecting well sites listed in Condition 21 shall be constructed outside the breeding seasons of raptor species.

**Note:** The above condition provides protection for breeding raptor species on the EMAI, in proximity to the stated wells, through ensuring activities that are likely to generate noise are conducted outside of the breeding season of raptor species.

##### **Flora and Fauna Protection Measures**

23. The Applicant shall implement best practice flora and fauna management.

24. The Applicant shall take all practicable measures to minimise potential flora and fauna impacts of the proposed development.
25. The Applicant shall ensure that trenches constructed during the construction of gas gathering lines are not left open overnight unless otherwise agreed by the Secretary.
26. The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Secretary.
27. The Applicant shall employ a suitably qualified ecologist with specific experience in identifying the Cumberland Plain Snail, during the construction period of the development. The ecologist shall monitor and examine areas for the presence of the threatened Cumberland Plain Snail, during the clearing for the proposed development.
28. The Applicant shall prepare a translocation strategy for the threatened Cumberland Plain Snail which will be submitted for the Secretary's approval prior to construction. The Translocation strategy shall be implemented should any individuals or populations of the Cumberland Plain Snail be identified.

**Threatened Species**

- 28A. The Applicant shall ensure that, during the drilling and construction of EM38 and upgrading of the gas gathering lines, impacts on threatened species are minimised by implementing actions including, but not limited, to the following:
  - (a) The recommendations outlined in Ecosearch Environmental Consultants Pty Ltd's reports titled: "*Flora and Fauna Assessment, AGL –Gas Well and Gathering Line Project Modifications*" (Sections 6 and 7); and "*Flora and Fauna Assessment, Executive Summary for Rosalind Park Gas Field*" (page 9); and
  - (b) Marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.
- 28B. The Applicant shall ensure that, during the drilling and construction of EM39 and GL17 and upgrading of the gas gathering lines, impacts on threatened species are minimised by implementing actions including, but not limited to the following:
  - (a) the recommendations outlined in the flora an fauna assessment carried out by Biosis Research Pty Ltd in Appendix A of the Statement of Environmental Effects titled "*Camden Gas Project Joint Venture – EM39 and GL17 Modification Project*"; and
  - (b) marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.

**NOISE**

**Noise Impact Assessment Criteria**

29. The Applicant shall ensure that noise from the normal operation of the premises, excluding flaring events, must not exceed the noise limits in the table below:

Receiver Location	Day	Evening	Night	Flaring (anytime)
	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>A1</sub> (1minute)
R1 Medhurst Street Gilead	35	35	35	45
R7 Mt. Gilead Gilead	37	36	36	45

- 29A. Noise from the operation of EM39 and GL17 shall not exceed the noise limits in the table below:

Receiver Location	Noise Criteria	Day	Evening	Night
		dBA L <sub>Aeq</sub>	dBA L <sub>Aeq</sub>	dBA L <sub>Aeq</sub>
All residential receivers except R22 and R26	Project-Specific	40	40	38
R22 and R26	Project-Specific	43	42	37

30. For the purposes of condition 29, **29A** and 31:
- Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public holidays;
  - Evening is defined as the period 6pm to 10pm;
  - Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays; and
  - The receiver locations R1 and R7 are as shown in Figure 5.1 of the Environmental Noise and Vibration Study by Environmental Resources Management Australia Pty Ltd dated June 2003 which accompanied the Environmental Impact Statement for the project.
31. Noise from flaring events, must not exceed the noise limits in the table below:

Location	Duration of each Event	Expected Type Of Event (2)	Daytime	Evening	Night
			L <sub>Aeq,15min</sub>	L <sub>Aeq,15min</sub>	L <sub>Aeq,15min</sub>
R1 Medhurst Street	> 2.5 hours	Spill Valve	35	35	35
	15 min – 60 min	Compressor Blowdown (ESD)	40	40	35
	6 min – 15 min	Compressor Blowdown (shutdown and unload)	42	42	37
	> 2.5 hours	Spill Valve	37	36	36
R7 Mt. Gilead	15 min – 60 min	Compressor Blowdown (ESD)	42	41	40 (1)
	6 min – 15 min	Compressor Blowdown (shutdown and unload)	44	43	37

- Where ESD flare events exceed a frequency of occurrence of 1 per 21 days or duration higher than 15 minutes per event to a reduced flow rate of less than 0.5mmscf/d for each event, a lower limit of 36dB(A) Leq 15 minute applies at night.
- Definition: A flaring event is taken to be any gas flow to the flare greater than that which is necessary to maintain the pilot flame.

32. Noise from the premises is to be measured at the most affected point on or within the residential boundary or at the most affected point within 30m of the dwelling (rural situations) where the dwelling is more than 30m from the boundary to determine compliance with the L<sub>Aeq(15 minute)</sub> and L<sub>Aeq(period)</sub> noise limits in Conditions 29, **29A** and 31.

Where it can be demonstrated that direct measurement of noise from the premises is impractical, the EPA may accept alternative means of determining compliance. See Chapter 11 of the NSW Industrial Noise Policy.

The modification factors presented in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.

33. The noise emission limits identified in Conditions 29, **29A** and 31 apply under meteorological conditions of:
- Wind speed up to 3m/s at 10 metres above ground level; or
  - Temperature inversion conditions of up to 3°C/100m and wind speed up to 2m/s at 10 metres above the ground.

#### **Noise – Construction and Well Maintenance**

34. The Applicant shall prepare and implement a Construction and Well Maintenance Noise Management Protocol to be used for the duration of the project. The Protocol must include, but is not necessarily limited to:
- noise compliance standards;
  - community consultation;
  - advance notice to affected members of the community for planned well maintenance activities;
  - complaints handling monitoring/system;
  - site contact person to follow up complaints;
  - mitigation measures;
  - the design/orientation of the proposed mitigation methods demonstrating best practice;
  - construction times;

- (i) contingency measures where noise complaints are received; and
- (j) monitoring methods and program.

34A. Noise from the drilling and construction of GL14 and GL15 shall not exceed the sound pressure level (noise) limits presented in the table below:

Receiver Location	Night Time Noise Limit dB(A) L <sub>Aeq</sub>
Glenlee House	35
Menangle Park	35

34B. Noise from the drilling and construction of EM38 shall not exceed the sound pressure level (noise) limits in the table below:

Receiver Location	Weekday (7.00am-6.00pm) Saturday (7.00am-1.00pm)	Saturday (1.00pm-6.00pm) Sunday (7.00am-6.00pm)	Evening (6.00pm-10.00pm)	Night (10.00pm-7.00am)
EM38 – nearest residential receiver	54	39	39	35

34C. Noise from the drilling and construction of EM39 and GL17 shall not exceed the sound pressure level (noise) limits in the table below:

Receiver Location	Weekday (7.00am-6.00pm) Saturday (7.00am-1.00pm)	Saturday (1.00pm-6.00pm) Sunday (7.00am-6.00pm)	Evening (6.00pm-10.00pm)	Night (10.00pm-7.00am)
EM39 – R3	40	40	40	38
GL17 – R3	40	40	40	38

**Noise – Drilling Impacts**

35. The Applicant shall implement management practices as necessary to minimise the potential noise impacts from drilling work at gas wells located on EMAI. These management practices are to include, but are not limited to:
- (a) identifying all potentially affected noise sensitive receivers (including residences of EMAI staff) that may be affected by drilling work at these wells;
  - (b) predicting potential noise levels from the proposed well drilling methods where appropriate;
  - (c) identifying and implementing all reasonable and feasible noise mitigation measures to reduce any drilling noise impacts;
  - (d) documenting and implementing any specific work practices the Applicant will employ to limit noise; conducting noise monitoring where appropriate; and
  - (e) appropriately informing affected residences and other relevant parties at least two weeks in advance of any drilling work at the gas wells and updating the information as required.

**Hours of Operation**

36. Planned maintenance activities at any of the wells must only be conducted between:
- 7am and 6pm on weekdays; and
  - 8am and 1pm on Saturdays (excluding Public Holidays).

This condition does not apply to the delivery of material outside the hours of operation permitted by the EPA's licence, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification is to be provided to the EPA and affected residents as soon as possible, or within a reasonable period in the case of emergency.

**Construction Hours**

36A. Except for the drilling (including well casing and grouting) of SIS wells, all construction work shall be conducted between 7.00am and 6.00pm Monday to Friday and between 8.00am and 1.00pm Saturdays and at no time on Sundays and Public Holidays, unless inaudible at any residential receiver.

*Note: Inaudible means that the construction activity cannot be heard by the human ear at the nearest affected residential receiver.*

### **Flare – Measures to Reduce Noise**

37. The Applicant must implement the following noise mitigation options to prevent noise impacts from flare operation:
- Noise mitigation options 1 through to 9 (exclusive of option 8) must be implemented to prevent undue noise impacts at Receiver Location R7 (Mount Gilead residence) as referred to in Table B.1 titled "Flare Mitigation Options – Mt. Gilead (R7)" in the Letter Report titled 'Stage 2 Coal Bed Methane Project – Response to the EPA's Request for Flare Noise Details' from Environmental Resources Management Australia to Sydney Gas Ltd dated 22 October 2003.
  - Measures identified in the report "Amendment to Statement of Evidence – Compressor Blow Down Systems" by Gary Scott dated 11 June 2004.

### **Operational Noise Management Plan**

38. The Applicant shall prepare and implement a Noise Management Plan for the whole site. The Plan shall be submitted to the Secretary for approval within six months of the date of this consent. The Plan shall include, but not necessarily be limited to:
- (a) identification of the potential sources of noise during drilling and operation;
  - (b) the noise criteria for these activities;
  - (c) details of what actions and measures would be implemented to ensure that these operations would comply with the relevant noise criteria;
  - (d) describe how the effectiveness of these actions and measures would be monitored during the life of the development, clearly indicating who would conduct the monitoring, how often this monitoring would be conducted, how the results of this monitoring would be recorded and reported to the Secretary, and if any non-compliance is detected; and
  - (e) describe what procedures would be followed to ensure compliance.

### **Operating Conditions**

39. The Applicant shall undertake the development in a way that minimises the noise generated by the development.

### **Monitoring**

40. The Applicant must submit a noise compliance report to the EPA and the Department within one month of commissioning of the Gas Treatment Plant and on an annual basis with the Annual Return required by the EPA's licence to assess the project's compliance with the noise limits in Conditions 29 and 31. The noise monitoring must be conducted in accordance with Condition 42.
41. Following the first 12 months of continuous noise monitoring, during the life of the Development or as otherwise agreed by the Secretary, the Applicant shall undertake quarterly attended monitoring at the Mt Gilead Homestead to the satisfaction of the Secretary, in accordance with the NSW Industrial Noise Policy and AS 1055: "Acoustics – Description and Measurement of Environmental Noise".

42. The Applicant shall, by 31 January 2011, submit for the Secretary's approval an integrated Noise Management Plan for Stage 1 and Stage 2 of the Camden Gas Project, which has been prepared in consultation with EPA. Following approval, the plan must be implemented to the satisfaction of the Secretary.

#### **This Plan must:**

- (a) fully reflect the requirements of conditions of this consent and all other development consents and project approvals for Stage 1 and Stage 2 of the Camden Gas Project which apply to the management and monitoring of noise emissions; and
- (b) include a detailed noise monitoring protocol for evaluating compliance with the limits in conditions 29 and 31, which includes consideration of monitoring under meteorological conditions as required by condition 33 and recording of meteorological conditions during monitoring (including wind speed, wind direction and data suitable for quantifying the presence or otherwise of temperature inversions).

### **Noise Monitoring Report - Flare**

43. The Applicant must submit to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124 within seven months of commissioning of the Gas Treatment Plant, a report on noise from operation of the flare in the first 6 months of operation of the plant. The report must assess the compliance of noise levels during the

range of flaring incidents experienced since commissioning, with the noise limits provided in Conditions 29 and 31. The noise monitoring must be undertaken in accordance with the Noise Monitoring Program in condition 42. Where during the first six month period all flare types identified in Condition 31 have not occurred, noise measurements shall be carried out of a simulation of the remaining events by applying the appropriate flow rates in order to assess compliance.

The report must contain the following information:

- A listing of each incident when the flare operated including the duration, gas discharge rate and cause of the incident;
- The temperature and volume data for each flare event, as required by Condition 59;
- The results of noise measurements for flare operation for each flare type event, as required by Condition 31,
- The results of noise measurements for flare operation for each flare event for receivers at location R7; and
- An assessment of compliance with noise limits provided in Condition 31. The noise monitoring must be undertaken in accordance with Condition 42.
- Where noise levels do not comply with Condition 31, noise mitigation measures to ensure compliance.

Modification to the control system to reduce gas flow at the flare is considered a practical noise mitigation measure.

### **Redrilling and Refracting Management Plan**

**Note:** For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.

44. The Applicant shall obtain the prior approval of the Secretary for the redrilling and/or additional fracing of a gas well.
45. The Applicant shall prepare a Redrilling and Refracting Management Plan in consultation with the DRE for the redrilling and/or refracting of an existing well. The Plan shall be submitted to the Secretary no later than one month prior to the commencement of the work or within such period as agreed by the Secretary. The Plan shall include, but not necessarily be limited to:
  - (a) a description of all the activities to be undertaken on the well site during the redrilling and/or refracting work;
  - (b) details of how the environmental performance of the work will be monitored and what actions will be taken to address identified adverse environmental impacts;
  - (c) reference to the relevant parts of the Environmental Management Plan required under conditions 1 and 2 (Schedule 5) of this consent;
  - (d) compliance with all the relevant environmental performance requirements of this consent; and
  - (e) arrangements for complaints handling procedures during the redrilling/refracting work.

The Applicant shall give written notification of the proposed redrilling/refracting work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.

### **VIBRATION**

#### **Condition Report**

46. The Applicant shall prepare a Condition Report for all residences or structures (including structures on EMAI) within 25 metres of a wellhead.

The Applicant shall undertake an inspection of the residence and/or structure prior to work commencing, and a follow up inspection within one month of the completion of the work. The Applicant shall take immediate action for repair of any damage to the residence or structure as a result of the work and to avoid any further damage. A copy of the Condition Report shall be submitted to the Secretary and the DRE after completion of the work.



## AIR QUALITY

### Air Emission Criteria

47. The Applicant shall ensure that air pollutant emissions from the development do not exceed the following criteria at any privately owned residence.

Pollutant	Averaging Period	Criterion
Nitrogen Dioxide	1 Hour	246 µg/m <sup>3</sup>
Nitrogen Dioxide	Annual	62 µg/m <sup>3</sup>
Sulphur Dioxide	1 Hour	570 µg/m <sup>3</sup>
Sulphur Dioxide	Annual	60 µg/m <sup>3</sup>
Sulphuric acid mist	3 minute	33 µg/m <sup>3</sup>
Methyl mercaptan	3 minute	0.84 µg/m <sup>3</sup>

48. Deleted.

49. Deleted.

### Combustion Parameters

50. For each monitoring/discharge point or utilisation area specified in the table below (by point number), the Applicant shall ensure that the parameter is equal to or greater than the lower limits specified for that parameter in the table.

#### POINT 7

Parameter	Units of measure	Lower limit	Averaging period
Residence time	S	*TBD	Instantaneous
Temperature	°C	*TBD	Instantaneous

Note:

\*TBD = To be determined

Note: The limits for residence time and temperature for the main flare will be determined after the Applicant has submitted the report specified in Condition 126 based upon flare design of 98% destruction efficiency for VOCs plus methane and a NOx emission rate as determined in the report specified in Condition 126.

### Operating Conditions

51. Deleted.

52. The Applicant shall take all practicable measures to ensure that all vehicles entering or leaving a site, carrying a load that may generate dust, are covered at all times, except during loading and unloading. Any such vehicles shall be covered or enclosed in a manner that will minimise emissions of dust from the vehicle at all times.

53. The Applicant shall take all practicable measures to minimise the generation of wind blown dust from soil stockpiles.

### Monitoring Locations

54. Deleted.

### Testing Method – Concentration Limits

55. Deleted.

### **Manufacturers Design Specifications**

56. At least 1 month prior to the commissioning of the Gas Treatment Plant, the Applicant shall submit to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, a report containing Manufacturers Design Specifications for air emissions from each of the following:
- compressor engine;
  - TEG Fire tube; and
  - Reboiler still column.

The report must compare the Design Specifications with the limits specified in Condition 48 and 50 to demonstrate that compliance can be achieved.

Note: The objective of this condition is to verify that the equipment installed is designed to comply with the air emissions limits specified in Condition 48.

### **Monitoring**

57. Within 6 months of the date of this consent, the Applicant shall submit a detailed Air Quality Monitoring Program for the development to the Secretary, which has been prepared in consultation with the EPA and includes a detailed air quality monitoring protocol for evaluating compliance of the development with the Air Quality Pollutants in Condition 47. The Applicant shall prepare the Air Quality Monitoring Program in accordance with the NSW EPA Guideline "Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales" 20 July 2001 or its latest version.
58. Deleted.
59. Deleted

### **Installation of Air Monitoring Points Report**

60. The Applicant must submit to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, one month prior to the completion of construction of the Gas Treatment Plant, a written report containing plans showing the locations of air monitoring points for discharges from:
- (a) the compressor engines;
  - (b) TEG Fire Tube;
  - (c) Reboiler Still Column; and
  - (d) Carbon scrubber vent stack.

The report must contain the opinion of a qualified air emissions monitoring consultant advising whether the monitoring points comply with TM-1.

### **Monitoring Program for Air Based Assessable Pollutants**

61. The Applicant must submit to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, one month prior to the completion of construction of the Gas Treatment Plant, a written report containing a program for monitoring of assessable pollutants from the start gas vents.

### **Requirement to Monitor Concentrations of Pollutants Discharged**

#### **Post Commissioning Air Emissions Report**

62. The Applicant must submit to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, within six months of the commissioning of the Gas Treatment Plant, a written report detailing the results of post commissioning source air emissions sampling and analysis undertaken in accordance with the requirements specified in Condition 58 and Condition 59. The report must assess compliance with the limit conditions specified in Condition 48 and Condition 50. The report must also include an assessment of flare operations and report on the results of continuous temperature monitoring and flaring incidents.

Note: The objective of this condition is to demonstrate that the actual emissions are consistent with the design and the air emission limits specified in Condition 48.

### **Quarterly Reporting of Air Emissions**

63. The Applicant must submit the results of quarterly air emissions monitoring as required by Condition 58 on a quarterly basis for the first 12 months of the operation of the Gas Treatment Plant to the EPA's Manager Sydney Industry at PO Box 668 Parramatta NSW 2124. The results must be received by the EPA within one month of the date on which the sampling was undertaken for that quarter.

### **Odour**

64. The Applicant must not cause or permit the emission of offensive odours from the premises, as defined under Section 129 of the *Protection of the Environment Operations Act 1997*.
65. The Applicant must not cause the emission of detectable mercaptan odour from the premises.

Note: Should odour emissions become an issue, the EPA will consider requiring investigation and implementation of further odour control measures.

### **SURFACE WATER MANAGEMENT**

#### **Pollution of Waters**

66. Except as may be expressly provided for by a licence under the *Protection of the Environment Operations Act 1997* in relation to the development, the Applicant shall comply with section 120 of the *Protection of the Environment Operations Act 1997* in carrying out the development.

#### **Management of Waste Water**

Note: Section 120 of the *Protection of the Environment Operations Act 1997* applies to the disposal of waste water. This section refers to the pollution of waters.

#### **Operating Conditions**

67. The Applicant shall undertake the development in a way that minimises the potential surface water impacts of the development.

#### **Monitoring Locations**

68. Deleted.

#### **Monitoring of Effluent Parameters**

69. Deleted.

70. The Applicant must install a measurement device in the Evaporation Pond at the Gas Treatment Plant Site for recording the depth of effluent in the storage for the life of the Evaporation Pond.

#### **Monitoring Program for Water Based Assessable Pollutants**

71. The Applicant must at least one month prior to the completion of construction of the Gas Treatment Plant, submit to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2128, a written report containing a program for monitoring assessable pollutants contained within the following waste streams:
- (a) oily water wastes proposed to be transported to the waste management facilities at Unanderra or Camellia or any other facility which can legally receive such wastes; and
  - (b) sewage waste proposed to be transported to the Bargo Ponds or any other facility which can legally receive such wastes.

### Testing Methods – Concentration Limits

72. Deleted.

### Gas Gathering System - Stream Crossings

Note: The *Rivers and Foreshore Improvement Act 1948* applies to the proposed development and therefore any excavation, removal of material from the bank, shore or bed of any stream, estuary or lake, or land within 40 metres from the top of the bank will require a Part 3A permit.

73. The Applicant shall ensure that stream crossings B and F, as shown on the plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (**Figure 2, Appendix B**) are under-bored. The gas pipe is to be at least 2 metres below the bed of the watercourses. The bed and banks of the watercourses are not to be disturbed.
74. The Applicant is permitted to trench stream crossings A, C, D, E, J, K, L, M, N, O, X, Y, Z, as shown on plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (**Figure 2, Appendix B**). The Applicant shall prepare and implement a representative trenched crossing design. The design shall be prepared and implemented by a person(s) with relevant knowledge, qualifications and experience, in consultation with the Secretary. The Applicant shall submit the plan for approval by the Department **prior to the issue of the Part 3A Permit**. The final crossing design is to be presented in plan view and cross section. The cross section is to be at right angles to the direction of flow, is to extend for a **minimum** distance of 10 metres from the top of both banks and is to include the location of all structures associated with the proposed crossing.
75. The Applicant shall ensure that stream crossing I as shown on plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (**Figure 2, Appendix B**) is strapped to the Menangle Bridge.
76. The Applicant shall ensure that stream crossing H as shown on plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (**Figure 2, Appendix B**), is either strapped to the existing road crossing, strapped to an upgraded road crossing, under-bored or consist of a pipe bridge. Should a pipe bridge be proposed, the Applicant shall prepare and implement a design of the crossing which shall be prepared and implemented by a person(s) with relevant knowledge, qualifications and experience, in consultation with the DPI Water. The Applicant shall submit the plan for approval by the Secretary **prior to the issue of the Part 3A Permit**. The final crossing design is to be presented in plan view and cross section. The cross section is to be at right angles to the direction of flow, is to extend for a **minimum** distance of 20 metres from the top of both banks and is to include the location of all structures associated with the proposed crossing.

Note: A Part 3A Permit may be required for a road crossing upgrade.

77. The Applicant shall advise the Secretary of the proposed stream crossing methods located on EMAI, which are to be assessed and approved by the DPI Water **prior to the issue of the Part 3A Permit**.
78. The Applicant shall ensure that works within 20 m of watercourses are to be undertaken during dry weather conditions.
79. The Applicant shall ensure that the disturbance to the bed and banks of all watercourses are kept at an absolute minimum during the construction procedure and reinstatement of the site.

### Management of Site Water and Sediment Runoff

80. The Applicant shall implement all practicable measures to minimise soil erosion and the discharge of sediments and water pollutants from the site.
81. The Applicant shall ensure that the amount of dirty water and sediment from the site entering protected waters, or that is exposed to the flow of protected waters, or that is likely to detrimentally affect water quality, riparian vegetation or habitat or the environment is minimised in a manner acceptable to the Secretary.
82. The Applicant shall implement all relevant site drainage and sediment and erosion control works and measures and any other pollution controls as required by these conditions, prior to the commencement of any other works at the site.

83. The Applicant shall document in detail the decommissioning of all sediment and erosion controls and any other water diversion structures to the satisfaction of the Secretary. The Applicant shall ensure that the decommissioning meets the requirements of the most recent version of the NSW Department of Housing's publication "*Managing Urban Stormwater: Soils and Construction*" (3<sup>rd</sup> Edition 1998).

#### **Soil and Water Management Plan**

84. The Applicant shall prepare and implement a Soil and Water Management Plan (SWMP) for the development. A person, with professional qualifications, knowledge and experience to industry standards, must prepare the SWMP. The Applicant shall seek the Secretary's prior approval of the person to prepare the Plan. The SWMP shall be prepared to the satisfaction of the Secretary **prior to the issue of the Part 3A permit**. This plan shall include, but not necessarily be limited to:
- (a) all works on protected land and in protected waters, and staging and maintenance requirements;
  - (b) the measures to be implemented to minimise the potential for soil erosion and the discharge of sediment and other pollutants to lands and/or waters during drilling and construction activities;
  - (c) the measures to be implemented to mitigate the impacts of stormwater run-off from and within the site following the completion of drilling and construction activities;
  - (d) demonstrate that erosion and sedimentation control measures will conform with, or exceed, the relevant requirements and guidelines contained in the Department of Housing's publication "*Managing Urban Stormwater: Soils and Construction*" (3<sup>rd</sup> Edition 1998) or its latest version;
  - (e) consistency with the stormwater management plan for the catchment, should one exist, or with the EPA's *Managing Urban Stormwater: Council Handbook* should a stormwater management plan for the catchment not exist;
  - (f) any EPA licence requirements;
  - (g) measures to rehabilitate erosion-affected areas and areas the subject of excavation, including the planting of local native tree, shrub and/or cover crop species;
  - (h) measures to maintain the soil quality, soil integrity and soil structure of land on the EMAI during the construction and operation of the proposal;
  - (i) implement a program of regular testing of waste water quality for compounds, nutrients and metals, as outlined in the EIS;
  - (j) provide details of an appropriate soil sampling and monitoring program to ensure that areas used for waste water application do not lead to an unacceptable build-up of salts within the soil profile;
  - (k) management procedures for all surface and groundwater collection and storage structures on the site, including a maintenance program for associated infrastructure (eg. pipes, pumps, dam walls, etc.) and a program for desilting of those structures, where relevant;
  - (l) details of the well maintenance procedures to ensure the integrity of the well isolation components to prevent the cross contamination of groundwater aquifers; and
  - (m) ensuring that saline groundwater which would exceed the ANZECC guidelines for the protection of aquatic ecosystems and irrigation application purposes is contained in lined holding evaporation ponds and dilutes with fresh water prior to any application of the water to the land surface.

#### **Soil and Water Management Plan – Rosalind Park Access Road**

- 84A The Applicant shall prepare and implement a Soil and Water Management Plan for the relocated Rosalind Park access road, to the satisfaction of the Secretary. This plan must be submitted to the Secretary for approval prior to the commencement of construction, and:
- (a) be consistent with the requirements in *Managing Urban Stormwater: Soils and Construction, Volume 1, 4<sup>th</sup> Edition, 2004* (Landcom);
  - (b) identify activities that could cause soil erosion and generate sediment;
  - (c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;
  - (d) describe the location, function, and capacity of erosion and sediment control structures; and
  - (e) describe what measures would be implemented to maintain (and if necessary, decommission) the structures over time.

#### **Piping and Filling of Watercourse**

- 84B The Applicant shall obtain a Controlled Activity Approval under the *Water Management Act 2000* from DPI Water prior to work commencing on the piping and partial filling of the watercourse near GL05. The Applicant shall fully rehabilitate the watercourse after completion of the construction of GL17 to the satisfaction of DPI Water and the Secretary.

#### **Evaporation Pond Liner Integrity Evaluation Program**

85. The Applicant must submit at least 1 month prior to completion of construction of the Treatment Plant, to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, a written report containing a program for

future evaluation of the integrity testing of the liner in the evaporation pond. The report must contain details of an initial evaluation of the liner prior to use and then an on-going program for review of the integrity of the liner.

86. Within one month of the report above being provided to the licensee, the licensee must submit, to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, a copy of each written report containing the results of an evaluation of the integrity testing of the liner in the evaporation pond as specified in the report submitted to the EPA as required by Condition 85.

## INDIGENOUS HERITAGE

### Protection of Indigenous Heritage

87. Prior to the commencement of site preparation works for the gas wells, gas gathering system and the Gas Treatment Plant Site, the Applicant shall clearly indicate the locations of known aboriginal relics on the site, and ensure that all employees and contractors are aware of these locations, to prevent the known relics being impacted upon during site preparation and construction.
88. The Applicant shall provide a report of the Indigenous Heritage Monitoring undertaken for the Stage II project to EPA and the Secretary within two months of the Heritage Monitoring being completed.

Note: Under Section 86 of the National Parks and Wildlife Act 1974, it is an offence to disturb or excavate any land with the purpose of discovering an Aboriginal object without first obtaining a Section 87 Permit.

### Aboriginal Heritage – EM38

- 88A. The Applicant shall ensure that development of EM38 and upgrade of the gas gathering lines are undertaken in accordance with the recommendations in the reports titled "Aboriginal Cultural Heritage Survey and Assessment Report – Camden Gas Joint Venture Project – Proposed Gas Well Location and Gas Gathering System Modifications, Camden, NSW" dated February 2007, and "Aboriginal Heritage Assessment – Sugarloaf Twin Gathering Line, Rosalind Park" dated 8 September 2006.

### Aboriginal Heritage – EM39 and GL17

- 88B. The Applicant shall ensure that development of EM39 and GL17 and upgrade of the gas gathering lines are undertaken in accordance with the recommendations outlined in the cultural heritage assessment carried out by Biosis Research Pty Ltd in Appendix B of the Statement of Environmental Effects titled "Camden Gas Project Joint Venture – EM39 and GL17 Modification Project".

## NON-INDIGENOUS HERITAGE

### Protection of the Heritage Landscape of EMAI

89. The Applicant shall implement all mitigatory measures listed in Sections 7.1, 7.2 and 7.3 of the report titled "Statement of Heritage Impact for Land within the Elizabeth Macarthur Agricultural Institute NSW Agriculture, Menangle" by Geoffrey Britton dated September 2003.
90. The Applicant shall ensure roadside plantings for sites EM 16, EM 18, EM 19 and EM 20 are strengthened using the species outline provided in the report titled "Statement of Heritage Impact for Land within the Elizabeth Macarthur Agricultural Institute NSW Agriculture, Menangle" by Geoffrey Britton dated September 2003.

Note: a relic is defined under the Heritage Act as any deposit, object or material evidence:

- (a) which relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and  
(b) which is more than 50 years old.

- 90A. The Applicant shall ensure that, if any historical archaeological relics within the meaning of the *Heritage Act 1977* are disturbed, the Heritage Council of NSW shall be notified in accordance with section 146 of the *Heritage Act 1977*.

## SAFETY AND RISK MANAGEMENT

## **Risk Assessment**

### **Pre-Construction Studies**

91. The Applicant shall prepare and submit for the approval of the Secretary at least one month prior to the commencement of construction of the development (except for construction of those preliminary works that are outside the scope of the hazard studies), or within such further period as the Secretary may agree, the studies set out under subsections (a) to (c) (the pre-construction studies). Construction, other than of preliminary works that do not adversely affect facility safety, shall not commence until approval has been given by the Secretary and, with respect to the fire safety study, approval has also been given by the Commissioner of the NSW Fire Brigades.

(a) **Fire Safety Study**

A fire safety study for the gas treatment plant of the proposed development. This study shall cover relevant aspects of the Department's Hazardous Industry Planning Advisory Paper No. 2, "Fire Safety Study Guidelines". The study shall also be submitted for approval, to the NSW Fire Brigade.

(b) **Hazard and Operability Study**

Updated Hazard and Operability (HAZOP) Studies for the development, chaired by an independent qualified person approved by the Secretary prior to the commencement of the study. The studies shall cover any significant changes to the gas treatment plant or gas wells, since the HAZOPs carried out by Kvaerner E & C (Australia) Pty Limited (report dated 15 November 2002) and Worley Pty Ltd (report dated 13 March 2003). The updated HAZOPs shall be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 8, "HAZOP Guidelines". The reports shall also cover the implementation status of all recommendations arising out of the original studies.

(c) **Final Hazard Analysis**

A final hazard analysis of the development, focusing on design changes since preparation of the preliminary hazard analysis, which significantly affect the risk results. The analysis should be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 6, "Guidelines for Hazard Analysis".

### **Pre-commissioning Studies**

92. The Applicant shall develop and submit for the approval of the Secretary, at least one month prior to the commencement of the commissioning of the development, or within such further period as the Secretary may agree, the plans and systems set out under subsections (a) and (b) (the pre-commissioning studies). Commissioning shall not commence until approval has been given by the Secretary. The Applicant shall implement the plans and systems set out under subsections (a) and (b) (the pre-commissioning studies).

(a) **Emergency Plan**

A comprehensive emergency plan and detailed emergency procedures for the development, including the gas wells and gas treatment plant. This plan shall include detailed procedures for the safety of all people outside of the development who may be at risk from the development. The plan shall be in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 1, "Industry Emergency Planning Guidelines".

(b) **Safety Management System**

A document setting out a comprehensive safety management system, covering all operations on the gas wells, gathering system and gas treatment plant. The document shall clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures. Records shall be kept on-site and shall be available for inspection by the Secretary upon request. The Safety Management System shall be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, "Safety Management".

### **Compliance Report**

93. The Applicant shall submit to the Secretary one month prior to the commissioning of the plant, or within such period approved by the Secretary, a compliance report detailing compliance with Conditions 91 and 92, including:

- (a) dates of study submission, approval, commencement of construction and commissioning;
- (b) actions taken or proposed, to implement recommendations made in the studies; and
- (c) responses to any requirement imposed by the Secretary.

## Incident Report

94. The Applicant is required within 24 hours of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment, to supply a report to the Department outlining the basic facts. A further detailed report shall be prepared and submitted following investigations of the causes and identification of necessary additional preventive measures. That report must be submitted to the Secretary no later than 14 days after the incident or potential incident.

The Applicant shall maintain a register of accidents, incidents and potential incidents. The register shall be made available for inspection at any time by the independent hazard auditor and the Secretary.

## Hazard Audit

95. Twelve months after the commencement of operations of the proposed development or within such further period as the Secretary may agree, the Applicant shall carry out a comprehensive hazard audit of the proposed development and within one month of the audit submit a report to the Secretary. The audit shall be carried out at the Applicant's expense by a duly qualified independent person or team approved by the Secretary prior to commencement of the audit. Further audits shall be carried out every three years or as determined by the Secretary and a report of each audit shall within a month of the audit be submitted to the Secretary. Hazard audits shall be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines".

The audit shall include a review of the safety management system and a review of all entries made in the incident register since the previous audit.

**Note:** The Applicant must comply with the requirements of the most recent version of the "Schedule of Onshore Exploration and production Safety Requirements" published by the DRE in August 1992 where equipment and/or pipeline are on a Production Lease.

## Crime Risk Performance

96. The Applicant is required to implement measures to minimise the risk of crime from the proposed development. The Applicant shall implement the following measures prior to the operation of the proposed development.

### Gas Treatment Plant

The Applicant is required to:

- a) ensure the Plant is closed to community access;
- b) fully enclose the Plant with a 3-metre metal framed chain mesh fence with a 3-strand barbed wire head;
- c) ensure the Plant is gated and manned 24 hours per day;
- d) keep vehicular and pedestrian gates closed at all times (when not in immediate use);
- e) use self-closing and self-locking pedestrian gates;
- f) use gate locking mechanisms that facilitate emergency egress; and
- g) ensure plant staff are adequately trained in undertaking security functions.

### Gas Wellhead Sites

The Applicant is required to:

- a) install fixed (permanent) perimeter fencing and gates around each well head. The fencing and gates should be 3 metres high (all inclusive) metal framed and topped with a 3-strand barbed wire head; and
- b) keep gates securely hinged and permanently locked,

unless otherwise agreed by NSW Police.

## Dangerous Goods

97. The Applicant shall ensure that the storage, handling, and transport of:
- (a) Dangerous goods is done in accordance with the relevant *Australian Standards*, particularly *AS1940* and *AS1596*, and the *Dangerous Goods Code*; and
  - (b) Explosives are carried out in accordance with the requirements of DRE.



## WASTE

### Operating Conditions

Note: These conditions only apply to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence under the *Protection of the Environment Operations Act 1997*.

98. The Applicant must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by a licence under the *Protection of the Environment Operations Act 1997*.
99. Except as provided by any other condition of this consent, only the hazardous and/or industrial and/or Group A waste listed below may be generated and/or stored at the premises:
- Waste oil/water, hydrocarbons/water mixtures or emulsions.
100. Deleted
101. Deleted
102. Deleted
103. Deleted.
104. Deleted.
105. Any movement of hazardous, industrial or Group A waste from the premises must be conducted in accordance with the EPA's waste tracking requirements. A copy of these tracking requirements is included in **Schedule 8**.

### Waste Management Plan

106. The Applicant shall prepare and implement a Waste Management Plan for the whole site. This plan shall include, but not necessarily be limited to:
- (a) measures to minimise the production and impact of waste produced at the site during drilling and operation;
  - (b) implementation of waste reduction, reuse and recycling principles;
  - (c) details of the reuse and recycling of waste water produced/collected on the site, including collection and handling procedures;
  - (d) details of appropriate disposal methods in the event that reuse and recycling are not available or are not practicable; and
  - (e) programs for involving and encouraging employees and contractors to minimise domestic waste production on the site and reuse/recycle where appropriate.

Key concepts of the plan and management measures should be submitted and approved by the Secretary prior to substantial construction. The plan shall be fully completed and approved by the Secretary prior to commissioning.

## ROADS AND TRAFFIC

### Roads within EMAI

107. The Applicant shall not bring into the EMAI site, any roadbase material for new access roads to gas well sites EM 1 to EM 4 (inclusive) and gas well site EM 6 (refer to **Figure 3, Appendix B** for locations of roads).
108. The Applicant shall ensure that the existing access roads marked blue on **Figure 3** (Appendix B) (between gas well sites EM 6 and EM 8) are used by light vehicles only.
109. The Applicant shall ensure that all heavy vehicles only travel along access roads designated for such vehicles.
110. The Applicant shall ensure that during and immediately following heavy rainfall events, vehicle movements to gas well sites and / or gas gathering systems will cease.

111. On completion of drilling and fracking activities, the Applicant shall rehabilitate soils affected by compaction. This rehabilitation shall be conducted in consultation with a representative from EMAI.

**Works within the Wollondilly Shire Council Road Reserve**

112. The Applicant shall prepare a Road Reserve Environment Management Plan (EMP) in consultation with Wollondilly Shire Council and Campbelltown City Council. The Road Reserve EMP shall be submitted to the Secretary for approval one month prior to the construction of the gas gathering line within the Road Reserve or within such period as approved the Secretary. The Road Reserve EMP shall include:
- (a) Proposed construction methods;
  - (b) Soil erosion and sediment control measures for works undertaken during construction and following completion of the works;
  - (c) Traffic control plans; and
  - (d) Techniques for construction of the gas gathering line across Menangle Bridge.
113. The Applicant shall liaise with Wollondilly Shire Council regarding the proposed crossing of the gas gathering line across Menangle Bridge and undertake the proposed works to the satisfaction of Wollondilly Shire Council.

**M5 Underbore – Menangle Park**

114. The Applicant shall conduct the underboring of the M5 road to the satisfaction of the RMS. The Applicant shall ensure that the M5 underbore:
- (a) Has a minimum depth of 1.2 metres at the lowest point of the road formation;
  - (b) Excavation for the thrust pits are outside the Freeway Reserve; and
  - (c) Requires no access from within the Freeway for construction or maintenance purposes;

unless otherwise agreed by the RMS.

**BUSHFIRE**

**Bushfire Hazard Measures**

115. The Applicant shall implement the following bushfire hazard measures at the site:
- (a) Provision of a two-lane access road to the Treatment Plant area from Menangle Road;
  - (b) Provision of a 20 metre asset protection zone managed as an inner protection area, around the perimeter of the Gas Treatment Plant and gas well sites;
  - (c) Provision of a dedicated water supply tank of 20,000 Litres for the sole use of fire-fighting; and
  - (d) Provision of the location of gas wells, access roads to the gas well sites and access roads to the Gas Treatment Plant Site to the NSW Rural Fire Service.

Note: The terms "Asset Protection Zone" and "Inner Protection Area" as specified in this Condition are defined within the "Planning for Bushfire Protection 2001" Guidelines published jointly by the NSW Rural Fire Service and the Department.

**Measures for the Living Quarters Building**

116. The Applicant shall consult with the NSW Rural Fire Service and lodge an application to the NSW Rural Fire Service for any approval or authorisation required in respect to the structure identified as "Living Quarters";
117. The Applicant shall comply with the requirements of any such further approval or authorisation granted by the NSW Rural Fire Service in respect of the structure "Living Quarters."
118. The Applicant shall construct and maintain the building "Living Quarters" and the surrounding area in accordance with the requirements of the "Planning for Bushfire Protection 2001" Guidelines published jointly by the NSW Rural Fire Service and the Department.

**Bushfire Management Plan**

119. The Applicant shall prepare and implement a Bushfire Management Plan for the whole site. This plan shall be prepared prior to the commissioning of the development and be prepared to the satisfaction of the Rural Fire Service having regard to any standard local government bushfire related requirements. The plan shall be submitted to the Secretary prior to commissioning and include, but not necessarily be limited to:

- (a) adequate fire protection works, fire fighting equipment and hazard reduction measures with particular attention to boundaries of adjoining landholdings;
- (b) an annual report on fire management activities to the Campbelltown Fire Management Committee; and
- (c) the incorporation of relevant bushfire hazard measures and policies of the three Councils.

## REHABILITATION

### Site Rehabilitation Performance

120. The Applicant shall ensure the prompt and effective rehabilitation of all disturbed areas of the site following the completion of construction, operations and associated activities and/or the decommissioning of plant, to minimise the generation of wind erosion dust.
121. The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DRE.
122. The Applicant shall ensure that all areas of earthworks associated with the construction of the gas gathering system are rehabilitated to the pre-existing site conditions on completion of construction.

### Rehabilitation of Gas Gathering System - Stream Crossings

123. The Applicant shall ensure that for all trenched crossings, the natural bed and bank profiles are restored to their original conditions, with smooth and even surfaces following the installation of the gas pipe.
124. The Applicant shall stabilise and rehabilitate as soon as possible all disturbed soil surfaces with sterile exotic cover crops and local native grasses. The Applicant is not permitted to use Kikuyu and other invasive grass species.
125. The Applicant shall maintain and monitor all rehabilitated riparian zones for a period of at least two years after final planting. Maintenance must include sediment and erosion control, watering, weed control, replacement of plant losses, disease and insect control, mulching and any other requirements for achieving successful vegetation establishment.

Note: The Secretary may require the Applicant to prepare and implement a Vegetation Management Plan and remedial works if disturbance is deemed excessive.

## CONFIRMATION OF PROJECT COMPONENTS

### Gas Flare Design Report

126. The Applicant shall submit a written report at least one month prior to the commissioning of the flare, to the EPA's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, containing the following information:
  - (a) Describe best practice flare design and, in particular, identify flare design and operational conditions that minimise emissions of air pollutants (including VOCs and nitrogen oxides), maximise destruction of hydrocarbons and maximise dispersion of air pollutants;
  - (b) Benchmark the design of the proposed Stage II flare against best practice as identified in subclause (a);
  - (c) Assess the ability of the proposed Stage II flare to meet a destruction efficiency of 98% for VOCs plus methane;
  - (d) Identify any changes in the design of the proposed Stage II flare required to meet the best practice requirements identified in a) and the destruction efficiency and nitrogen oxides emission rate specified in subclause (c) and any difficulties in making these changes; and
  - (e) Using the results of subclauses (a) to (d), identify the optimum temperature and residence time to achieve maximum destruction efficiency for the proposed flare design.

Note: This condition confirms the gas flare structure and specifications.

**Gas Gathering System**

127. The Applicant shall comply with the following in the construction of the gas gathering system pipeline:
- (a) signs stating the presence of a buried gas pipeline shall be erected periodically along the length of the trench once the pipeline has been laid;
  - (b) trenches are to be restored and reseeded with local grass seeds on completion of the work;
  - (c) local council traffic guidelines in respect of work carried out on road verges and underneath roads shall be implemented;
  - (d) The Applicant shall construct the gas gathering system so as not to impeach lateral water flows;
  - (e) The Applicant shall ensure that no crown or camber remains along the gas gathering systems, following construction;
  - (f) the pipeline shall be designed, constructed and operated in accordance with the Australian Standard for the installation and maintenance of Plastic Pipe Systems for Gas AS 3723-1989; and
  - (g) the Department shall be notified on the completion of any trenching works.

**Menangle Park Urban Release**

128. Should the future Local Environmental Plan and/or Master Plan for the Menangle Park urban release area identify the need to relocate any gas gathering lines the subject of this consent to ensure an efficient and environmentally sustainable urban outcome, that infrastructure shall be relocated by, and at the cost of the applicant to the satisfaction of the Secretary following consultation with Campbelltown City Council.

# SCHEDULE 5

## ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING

### CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

1. The Applicant shall prepare and implement a Construction Environmental Management Plan (CEMP) to provide environmental management, practices and procedures to be followed during the drilling and construction phases of the proposed development. A framework plan outlining key practices, procedures and environmental management practices should be approved by the Secretary prior to the commencement of substantial construction. Sub-plans detailing implementation measures shall be submitted for approval at various stages of construction as agreed by the Secretary.

### OPERATIONAL ENVIRONMENTAL MANAGEMENT PLAN

2. The Applicant shall prepare and implement an Operational Environmental Management Plan (OEMP) to provide environmental management practices and procedures to be followed during the operation of the development. The OEMP shall be forwarded to the Secretary for approval one month prior to commissioning. The OEMP shall include, but not necessarily be limited to:
  - (a) identification of all statutory and other obligations that the Applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;
  - (b) a description of the roles and responsibilities for all key personnel involved in the drilling and operation of the development;
  - (c) the overall environmental policies and principles to be applied to the operation of the development;
  - (d) standards and performance measures to be applied to the development, and a means by which environmental performance can be periodically reviewed and improved; and
  - (e) management policies to ensure that environmental performance goals are met and to comply with conditions of this consent.
3. The Applicant shall supply a copy of the CEMP and OEMP to the EPA, DRE, Camden Council, Campbelltown City Council and Wollondilly Shire Council within fourteen days of the Secretary's approval. The Applicant shall ensure that a copy of the CEMP and OEMP is publicly available.
4. The Applicant shall review and update the OEMP annually, or as directed by the Secretary.

**Note:** Submission of a copy of the approved Plan to other Government agencies does not mean that their approval is required. The Plan is for the information of the agency.

### ANNUAL ENVIRONMENTAL PERFORMANCE REPORTING

5. Within twelve months of the date of this consent, and annually thereafter during the life of the development, the Applicant shall submit an Annual Environmental Performance Report to the Secretary. This report shall include, but not be limited to:
  - (a) the standards, performance measures and statutory requirements the development is required to comply with;
  - (b) an assessment of the environmental performance of the development to determine whether it is complying with these standards, performance measures, and statutory requirements;
  - (c) reporting against the implementation of the Project Commitments Register;
  - (d) copy of the Complaints Register for the preceding twelve month period and indicating what actions were (or are being) taken to address these complaints;
  - (e) indication of what actions were taken to address any issue and/or recommendation raised by the Community Consultative Committee;
  - (f) provision of the detailed results of all the monitoring required by this consent;
  - (g) review of the results of this monitoring against:
    - impact assessment criteria;
    - monitoring results from previous years; and
    - predictions in the EIS;
  - (h) identify any non-compliance during the year;

- (i) identify any significant trends in the data; and
  - (j) if any non-compliance is detected, describe what actions and measures would be carried out to ensure compliance, clearly indicating who would carry out these actions and measures, when they would be carried out, and how the effectiveness of these measures would be monitored over time.
6. The Secretary may require the Applicant to address certain matters identified in the Annual Environmental Performance Report. Any action required to be undertaken shall be completed within such period as the Secretary may agree.
7. The Applicant shall also submit a copy of the Annual Environmental Performance Report to the EPA, DRE, Camden Council, Campbelltown City Council and Wollondilly Shire Council. The Applicant shall make a copy of the Report publicly available.

#### **INDEPENDENT ENVIRONMENTAL AUDIT – CONSTRUCTION AT EMAI**

8. The Applicant shall commission and pay the full costs of an Independent Environmental Audit of the construction of the gas gathering system, construction of the access roads and drilling and fracing of gas wells on the EMAI. The objective of the audit is to monitor the performance and effect of construction activities on the EMAI. The Independent Environmental Audit shall:
- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Secretary; and
  - (b) be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals.
- The Audit shall:
- (a) assess the environmental performance of the construction of the development on EMAI, and its effects on the surrounding environment;
  - (b) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
  - (c) consider the Applicant's proposed Construction Environmental Management Plan for the EMAI Site; and
  - (d) recommend measures or actions to improve the environmental performance of the construction of the development on EMAI, and/or its environmental management and monitoring systems (if required).
9. Within one month of completion of the audit, the Applicant must submit a copy of the audit report to the Secretary, the NSW Heritage Office and NSW Agriculture. The Secretary may require the Applicant to address certain matters identified in the report and any comments received from the NSW Heritage Office and NSW Agriculture. Any action required to be undertaken shall be completed within such period as the Secretary may agree.

#### **INDEPENDENT ENVIRONMENTAL AUDIT - OPERATION**

10. Within two years of the date of this consent and every two years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:
- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Secretary;
  - (b) be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals;
  - (c) assess the environmental performance of the development, and its effects on the surrounding environment;
  - (d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
  - (e) review the adequacy of the Applicant's Environmental Management Plan; and
  - (f) recommend measures or actions to improve the environmental performance of the development, and/or its environmental management and monitoring systems.
11. Within two months of commissioning the audit, the Applicant must submit a copy of the audit report to the Secretary, EPA and the DRE.

## ASSESSABLE POLLUTANTS – LOAD LIMITS

12. Deleted.

## MONITORING AND RECORDING CONDITIONS

13. Deleted.

14. Deleted.

15. Deleted.

## REPORTING CONDITIONS

16. The Applicant shall provide an Annual Return to the EPA in relation to the development as required by any licence under the *Protection of the Environment Operations Act 1997* in relation to the development. In the Annual Return the Applicant must report on the annual monitoring undertaken (where the activity results in pollutant discharges), provide a summary of complaints relating to the development, report on compliance with licence conditions and provide a calculation of licence fees (administrative fees and, where relevant, load based fees) that are payable. If load based fees apply to the activity the Applicant will be required to submit load-based fee calculation worksheets with the return.

## COMMUNITY CONSULTATIVE COMMITTEE

17. The Applicant shall ensure the continuation of the existing Sydney Gas Operations Camden Project Community Consultative Committee to oversee the environmental performance of the development. The Committee shall continue to be chaired by an independent chairperson approved by the Secretary in consultation with the Applicant, Camden Council, Campbelltown City Council and Wollondilly Shire Council. The Committee shall:
- (a) have four community representatives residing in the PEL 2 area;
  - (b) have one representative from each of the following Councils: Camden Council, Campbelltown City Council and Wollondilly Shire Council;
  - (c) meet at least quarterly;
  - (d) take minutes of the meeting; and
  - (e) make comments and recommendations about the implementation of the development and environmental management plans, monitor compliance with conditions of this consent and other matters relevant to the operation of the Stage 2 development during the term of the consent.

Representatives from relevant government agencies or other individuals may be invited to attend meetings as required by the Chairperson.

18. The Applicant shall:
- (a) Ensure that two of its representatives attend the Committee's meetings;
  - (b) Provide the Committee with regular information on the environmental performance and management of the development;
  - (c) Ensure that the Committee has reasonable access to the necessary plans to carry out its functions;
  - (d) Consider the recommendations and comments of the Committee and provide a response to the Committee and Secretary;
  - (e) Provide access for site inspections by the Committee;
  - (f) Make the minutes available for public inspection at Camden Council, Campbelltown City Council and Wollondilly Shire Council within fourteen days of the Committee meeting, or as agreed to by the Committee; and
  - (g) Forward a copy of the minutes of each Committee meeting, and any responses to the Committee's recommendations to the Secretary and the DRE within a month of each Committee meeting.

## COMPLAINTS REGISTER

19. The Applicant shall record details of all complaints received in an up-to-date Complaints Register. The Register shall record, but not necessarily be limited to:
- (a) the date and time, where relevant of the complaint;
  - (b) the means by which the complaint was made;
  - (c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;
  - (d) the nature of the complaints;



- (e) any action(s) taken by the Applicant in relation to the complaint, including any follow-up contact with the complainant; and
- (f) if no action was taken by the Applicant in relation to the complaint, the reason(s) why no action was taken.

The Complaints Register shall be made available for inspection by the EPA or the Secretary upon request. The Applicant shall also make summaries of the register, without details of the complainants, available for public inspection.

#### **COMMUNITY AWARENESS PROTOCOL**

20. The Applicant shall prepare a Community Awareness Protocol to advise nearby residents and appropriate authorities if a leak of mercaptan odourant occurs from the Gas Treatment Plant and/or associated facilities. The Protocol shall detail the circumstances when it will be implemented and describe the procedure and timeframe in which residents and authorities will be notified. The residents and authorities to be notified will be identified in the Protocol. The Applicant shall submit the Community Awareness Protocol to the Secretary for approval one month prior to commissioning of the Gas Treatment Plant.

## **SCHEDULE 6**

### **MANDATORY CONDITIONS FOR ALL EPA LICENCES**

Deleted.

## SCHEDULE 7

### GENERAL CONDITIONS FOR PART 3A PERMITS DEPARTMENT OF WATER AND ENERGY

- 1 Irrespective of the granting of this consent or approval by any other Authority, work is not to commence in, or within a horizontal distance of 40m from the top of the bank of the watercourse/foreshore, without the prior issue of a Part 3A permit by the DPI Water.
- 2 Prior to the issue of the Part 3A permit the applicant must provide the DPI Water with the following:
  - A copy of the development consent including all conditions of approval;
  - Plans and/or other documentation (3 copies) that satisfy the DPI Water General Terms of Approval and recommendations which are included in the consent conditions; and
  - The appropriate permit fee paid to the DPI Water.
- 3 Work is to be carried out in accordance with drawings and any management plans required by these conditions and approved by the DPI Water that will accompany the 3A permit.
- 4 Any Part 3A permit issued is to be renewed on an annual basis until all works and all rehabilitation, including maintenance provisions, have been satisfactorily completed in accordance with the permit conditions. Any application for renewal will be lodged at least 1 month prior to the permit expiry date.
- 5 Work shall not cause unnecessary damage to, or increase erosion of, the stream bed or banks. The permit holder shall carry out any instructions given by the DPI Water with a view to preventing degradation of the stream bed or banks.
- 6 Any vegetation or other material removed from the area of works shall be disposed of so that the material cannot be swept back into the stream during a flood.
- 7 All works proposed must be designed, constructed and operated so they do not cause erosion or sedimentation and to minimise adverse impacts on aquatic and riparian environments.
- 8 No plastic netting is to be used, for any purpose, in the stream or within the riparian zone unless such netting is of a rapidly biodegradable variety.
- 9 Erosion and sediment control measures are required to be implemented prior to any works commencing, and must be maintained for as long as necessary after the completion of works, to prevent sediment and dirty water entering the river system. These measures are to be in accordance with Council's requirements and follow best management practices as outlined in the NSW Department of Housing's "*Managing Urban Stormwater: Soils and Construction*" (1998) manual (the "Blue Book").
- 10 The excavation of soil/spoil and its removal is the responsibility of the permit holder and the owner or occupier of the land.
- 11 The approval of NSW Fisheries is required for all proposed designs of in-stream works prior to the issue of the Part 3A permit.
- 12 These conditions are issued with the proviso that operations shall be carried-out on freehold land. Should operations be on Crown Land, these conditions are null and void and the occupier of Crown Land should contact the Department of Lands to obtain landowner's consent.
- 13 Work is to be carried out in accordance with any conditions imposed by other government agencies, provided such conditions do not conflict with these conditions or the conditions on the Part 3A permit.
- 14 The permit holder and the owner or occupier of the land are responsible for any works undertaken by any other person or company on this site.
- 15 The rehabilitation of the area in accordance with the Part 3A permit conditions is the responsibility of the permit holder and the owner or occupier of the land.
- 16 Any Part 3A permit granted is not transferable to any other person or company without the written approval of the DPI Water and does not authorise works at any other site.
- 17 Any Part 3A permit granted does not give the holder the right to occupy any land without the owner(s) consent nor does it relieve the holder of any obligation which may exist to also obtain permission from local government and other authorities who may have some form of control over the site and/or the activities proposed.
- 18 Work as executed survey plans of a professional standard shall be provided to the DPI Water upon request.

- 19** If, in the opinion of a the DPI Water officer, any activity is being carried out in such a manner that it may unnecessarily degrade the riparian zone, stream, lake or foreshore environment, all work shall cease immediately upon oral or written direction of such officer.
- 20** If the permit conditions have been breached, the permit holder shall restore the site in accordance with the permit conditions and/or as directed by the DPI Water. If any breach of the permit conditions requires a special site inspection by the DPI Water, then the permit holder shall pay a fee prescribed by the DPI Water for this inspection and all subsequent breach inspections.
- 21** If works are to cease prior to completion the **DPI WATER** must be notified in writing one month in advance of the cessation of the operation.

## **SCHEDULE 8**

### **EPA WASTE TRACKING REQUIREMENTS**

Deleted.

# APPENDIX A

## SCHEDULE OF LAND<sup>1</sup>

FACILITY	PROPERTY DP NUMBER
Gas Well GL 5	1101/883495
Gas Well GL 7	1101/883495
Gas Well GL 8	1101/883495
Gas Well GL 9	1101/883495
Gas Well GL 10	1102/883495
<b>Gas Well GL14</b>	<b>1102/883495</b>
<b>Gas Well GL15</b>	<b>1102/883495</b>
<b>Gas Well GL16</b>	<b>1101/883495</b>
<b>Gas Well GL17</b>	<b>1101/883495</b>
Gas Well WG 1	24/4450
Gas Well WG 2	23/4450
Gas Well WG 3	23/4450
Gas Well WG 4	24/4450
Gas Well WG 5	23/4450
Gas Well WG 6	23/4450
Gas Well RP 1	3/622362
Gas Well RP 2	3/622362
Gas Well RP 3	3/622362
Gas Well RP 4	58/632328
Gas Well RP 5	58/632328
Gas Well RP 6	58/632328
Gas Well RP 7	58/632328
Gas Well RP 8	PT35/230946
Gas Well RP 9	PT35/230946
Gas Well RP 10	2/622362
Gas Well RP 11	2/622362
Gas Well RP 12	2/622362
Gas Well EM 1	11/658458
Gas Well EM 2	11/658458
Gas Well EM 3	11/658458
Gas Well EM 4	11/658458
Gas Well EM 5	11/658458
Gas Well EM 6	11/658458
Gas Well EM 7	11/658458
Gas Well EM 8	11/658458
Gas Well EM 9	PT1/168893
Gas Well EM 10	1/726446
Gas Well EM 11	PT1/168893
Gas Well EM 12	PT1/168893
Gas Well EM 13	1/726446
Gas Well EM 14	PT1/168893
Gas Well EM 15	PT1/168893
Gas Well EM 16	PT1/168893
Gas Well EM 17	PT1/168893
Gas Well EM 18	1/130288
Gas Well EM 19	1/130288
Gas Well EM 20	1/130288
<b>Gas Well EM38</b>	<b>1/130288</b>
<b>Gas Well EM39</b>	<b>2/1050479</b>
Gas Gathering System – Glenlee	1102/883495, 1101/883495
Gas Gathering System – Wandingong	23/4450, 24/4450
Gas Gathering System – Rosalind	2/622362, 3/622362,

FACILITY	PROPERTY DP NUMBER
Park	PT35/230946, 58/632328
Gas Gathering System – EMAI	1/130288, 1/726446, 11/658458, PT1/168893
Gas Gathering System – Landcom	2/790254, X/378264, D/19853, 2/737485
Gas Gathering System – Campbelltown Council	3/236059, 7/787284, 1/249393
Water Storage Tank – Campbelltown Council	2/236059
Gas Gathering System – Wollondilly Shire Council	Road Reserve
Gas Treatment Plant	PT35/230946

# APPENDIX B

## SCHEDULE OF FIGURES

Figures enclosed in this Appendix include:

- Figure 1 - Sydney Gas Camden Gas Project Stage II Site Plan;
- Figure 2 - Sydney Gas Camden Gas Project Stage 2 – RFI Act 3A Permit Areas;
- Figure 3 - Sydney Gas Camden Gas Project Stage 2 – Amendment to EMAI Access Road (18-11-2004 Map Ref M240329); and
- Figure 4 - Sydney Gas Camden Gas Project Stage 2 – Amendment to EMAI Gathering System (18-11-2004 Map Ref M240328).
- **Figure 5 - Proposed Deviated Wells from GL07.**
- Figure 6 - Well Location with Property Description, dated 4/10/06.
- Figure 7 - Well Location with Property Description.
- Figure 8 - Proposed Mod.3 – Well EM38 and Gathering Line Upgrades.
- **Figure 9 - Overview GL17 and EM39 Modifications.**
- Figure 10 – Location of proposed access road and gas gathering line.
- Figure 11 – New route for the Glenlee-06 gas gathering line.



## APPENDIX C

### CONDITION 2(C) - SCHEDULE OF DOCUMENTS

Documents referred to in Condition 2(c) of Schedule 3 include all of the following documents:

- (i) Email from Sydney Gas Operations to the Department dated 21 July 2003 titled "Wandinong Wells Flora and Fauna Reports" and attachments;
- (ii) Letter from Sydney Gas Operations to the EPA dated 22 July 2003 regarding addendum property tables, future urban release areas and waste materials;
- (iii) Email from Sydney Gas Operations to the Department dated 22 July 2003 regarding an amended schedule of property lots in relation to the DA and EIS;
- (iv) Email from Sydney Gas Operations to the Department dated 30 July 2003 regarding addendum Tables of Property Lots and Deposited Plans for inclusion in the Development Application;
- (v) Email from Sydney Gas Operations to the Department dated 31 July 2003 and attached amended gas gathering map;
- (vi) Email from Sydney Gas Operations to the Department dated 11 August 2003 defining the areas of well development and well operation;
- (vii) Email from Sydney Gas Operations to the Department dated 11 August 2003 regarding raptor breeding zones;
- (viii) Email from Sydney Gas Operations to the Department dated 13 August 2003 regarding well head configuration;
- (ix) Letter from Environmental Resources Management Australia to Sydney Gas Company dated 20 August 2003 regarding additional noise information;
- (x) Letter from Environmental Resources Management Australia to Sydney Gas Company dated 22 August 2003 regarding additional air quality impact assessment information;
- (xi) Email from Sydney Gas Operations to the Department dated 27 August 2003 titled "Plant Emissions" enclosing a plan showing the discharge points of the proposed Treatment Plant;
- (xii) Email from Sydney Gas Operations to the Department dated 27 August 2003 and attached "Emission Data for EPA";
- (xiii) Email from Sydney Gas Operations to the Department dated 28 August 2003 with attached plans of gas well sites with respect to heritage sites;
- (xiv) Letter from Sydney Gas Operations to the EPA dated 2 September 2003 with attached "Emission Data for EPA";
- (xv) Letter from Sydney Gas Operations to the Department dated 2 September 2003 concerning flora and fauna issues and attached letter from Wildscenes Eco-Research to Sydney Gas Operations dated 15 August 2003;
- (xvi) Email from Sydney Gas Operations to the Department dated 5 September 2003 enclosing Figure 5 from the Quantitative Risk Assessment for the EIS;
- (xvii) Supplementary Report titled "Statement of Heritage Impact for Land within the Elizabeth Macarthur Agricultural Institute NSW Agriculture, Menangle" prepared by Geoffrey Britton for Sydney Gas Ltd dated September 2003;
- (xviii) Letter from Sydney Gas Operations to the Department dated 10 September 2003 containing plans of the proposed facilities;
- (xix) Email from Sydney Gas Operations to the Department dated 25 September 2003 regarding heights and dimensions of proposed buildings;
- (xx) Letter from Sydney Gas Operations to the Department dated 29 September 2003 regarding Part 3A Permits;
- (xxi) Letter from Sydney Gas Operations to the Department dated 29 September 2003 regarding flora and fauna information;
- (xxii) Letter from Sydney Gas Operations to the Department dated 29 September 2003 enclosing a report titled "Sydney Gas Proposal – Stage 2 Coal Seam Methane Project Visual Assessment" prepared by URS for Sydney Gas, dated 25 September 2003;
- (xxiii) Supplementary report provided by Sydney Gas titled "Camden Gas Plant Site Alternate Assessment" dated 30 September 2003;
- (xxiv) Supplementary report titled "Response to EPA: DA-282-6-2003 Proposed Sydney Gas Stage II Coal Bed Methane Proposal" prepared by URS for Sydney Gas dated 21 October 2003;
- (xxv) Letter from Environmental Resources Management Australia to Sydney Gas dated 22 October 2003 titled "Stage 2 Coal Bed Methane project – Response to the EPA's Request for Flare Noise Details";
- (xxvi) Email from Sydney Gas Operations to the Department dated 27 October 2003 and attachments regarding the specifications of the flare;
- (xxvii) Email from Sydney Gas Operations to the Department dated 29 October 2003 with an attachment titled "Camden Gas Project Stage II Treatment Plant Footprint";
- (xxviii) Email from Sydney Gas Operations to the Department dated 12 November 2003 regarding the capacity of the Plant and staging of compressor engines;

- (xxix) Letter from Sydney Gas Operations to the Department dated 14 November 2003 enclosing five photomontages of the proposed facilities;
- (xxx) Report titled "Response to EPA: DA-282-6-2003 Proposed Sydney Gas Stage II Coal Bed Methane Proposal" prepared by URS for Sydney Gas dated 18 November 2003;
- (xxxix) Email from Sydney Gas Operations to the Department dated 19 November 2003 regarding the capacity of the Treatment Plant and number of wells;
- (xxxii) Report titled "NOx Dispersion Modelling Study – Proposed Camden Gas Project Stage II (DA-282-6-2003)" prepared by URS for Sydney Gas dated 20 November 2003;
- (xxxiii) Email from Sydney Gas Operations to the Department dated 24 November 2003 and attached document describing workover operations;
- (xxxiv) Letter from Sydney Gas Operations to Manager Sydney Industry, DEC dated 24 November 2003, titled "NOx Emissions from Stage II Plant";
- (xxxv) Letter from URS to Sydney Gas dated 12 December 2003 regarding "NOx emissions from Stage II Plant";
- (xxxvi) Facsimile from Sydney Gas Operations to the EPA dated 16 December 2003 titled "Further Requisitions in Relation to Stage II of the Sydney Gas Camden Project";
- (xxxvii) Email from Sydney Gas Operations to the Department dated 23 December 2003 containing attachments regarding the status of gas wells, TEG Regeneration Package Emissions Data, Site Plan and Location of Emission Points (Revision 2), letter from Sydney Gas Operations to the EPA dated 23 December 2003 titled "Sydney Gas Operations Pty Ltd Stage 2 – Coal Seam Methane Proposal – General Terms of Approval", and brochure titled "Bentofix with Thermal lock" produced by Geofabrics Australasia Pty Ltd;
- (xxxviii) Email from Sydney Gas Operations to the Department dated 2 January 2004 regarding the Start Gas Vents, stormwater pond and compressor engines;
- (xxxix) Email from Sydney Gas Operations to the EPA dated 5 January 2004 titled "EPA Request for additional information";
- (xl) Email from Sydney Gas Operations to the EPA dated 7 January 2004 titled "Revised GTA's - Sydney Gas Stage II" and attachments;
- (xli) Email from Sydney Gas Operations to the EPA dated 12 January 2004 titled "GTA's - Sydney Gas Stage II" and attachments;
- (xlii) Email from Sydney Gas Company to Greg Abood of Department of Environment and Conservation dated 9 January 2004 titled "GTAs- Sydney Gas Camden Project – Stage II " with attachments from ERM titled "Stage II Coal Bed Methane –GTA Noise limits", attachment from URS titled "EPA Revised Draft GTAs (Version 3) and graph titled "NOx Emissions Levels Between Major Engine Overhauls";
- (xliii) Email from Wendy Gurd of Sydney Gas Company to Greg Abood of Department of Environment and Conservation dated 12 January 2004 titled "GTAs- Sydney Gas Camden Project – Stage II "and
- (xliv) Email from Sydney Gas Company to Greg Abood of Department of Environment and Conservation dated 27 January 2004 titled "Sydney Gas – GTAs".