

ANNEXURE "A"

CONDITIONS OF DEVELOPMENT CONSENT

SCHEDULE 1

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. 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)
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 <i>Environmental Planning and Assessment Act 1979</i> .
Integrated Development:	The proposal is classified as integrated development under Section 91 of the <i>Environmental Planning and Assessment Act 1979</i>, as it requires additional approvals under the: • <i>Protection of the Environment Operations Act 1997</i>; • <i>Rivers and Foreshore Improvement Act 1948</i>; and • <i>Mine Subsidence Compensation Act 1961</i>
Designated Development:	The proposal is classified as designated development, under Section 77A of the <i>Environmental Planning & Assessment Act 1979</i> , because it is "petroleum works" and therefore meets the criteria for designated development in Schedule 3 of the <i>Environmental Planning & Assessment Regulation 2000</i> .

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.*
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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
The Department	The Department of Infrastructure, Planning and Natural Resources
The Director-General	The Director-General of the Department of Infrastructure, Planning and Natural Resources, or her delegate
DEC	Department of Environment and Conservation
DMR	Department of Mineral Resources
EIS	Environmental Impact Statement
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	Environment Protection Authority (now incorporated within the DEC)
EMAI	Elizabeth Macarthur Agricultural Institute
Evening	Between 6.00pm and 10.00pm
GTA	General Term of Approval
L _{AEQ15min}	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 Infrastructure and Planning
MSB	Mine Subsidence Board
Night	Between 10.00pm and 7.00am Monday to Saturday and 10.00pm and 8.00am Sundays and Public Holidays
NPWS	National Parks and Wildlife Service (now incorporated within the DEC)
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
RTA	Roads and Traffic Authority
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. ¹The 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; and^V~~
 - ~~(e)(f)~~ Conditions of this consent.
3. In the event of an inconsistency between:
 - (a) the conditions of this consent and any document listed from condition 2(a) to 2(d) inclusive, the conditions of this consent shall prevail to the extent of the inconsistency; and
 - (b) any document listed from condition 2(a) to 2(d) inclusive, the most recent document shall prevail to the extent of the inconsistency.
4. The Applicant shall comply with any reasonable requirement/s of the Director-General 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 for a period of~~ 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.

Special Conditions of Approval

7. ²The 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. ³Within 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 Director-General 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.

¹ Incorporates an EPA General Term of Approval

² Incorporates an EPA General Term of Approval

³ Incorporates an EPA General Term of Approval

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

After reviewing this report, the Director-General 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 Department of Mineral Resources 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 43 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 Director-General 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 Director-General 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 Director-General that all the relevant conditions applicable to construction have been complied with.
20. The Applicant shall submit for the approval of the Director-General two weeks prior to the commissioning of the development or within such other period that the Director-General 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 Director-General, 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 Director-General.

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 Director-General 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 Director-General 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 Director-General 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 Director-General. 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 Director-General 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 Director-General 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 Director-General.
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 Director-General 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 Director-General;
 - (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 Director-General; and
 - (f) Be implemented to the satisfaction of the Director-General.
19. Within 2 months of commissioning this audit the Applicant shall submit a copy of the audit report to the Director-General 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 Director-General upon request.

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 EM 12 during the months of February and/or March or such other period as agreed by the Director-General.
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 Director-General.
26. The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Director-General.
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 Director-General's approval prior to construction. The Translocation strategy shall be implemented should any individuals or populations of the Cumberland Plain Snail be identified.

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 _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{A1} (1 minute)
R1 Medhurst Street Gilead	35	35	35	45
R7 Mt. Gilead Gilead	37	36	36	45

30. For the purposes of condition 29 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 L _{Aeq,15min}	Evening L _{Aeq,15min}	Night L _{Aeq,15min}
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
R7 Mt. Gilead	> 2.5 hours	Spill Valve	37	36	36
	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_{Aeq}(15 minute) and L_{Aeq}(period) noise limits in Conditions 29 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 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:
- (a) noise compliance standards;
 - (b) community consultation;
 - (c) advance notice to affected members of the community for planned well maintenance activities;
 - (d) complaints handling monitoring/system;
 - (e) site contact person to follow up complaints;
 - (f) mitigation measures;
 - (g) the design/orientation of the proposed mitigation methods demonstrating best practice;
 - (h) construction times;
 - (i) contingency measures where noise complaints are received; and
 - (j) monitoring methods and program.

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.

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 Director-General 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 Director-General, 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 Director-General, the Applicant shall undertake quarterly attended monitoring at the Mt Gilead Homestead to the satisfaction of the Director-General, in accordance with the NSW Industrial Noise Policy and AS 1055: "Acoustics – Description and Measurement of Environmental Noise".

42. Within six months of the date of this consent, the Applicant shall submit a detailed Noise Monitoring Program for the development to the Director-General for approval prior to commissioning. The Noise Monitoring Program must be prepared in consultation with the EPA and must include: a detailed noise monitoring protocol for evaluating compliance with the limits in conditions 29 and 31. The protocol must include consideration of monitoring under meteorological conditions as required by condition 33 and must provide for installation and use of a continuous noise monitoring system for the first 12 months of operation capable of identifying the source of dominant noise at R7 Mt Gilead, subject to the agreement of the owners and occupiers of this residence. In addition, meteorological conditions must be obtained for the time of noise monitoring. This is to include wind speed and direction as well as data suitable for quantifying the presence or otherwise of

temperature inversions. The Applicant must comply with the Noise Monitoring Program at all times during operation of the development. .

Noise Monitoring Report - Flare

43. ⁴The 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 Refracking Management Plan

Note:	For the purposes of this consent the redrilling and/or additional fraccing of a well does not constitute wellhead maintenance.
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44. The Applicant shall obtain the prior approval of the Director-General for the redrilling and/or additional fraccing of a gas well.
45. The Applicant shall prepare a Redrilling and Refracking Management Plan in consultation with the Department of Mineral Resources for the redrilling and/or refracking of an existing well. The Plan shall be submitted to the Director-General no later than one month prior to the commencement of the work or within such period as agreed by the Director-General. 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 refracking 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/refracking work.

The Applicant shall give written notification of the proposed redrilling/refracking 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.

⁴ Incorporates an EPA General Term of Approval

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 Director-General and the DMR 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 $\mu\text{g}/\text{m}^3$
Nitrogen Dioxide	Annual	62 $\mu\text{g}/\text{m}^3$
Sulphur Dioxide	1 Hour	570 $\mu\text{g}/\text{m}^3$
Sulphur Dioxide	Annual	60 $\mu\text{g}/\text{m}^3$
Sulphuric acid mist	3 minute	33 $\mu\text{g}/\text{m}^3$
Methyl mercaptan	3 minute	0.84 $\mu\text{g}/\text{m}^3$

48. ⁵For each discharge point⁶ specified in the table below, the Applicant shall ensure that the concentration of a pollutant discharged at that point does not exceed the concentration limit specified for that pollutant in the table, and where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

POINT 1, 2, 3

Pollutant	Units of measure	100 percentile limit	Reference Conditions	Averaging Period
Oxides of Nitrogen	mg/m^3	461	Dry, 273K, 101.3kPa, 7% O ₂	As per test method
Sulfur Dioxide	mg/m^3	7	Dry, 273 K, 101.3 kPa	As per test method
Sulphuric acid mist and/or sulphur trioxide	mg/m^3	3.1	Dry, 273 K, 101.3 kPa	As per test method

POINT 4

Pollutant	Units of measure	100 percentile limit	Reference Conditions	Averaging Period
Oxides of Nitrogen	mg/m^3	110	Dry, 273K, 101.3kPa, 7% O ₂	As per test method
Sulfur Dioxide	mg/m^3	35	Dry, 273 K, 101.3 kPa	As per test method
Sulphuric acid mist and/or sulphur trioxide	mg/m^3	1.0	Dry, 273 K, 101.3 kPa	As per test method

POINT 5

Pollutant	Units of measure	100 percentile limit	Reference Conditions	Averaging Period
Oxides of Nitrogen	mg/m^3	13	Dry, 273K, 101.3kPa, 7% O ₂	As per test method
Sulfur Dioxide	mg/m^3	1042	Dry, 273 K, 101.3 kPa	As per test method
Sulphuric acid mist and/or sulphur trioxide	mg/m^3	35	Dry, 273 K, 101.3 kPa	As per test method

⁵ Incorporates an EPA General Term of Approval

⁶ The Location of each Point is defined in Condition 54

Note 1: ⁷Concentration limits at points 1, 2, 3, 4 and 5 in the above Condition may be subject to review after the submission of the Air Emissions Reports in compliance with Conditions 62 and 63.

Note 2: Should the proponent seek to revise the concentration limits as specified in condition 48 for oxides of nitrogen, the proponent must demonstrate that:

- the revised emission limit is representative of the proper and efficient maintenance and operation of the equipment;
- the equipment is designed to minimise emissions as far as is practicable and consistent with best practice considering the type of equipment and application;
- the revised emission limit is supported by Manufacturers Design Specification; and
- the revised emission limit does not cause adverse impacts on local air quality. This assessment must be undertaken in accordance with the document: Approved Methods and Guidance for the Modelling and Assessment of *Air Pollutants in NSW*.

49. ⁸To avoid any doubt, the above Condition does not authorise the discharge or emission of any other pollutants.

Combustion Parameters

50. ⁹For each monitoring/discharge point or utilisation area specified in the table below (by point number¹⁰), 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: ¹¹The 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. ¹²The Applicant shall undertake the development and maintain the condition of the premises in a way that minimises or prevents the emission of dust generated by the development.

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. ¹³For the purposes of this consent, the points referred to in the table below are identified for the purposes of monitoring and/or setting of limits for the emission of pollutants to air from that point:

⁷ Incorporates an EPA General Term of Approval

⁸ Incorporates an EPA General Term of Approval

⁹ Incorporates an EPA General Term of Approval

¹⁰ The Location of each Point is defined in Condition 54

¹¹ Incorporates an EPA General Term of Approval

¹² Incorporates an EPA General Term of Approval

¹³ Incorporates an EPA General Term of Approval

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Description of Location
1	Air emissions monitoring	Discharge to air	Compressor Engine 1 marked 'Engine Exhaust Stack 1' as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.
2	Air emissions monitoring	Discharge to air	Compressor Engine 2 marked "Engine Exhaust Stack 2" as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.
3	Air emissions monitoring	Discharge to air	Compressor Engine 3 marked "Engine Exhaust Stack 3" as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA..
4	Air emissions monitoring	Discharge to Air	TEG Fire Tube marked 'Reboiler Flue' as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.
5	Air emissions monitoring	Discharge to Air	Reboiler Still Column marked 'Reflux Column Vent' as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.
6	Air emissions monitoring	Discharge to Air	Carbon scrubber vent discharge stack as shown on Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.
7	Air emissions monitoring	Discharge to Air	Main Flare marked 'Flare' as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.

Testing Method – Concentration Limits

55. ¹⁴The Applicant shall ensure that monitoring for the concentration of a pollutant emitted to the air required to be conducted by the EPA's General Terms of Approval, or a licence under the *Protection of the Environment Operations Act 1997*, in relation to the development or in order to comply with a relevant local calculation protocol is done in accordance with:
- (a) any methodology which is required by or under the POEO Act 1997 to be used for the testing of the concentration of the pollutant; or
 - (b) if no such requirement is imposed by or under the POEO Act 1997, any methodology which the general terms of approval or a condition of the licence or the protocol (as the case may be) requires to be used for that testing; or
 - (c) if no such requirement is imposed by or under the POEO Act 1997 or by the general terms of approval or a condition of the licence or the protocol (as the case may be), any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

¹⁴ Incorporates an EPA General Term of Approval

Note: The *Clean Air (Plant and Equipment) Regulation 1997* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "*Approved Methods for the Sampling and Analysis of Air Pollutants in NSW*".

Manufacturers Design Specifications

56. ¹⁵At 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: ¹⁶The 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 Director-General, 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. ¹⁷For each monitoring/ discharge point or utilisation area specified in the tables below (by a point number¹⁸), the Applicant must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The Applicant must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns.

POINTS 1, 2, 3

Pollutant	Units of Measure	Frequency	Sampling Method
Oxides of Nitrogen	mg/m ³	Continuous	CEM-2
Temperature	oC	Continuous	TM-2
Moisture	%	Continuous	TM-22
Volumetric flow rate	m ³ /s	Continuous	CEM-6
Oxygen	%	Continuous	CEM-3

Note: ¹⁹The requirement for continuous monitoring at Point 1, 2 and 3 in Condition 57 will be reviewed after the submission of the Air Emissions Reports in compliance with Conditions 62 and 63.

¹⁵ Incorporates an EPA General Term of Approval

¹⁶ Incorporates an EPA General Term of Approval

¹⁷ Incorporates an EPA General Term of Approval

¹⁸ The Location of each Point is defined in Condition 54

¹⁹ Incorporates an EPA General Term of Approval

POINTS 1, 2, 3, 4, 5

Pollutant	Units of measure	Frequency	Sampling Method
Velocity	m/s	Quarterly	TM-2
Volumetric flow rate	m ³ /s	Quarterly	TM-2
Temperature	°C	Quarterly	TM-2
Moisture	%	Quarterly	TM-22
Dry gas density	Kg/m ³	Quarterly	TM-23
Molecular weight of stack gases	g/g.mol	Quarterly	TM-23
Oxygen	%	Quarterly	TM-25
Carbon dioxide	%	Quarterly	TM-24
Oxides of Nitrogen	mg/m ³	Quarterly	TM-11
Sulfuric Acid Mist/Sulfur Trioxide	mg/m ³	Quarterly	TM-3
Sulfur Dioxide	mg/m ³	Quarterly	TM-4
Selection of sampling positions	-	-	TM-1

Note: ²⁰The requirement for monitoring of emissions at Points 2 and 3 only applies after compressor engines 2 and 3 respectively, commence operations.

POINT 6

Pollutant	Units of measure	Frequency	Sampling Method
Velocity	m/s	Quarterly	TM-2
Volumetric flow rate	m ³ /s	Quarterly	TM-2
Temperature	°C	Quarterly	TM-2
Moisture	%	Quarterly	TM-22
Dry gas density	Kg/m ³	Quarterly	TM-23
Molecular weight of stack gases	g/g.mol	Quarterly	TM-23
Oxygen	%	Quarterly	TM-25
Carbon dioxide	%	Quarterly	TM-24
Odour	OU	Quarterly	OM-7
Selection of sampling positions	-	-	TM-1

Note: ²¹The requirement for quarterly monitoring at Point 6 may be removed based on odour emission performance after 12 months from commissioning of the gas treatment plant.

Monitoring of Combustion Parameters

59. ²²For each monitoring/discharge point or utilisation area specified below (by point number²³), the Applicant must monitor (by sampling and obtaining results by analysis) each parameter specified in Column 1. The Applicant must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

²⁰ Incorporates an EPA General Term of Approval

²¹ Incorporates an EPA General Term of Approval

²² Incorporates an EPA General Term of Approval

²³ The Location of each Point is defined in Condition 54

POINT 7

Parameter	Units of measure	Frequency	Sampling Method
Temperature	°C	Continuous	TM-2
Volume	m ³ /d	Daily during discharge	By Calculation (duration of flaring incident multiplied by the capacity of the unit causing the flaring event)

Installation of Air Monitoring Points Report

60. ²⁴The 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. ²⁵The 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. ²⁶The 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: ²⁷The 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. ²⁸The 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.

²⁴ Incorporates an EPA General Term of Approval

²⁵ Incorporates an EPA General Term of Approval

²⁶ Incorporates an EPA General Term of Approval

²⁷ Incorporates an EPA General Term of Approval

²⁸ Incorporates an EPA General Term of Approval

Odour

64. ²⁹The 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: ³⁰Should 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. ³¹Except 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. ³²For the purposes of this consent, the points referred to in the table below are identified for the purposes of monitoring and/or setting of limits for the emission of pollutants to water from that point:

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Description of Location
8	Discharge to waste facility Discharge quality monitoring	Discharge (by tanker) to waste processing facility	Pump connection point at evaporation pond as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.
9	Discharge to waste facility Discharge quality monitoring	Discharge (by tanker) to sewage treatment plant	Sewage connection point at sewage storage tank as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.
10	Discharge to waste facility Discharge quality monitoring	Discharge (by tanker) to waste processing facility	Pump connection point for oily water wastes as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the EPA.

²⁹ Incorporates an EPA General Term of Approval

³⁰ Incorporates an EPA General Term of Approval

³¹ Incorporates an EPA General Term of Approval

³² Incorporates an EPA General Term of Approval

Monitoring of Effluent Parameters

69. ³³For each monitoring/discharge point or utilisation area specified (by point number³⁴) in the table below, the Applicant must monitor (by sampling and obtaining results by analysis) each parameter specified in Column 1. The Applicant must use the sampling method, units of measure and sample at the frequency specified in the respective columns.

POINT 8

Pollutant	Units of Measure	Frequency	Sampling Method
Total suspended solids	Mg/L	Monthly	Representative
Biochemical oxygen demand	Mg/L	Monthly	Representative
Oil & Grease	Mg/L	Monthly	Representative
Total polycyclic aromatic hydrocarbons	µg/L	Monthly	Representative
Phenols	µg/L	Monthly	Representative
Total organic carbon	µg/L	Monthly	Representative
Total petroleum hydrocarbons	µg/L	Monthly	Representative
Electrical conductivity	µS/cm	Monthly	Representative
Water level in storage	Mm	Monthly	Direct measurement

70. ³⁵The 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. ³⁶The 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.

Note: ³⁷Monitoring of non controlled aqueous waste is required by Condition 69.

Testing Methods – Concentration Limits

72. ³⁸Subject to any express provision to the contrary in this licence, the Applicant shall undertake monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area or taken off-site in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

³³ Incorporates an EPA General Term of Approval

³⁴ The location of the Point is defined in Condition 68

³⁵ Incorporates an EPA General Term of Approval

³⁶ Incorporates an EPA General Term of Approval

³⁷ Incorporates an EPA General Term of Approval

³⁸ Incorporates an EPA General Term of Approval

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. ³⁹The 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. ⁴⁰The 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 Director-General. 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. ⁴¹The 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. ⁴²The 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 Department. The Applicant shall submit the plan for approval by the Director-General **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. ⁴³The Applicant shall advise the Director-General of the proposed stream crossing methods located on EMAI, which are to be assessed and approved by the Department **prior to the issue of the Part 3A Permit**.
78. ⁴⁴The Applicant shall ensure that works within 20 m of watercourses are to be undertaken during dry weather conditions.
79. ⁴⁵The 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. ⁴⁶The 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 Director-General.

³⁹ Incorporates a Department General Term of Approval

⁴⁰ Incorporates a Department General Term of Approval

⁴¹ Incorporates a Department General Term of Approval

⁴² Incorporates a Department General Term of Approval

⁴³ Incorporates a Department General Term of Approval

⁴⁴ Incorporates a Department General Term of Approval

⁴⁵ Incorporates a Department General Term of Approval

⁴⁶ Incorporates a Department General Term of Approval

82. ⁴⁷The 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. ⁴⁸The Applicant shall document in detail the decommissioning of all sediment and erosion controls and any other water diversion structures to the satisfaction of the Director-General. 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*" (3rd Edition 1998).

Soil and Water Management Plan

84. ⁴⁹The 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 Director-General's prior approval of the person to prepare the Plan. The SWMP shall be prepared to the satisfaction of the Director-General **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*" (3rd 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.

Evaporation Pond Liner Integrity Evaluation Program

85. ⁵⁰The 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. ⁵¹Within 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.

⁴⁷ Incorporates a Department General Term of Approval

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⁴⁹ Incorporates a Department General Term of Approval

⁵⁰ Incorporates an EPA General Term of Approval

⁵¹ Incorporates an EPA General Term of Approval

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 NPWS and the Director-General 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.

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.

SAFETY AND RISK MANAGEMENT

Risk Assessment

Pre-Construction Studies

91. The Applicant shall prepare and submit for the approval of the Director-General 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 Director-General 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 Director-General 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 of Infrastructure, Planning and Natural Resources (DIPNR) 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 Director-General 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 DIPNR 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 DIPNR 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 Director-General, at least one month prior to the commencement of the commissioning of the development, or within such further period as the Director-General 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 Director-General. 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 DIPNR 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 Director-General upon request. The Safety Management System shall be developed in accordance with the DIPNR Hazardous Industry Planning Advisory Paper No. 9, "Safety Management".

Compliance Report

93. The Applicant shall submit to the Director-General one month prior to the commissioning of the plant, or within such period approved by the Director-General, 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 Director-General.

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 Director-General 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 Director-General.

Hazard Audit

95. Twelve months after the commencement of operations of the proposed development or within such further period as the Director-General 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 Director-General. The audit shall be carried out at the Applicant's expense by a duly qualified independent person or team approved by the Director-General prior to commencement of the audit. Further audits shall be carried out every three years or as determined by the Director-General and a report of each audit shall within a month of the audit be submitted to the Director-General. 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 Department of Mineral Resources 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 DMR.

WASTE

Operating Conditions

Note: ⁵²These 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. ⁵³The 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. ⁵⁴Except 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. ⁵⁵The quantity of hazardous and/or industrial and/or Group A waste stored at the premises must not exceed 9000 L at any one time.
- 101. ⁵⁶The quantity of hazardous and/or industrial and/or Group A waste generated and/or stored at the premises must not exceed 85,000L per year.
- 102. ⁵⁷The quantity of non controlled aqueous liquid wastes generated at the premises must not exceed 3,000,000 L per year.
- 103. ⁵⁸The Applicant must ensure that any hazardous, industrial or Group A waste at the premises is assessed and classified in accordance with the EPA's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes" in force as at 1 July 2003.
- 104. ⁵⁹The Applicant must ensure that waste identified for recycling is stored separately from other waste.
- 105. ⁶⁰Any 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

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- (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 Director-General prior to substantial construction. The plan shall be fully completed and approved by the Director-General 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 Councilⁱⁱ. The Road Reserve EMP shall be submitted to the Director-General for approval one month prior to the construction of the gas gathering line within the Road Reserve or within such period as approved the Director-General. 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 RTA. 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 RTA.

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 former Department of Urban Affairs and Planning (now DIPNR).

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 former Department of Urban Affairs and Planning (now DIPNR).

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 Director-General 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 DMR.
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. ⁶¹The 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. ⁶²The 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. ⁶³The 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 Director-General may require the Applicant to prepare and implement a Vegetation Management Plan and remedial works if disturbance is deemed excessive.
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CONFIRMATION OF PROJECT COMPONENTS

Gas Flare Design Report

126. ⁶⁴The 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.

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⁶³ Incorporates a Department General Term of Approval

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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 Director-General 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 Director-General 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 Director-General.

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 Director-General 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, DMR, Camden Council, Campbelltown City Council and Wollondilly Shire Council within fourteen days of the Director-General'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 Director-General.

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 Director-General. 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 Director-General 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 Director-General may agree.
 7. The Applicant shall also submit a copy of the Annual Environmental Performance Report to the EPA, DMR, 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 Director-General; 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 Director-General, the NSW Heritage Office and NSW Agriculture. The Director-General 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 Director-General may agree.

INDEPENDENT ENVIRONMENTAL AUDIT - OPERATION

10. Within two years of the date of this consent and every two years thereafter, unless the Director-General 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 Director-General;
 - (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 Director-General, EPA and the DMR.

ASSESSABLE POLLUTANTS – LOAD LIMITS

12. ⁶⁵The Applicant shall pay the load based licensing fees once a licence under the *Protection of the Environment Operations Act 1997* has been issued. The licence will identify the assessable pollutants for each fee-based activity classification. These assessable pollutants will be required to be monitored and pollutant loads calculated in accordance with the EPA's Load Calculation Protocol. The assessable pollutants and load limits applicable to this activity are given in the table below.

Assessable Pollutant	Load Limit (kg)
Benzene (air)	47
Benzo (a) pyrene (air)	0.27
Fine particles (air)	460
Hydrogen sulphide (air)	1.6
Nitrogen oxides (air)	103000
Sulphur oxides (air)	3000
Volatile organic compounds (air)	33000
Total suspended solids (water)	360
Biochemical oxygen demand (water)	370
Oil and grease (water)	96
Total PAHs (water)	0.14
Total phenolics (water)	0.1

Note: ⁶⁶An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

⁶⁷The above load limits in the table may be revised after submission of annual returns for the first three years of operation of the plant.

Note: ⁶⁸Clause 17(1) and (2) of the *Protection of the Environment Operations (General) Regulation 1998* requires that monitoring of actual loads of assessable pollutants listed in Condition 12 (above) must be carried out in accordance with the testing method set out in the relevant load calculation protocol for the fee-based activity classification.

MONITORING AND RECORDING CONDITIONS

13. ⁶⁹The results of any monitoring required to be conducted by the EPA's General Terms of Approval, or a licence under the *Protection of the Environment Operations Act 1997*, in relation to the development or in order to comply with the load calculation protocol must be recorded and retained as set out in the conditions below (Condition 14 and 15).
14. ⁷⁰The Applicant shall keep all records required to be kept by the licence:
- in a legible form, or in a form that can readily be reduced to a legible form;
 - kept for at least 4 years after the monitoring or event to which they relate took place; and
 - produced in a legible form to any authorised officer of the EPA who asks to see them.
15. ⁷¹The Applicant shall keep the following records in respect of any samples required to be collected:
- the date(s) on which the sample was taken;
 - the time(s) at which the sample was collected;
 - the point at which the sample was taken; and
 - the name of the person who collected the sample.

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⁶⁹ Incorporates an EPA General Term of Approval

⁷⁰ Incorporates an EPA General Term of Approval

⁷¹ Incorporates an EPA General Term of Approval

REPORTING CONDITIONS

16. ⁷²The 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 Director-General 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 Director-General;
 - (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 Director-General and the DMR 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 Director-General 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

⁷² Incorporates an EPA General Term of Approval

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 Director-General for approval one month prior to commissioning of the Gas Treatment Plant.



SCHEDULE 6

MANDATORY CONDITIONS FOR ALL EPA LICENCES

ADMINISTRATIVE CONDITIONS

Other activities

Not applicable.

OPERATING CONDITIONS

Activities must be carried out in a competent manner

Licensed activities must be carried out in a competent manner.

- This includes:
 - a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
 - b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

Maintenance of plant and equipment

- All plant and equipment installed at the premises or used in connection with the licensed activity:
 - a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.

MONITORING AND RECORDING CONDITIONS

Recording of pollution complaints

The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

- The record must include details of the following:
 - a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.

The record of a complaint must be kept for at least 4 years after the complaint was made.

The record must be produced to any authorised officer of the EPA who asks to see them.

Telephone complaints line

The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

This condition does not apply until 3 months after the issue of an environment protection licence.

REPORTING CONDITIONS

Annual Return documents

What documents must an Annual Return contain?

- The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

- a) a Statement of Compliance; and
- b) a Monitoring and Complaints Summary.

A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

Period covered by Annual Return

An Annual Return must be prepared in respect of each reporting, except as provided below.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

- Where this licence is transferred from the licensee to a new licensee,
 - a) the transferring licensee must prepare an annual return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an annual return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

- Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an annual return in respect of the period commencing on the first day of the reporting period and ending on
 - a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence – the date from which notice revoking the licence operates.

Deadline for Annual Return

The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

Notification where actual load can not be calculated

Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date.

- The notification must specify:
 - a) the assessable pollutants for which the actual load could not be calculated; and
 - b) the relevant circumstances that were beyond the control of the licensee.

Licensee must retain copy of Annual Return

The licensee must retain a copy of the annual return supplied to the EPA for a period of at least 4 years after the annual return was due to be supplied to the EPA.

Certifying of Statement of Compliance and Signing of Monitoring and Complaints Summary

Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Notification of environmental harm

Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act

Notifications must be made by telephoning the EPA's Pollution Line service on 131 555.

The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Written report

Where an authorised officer of the EPA suspects on reasonable grounds that:

- (a) where this licence applies to premises, an event has occurred at the premises; or
- (b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,

and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

- The request may require a report which includes any or all of the following information:
 - a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; and
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) (details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event;
 - g) (any other relevant matters.

The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

GENERAL CONDITIONS

Copy of licence kept at the premises or on the vehicle or mobile plant

A copy of this licence must be kept at the premises or on the vehicle or mobile plant to which the licence applies.

The licence must be produced to any authorised officer of the EPA who asks to see it.

The licence must be available for inspection by any employee or agent of the licensee working at the premises or operating the vehicle or mobile plant.

SCHEDULE 7

GENERAL CONDITIONS FOR PART 3A PERMITS DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

- 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 Department.
- 2 Prior to the issue of the Part 3A permit the applicant must provide the Department with the following:
 - A copy of the development consent including all conditions of approval;
 - Plans and/or other documentation (3 copies) that satisfy the Department's General Terms of Approval and recommendations which are included in the consent conditions; and
 - The appropriate permit fee paid to the Department.
- 3 Work is to be carried out in accordance with drawings and any management plans required by these conditions and approved by the Department 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 Department 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 Department 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 Department upon request.

- 19** If, in the opinion of a the Department 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 Department. If any breach of the permit conditions requires a special site inspection by the Department, then the permit holder shall pay a fee prescribed by the Department for this inspection and all subsequent breach inspections.
- 21** If works are to cease prior to completion the Department must be notified in writing one month in advance of the cessation of the operation.

SCHEDULE 8

EPA WASTE TRACKING REQUIREMENTS

O5 Monitoring of waste movements within NSW

O5.1 Conditions O5.2 to O5.16 apply to the movement of the types of hazardous and/or industrial and/or Group A waste as listed in L5.3, within NSW.

Prerequisites for waste movements

- O5.2 If the waste is transported from the premises, the licensee must ensure that the waste is transported:
- (a) to a place which has been licensed by the EPA to issue consignment authorisation numbers; and
 - (b) to a place that can otherwise lawfully accept that class of waste.
- O5.3 If the waste is transported from the premises, the licensee must:
- (a) obtain a consignment authorisation number from the consignee;
 - (b) complete an approved waste data form in relation to the consigned waste in accordance with the instructions on the form and to the extent required, and give a copy of the form to the person transporting the waste;
 - (c) ensure that the waste data form:
 - (i) is completed accurately, and
 - (ii) is retained for a period of not less than 4 years from the time the form was completed, and
 - (iii) is made available for inspection by an authorised officer on request;
 - (d) ensure, if the waste is of such an amount as to require the person transporting it to be licensed, that the person transporting the waste is licensed.

Application for a consignment authorisation number

- O5.4 To obtain a consignment authorisation number as required by O5.3 (a), the licensee must apply in writing to the consignee. An application must include the following information:
- (a) a statement identifying the classification of the waste in accordance with the requirements of condition 04.1;
 - (b) copies of all information used to classify the waste;
 - (c) an estimate of the amount of waste to which the application applies;
 - (d) whether the consignment will consist a single load or multiple loads;
 - (e) an estimate of the total period required for transportation of the consignment;
 - (f) the date of dispatch of at least the first load in the consignment.

Note: The licensee may nominate the dates of dispatch of as many loads as is feasible. This should be discussed with the consignee and will depend on the predictability of the rate of generation of the waste and the likelihood of the need for amendments to the dates nominated. If the waste is predictable, a schedule may be able to be submitted for the entire consignment, however if it is unpredictable, the date of only one future load may be able to be determined at a time (see also O5.9 about amending notified dates).

Note: The requirement for a written application for a consignment authorisation number does not preclude preliminary contact to obtain quotes and/or advice. Such preliminary contact does not require the formal provision of the above information that need only be supplied in the formal application.

- O5.5 Once an application for a consignment authorisation number, as set out in O5.4 has been submitted, the licensee must not submit an application for the same consignment to another consignee until notification is received concerning the outcome of the application.

Notification of dates of dispatch of the second and subsequent loads in a consignment

- O5.6 The licensee must provide the consignee with written notification of the date of dispatch of each load of waste.
- O5.7 The notification referred to in O5.6 must be received by consignee no later than the date of arrival of the preceding load at the destination.

Notification of a final load in a consignment.

- O5.8 Unless the movement of an entire consignment of waste occurs in a single load, by the time the final load in a consignment is accepted at the destination, the licensee must have informed the consignee in writing, that no further loads are to be dispatched under that consignment authorisation number.

Note: The notifications referred to in conditions 05.6 and 05.8 may be attached to the waste data form of the preceding load.

Amendments to the nominated date(s) of dispatch

- O5.9 If the date of dispatch for a load of waste is changed, the licensee must give written notification of this to the consignee and nominate a revised date of dispatch.

- O5.10 A notification referred to in 05.9 must occur on or before the date of delivery as previously nominated.

Note: More than one amendment to dates of dispatch may occur.

Cancellation of consignment authorisations

- O5.11 If the licensee determines that the delivery of a consignment of waste is to be discontinued for any reason, the consignee must be notified in writing before the nominated date of dispatch of the next expected load.

Notification of delayed delivery by transporter

- O5.12 If the licensee receives written notification from a transporter who removed waste from the premises specifying a revised date of delivery to the destination which is more than 7 days after the date of dispatch, the licensee must note and record that date.

Record keeping

- O5.13 The licensee must record and retain all information related to each consignment of waste.

Note: This includes waste data forms and copies of other documents such as notifications of revised delivery dates, regular and other reports, etc.

- O5.14 The records referred to in 05.13 must be kept so that:
- (a) all records relating to individual consignment authorisation numbers are kept physically together;
 - (b) consignments transported by each transporter can be readily identified and accessed; and
 - (c) consignments sent to each destination can readily be identified and accessed.

Note: The licensee must keep all information for at least 4 years.

Exception reporting

- O5.15 The licensee must notify the EPA, in writing, within 48 hours of becoming aware of any suspected breaches of the Act, the Protection of the Environment Operations (Waste) Regulation 1996 or this licence.

- O5.16 The licensee must notify the EPA in writing within 48 hours of becoming aware of any of the following:
- (a) the refusal by a person to whom the licensee has applied for a consignment authorisation number in accordance with 05.4 to issue such a number;
 - (b) the refusal of a transporter to transport waste after arriving at the licensee's premises for the purposes of transporting that waste;
 - (c) a transporter who transports, or attempts to transport, waste without a waste data form completed to the extent required;
 - (d) the refusal of a consignee to accept waste from the licensee;
 - (e) the failure of the licensee to receive written confirmation of receipt of waste from a consignee within 21 days of dispatch, or where a transporter has provided written notification of a revised date of delivery as set out in 05.12 within 21 days of that date;
 - (f) the notification by a transporter of a revised date of delivery which is more than 90 days after the date of dispatch of the waste.

Note: The EPA should be notified of exception reports by sending a facsimile to:
Manager, Hazardous Waste Regulation
NSW Environment Protection Authority

O6 Monitoring of interstate movements of controlled wastes

O6.1 Conditions O6.2 to O6.11 apply to the movement of the types of hazardous and/or industrial and/or Group A waste as listed in L5.3, into and out of NSW.

Note: The requirements of the NEPM apply to the interstate movement of any of the wastes listed in Appendix 1 of this licence.

Classification of controlled waste

O6.2 The licensee must accurately identify the waste, in accordance with 04.1, and determine if the waste is a controlled waste within the meaning of the NEPM.

Note: The waste producer must check with the agency in the State or Territory of destination to determine whether waste is classified as a controlled waste under the NEPM. Unless advised otherwise by the agency of the State or Territory of destination, any waste included in Appendix 1 of this licence is a controlled waste for the purposes of the NEPM.

Application for a consignment authorisation

O6.3 If the waste is transported from the premises to another participating State or Territory, the licensee must comply with all conditions attached to the consignment authorisation issued by an agency or a facility delegated by an agency in the destination State or Territory.

Note: The waste producer is required by the Protection of the Environment Operations (Waste) Regulation 1996 to obtain, prior to the waste being dispatched, a consignment authorisation from an agency, or a facility delegated by an agency, in the destination State or territory to allow the movement of controlled waste.

Waste movements

O6.4 If the waste is transported from the premises to another participating State or Territory, the licensee must ensure that the waste is transported to a place that can lawfully be used as a waste facility for that waste.

O6.5 The licensee must ensure that the waste transporter is licensed as required by the agency of each participating State or Territory through which the waste is transported.

O6.6 The licensee must:

- (a) retain a copy of the waste transport certificate for the waste for a period of not less than 4 years from the time the form was completed, and
- (b) make the copy of the waste transport certificate available for inspection by an authorised officer on request.

Note: The waste producer is required by the Protection of the Environment Operations (Waste) Regulation 1996 to complete a waste transport certificate for the waste. This should be done in accordance with the instructions printed on the certificate and the required copy of the waste transport certificate should be forwarded to the agency in the State of destination.

Notification of delayed delivery by transporter

O6.7 If the licensee receives written notification from the transporter who removed waste from the licensee's premises specifying a revised date of delivery to the destination which is more than 7 days after the date of dispatch, the licensee must note and record that date.

Record keeping

O6.8 The licensee must record and retain all information related to each consignment of waste.

Note: This includes the waste transport certificates and copies of other documents such as consignment authorisations issued by an agency in the destination State or Territory, notifications of revised delivery dates by transporters, regular and other reports, etc.

O6.9 The records referred to in 06.8 must be kept so that:

- (a) all records relating to each consignment authorisation are kept physically together;
- (b) consignments transported by each transporter can be readily identified and accessed, and
- (c) consignments sent to each destination can readily be identified and accessed.

Note: The licensee must keep all information for at least 4 years.
Exception reporting

- O6.10 The licensee must notify the EPA in writing within 48 hours of becoming aware of a suspected breach of the Act, the Protection of the Environment Operations (Waste) Regulation 1996 or this licence.
- O6.11 The licensee must notify the EPA in writing within 48 hours of becoming aware of any of the following:
- (a) the refusal by an agency, or facility delegated by an agency, in participating State or Territory to whom the licensee has applied for a consignment authorisation in accordance with 06.3, to issue such an authorisation;
 - (b) the refusal of a transporter to transport waste after arriving at the licensee's premises for the purposes of transporting that waste to another participating State or Territory to the extent required;
 - (c) a transporter who transports, or attempts to transport, waste to another participating State or Territory without a waste transport certificate completed to the extent required;
 - (d) the refusal of a destination in another participating State or Territory to accept from the licensee waste for which a consignment authorisation has been issued;
 - (e) the failure of the licensee to receive written confirmation of receipt of waste from a destination in another participating State or Territory within 28 days of dispatch.

Note: The EPA should be notified of exception reports by sending a facsimile to:
Manager, Hazardous Waste Regulation
NSW Environment Protection Authority

R4 Regular reporting of transportation of certain wastes within NSW

- R4.1 Conditions R4.2 to R4.5 apply to the transport of hazardous and/or industrial and/or Group A waste within NSW.

Regular reporting

- R4.2 The licensee must supply to the EPA, for each transporter that transported waste from the licensee's premises, the information as set out in Appendix 2, table 1.
- R4.3 The licensee must supply to the EPA, for each destination within NSW which received waste from the licensee, the information as set out in Appendix 2, table 2.

Reporting periods

- R4.4 Reports to the EPA in accordance with R4.2 and R4.3 shall be supplied on or before:
- (a) 30 April for the reporting of information relating to wastes transported from the premises between 1 January and 31 March of that year;
 - (b) 31 July for the reporting of information relating to wastes transported from the premises between 1 April and 30 June of that year;
 - (c) 31 October for the reporting of information relating to wastes transported from the premises between 1 July and 30 September of that year;
 - (d) 31 January for the reporting of information relating to wastes transported from the premises between 1 October and 31 December of the previous year.

Note: The EPA should be notified of exception reports by sending a facsimile to:
Manager, Hazardous Waste Regulation
NSW Environment Protection Authority

Nil reports

- R4.5 If waste has not been transported from the premises in any reporting period as set out in R4.4 the EPA must be advised in writing by the licensee, by the dates referred to in R4.4 in lieu of reporting as required in R4.2 and R4.3.

R5 Regular reporting of interstate movements of controlled wastes

- R5.1 Conditions R5.2 to R5.5 apply to the movement of hazardous and/or industrial and/or Group A waste as listed in L5.3, into and out of NSW.

Note: The requirements of the NEPM apply to the interstate movement of any of the wastes listed in Appendix 1 of this licence.

Regular reporting

R5.2 The licensee must supply to the EPA, for each transporter that transported waste from the premises to a destination in another participating State or Territory, the information as set out in Appendix 2, table 3.

Reporting periods

R5.3 Reports to the EPA in accordance with R5.2 shall be supplied on or before:

- (a) 30 April for the reporting of information relating to wastes transported from the premises between 1 January and 31 March of that year;
- (b) 31 July for the reporting of information relating to wastes transported from the premises between 1 April and 30 June of that year;
- 31 October for the reporting of information relating to wastes transported from the premises between 1 July and 30 September of that year;
- (d) 31 January for the reporting of information relating to wastes transported from the premises between 1 October and 31 December of the previous year.

Nil reports

R5.4 If waste has not been transported from the premises in any reporting period as set out in R5.3, the EPA must be advised in writing by the licensee, by the dates referred to in R5.3 in lieu of reporting as defined in R5.2.

Interstate transport of controlled wastes

R5.5 The licensee must comply with the requirements of the NEPM.

APPENDIX A

SCHEDULE OF LANDⁱⁱⁱ

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
Gas Well WG 1	242/10469714450
Gas Well WG 2	2342/10469714450
Gas Well WG 3	2342/10469714450
Gas Well WG 4	241/10469714450
Gas Well WG 5	2342/10469714450
Gas Well WG 6	2342/10469714450
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
Gas Gathering System – Glenlee	1102/883495, 1101/883495
Gas Gathering System – Wanderingong	2341/10469714450 , 242/10469714450
Gas Gathering System – Rosalind Park	2/622362, 3/622362, PT35/230946, 58/632328
Gas Gathering System – EMAI	1/130288, 1/726446, 11/658458, PT1/168893
<u>Gas Gathering System – Landcom</u>	<u>2/790254, X/378264,</u> <u>D/19853, 2/737485</u>
<u>Gas Gathering System – Campbelltown Council</u>	<u>3/236059, 7/787284,</u> <u>1/249393</u>

FACILITY	PROPERTY DP NUMBER
<u>Water Storage Tank – Campbelltown Council</u>	<u>2/236059</u>
<u>Gas Gathering System – Wollondilly Shire Council</u>	<u>Road Reserve</u>
Gas Treatment Plant	PT35/230946

APPENDIX B

SCHEDULE OF FIGURES^{iv}

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 – ~~Location of Access Roads within the EMAI Amendment to EMAI Access Road (18-11-2004 Map Ref M240329); and~~
- Figure 4 - Sydney Gas Camden Gas Project Stage 2 – ~~Location of Gas Gathering System within the EMAI Amendment to EMAI Gathering System (18-11-2004 Map Ref M240328).~~

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 Wildscapes 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;
- (xxxi) 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".

ⁱ [Modification Application \(MOD-72-7-2004-i\) – Approved 27 August 2004.](#)

ⁱⁱ [Ditto.](#)

ⁱⁱⁱ [Ditto.](#)

^{iv} [Modification Application \(MOD-5-1-2005\) – Approved 14 February 2005.](#)

^v [Modification Application \(MOD-43-3-2005\) – Approved 8 June 2005.](#)