

Rehabilitation and Landscape Management Sub Plan

Camden Gas Project
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1. Introduction

An Environmental Management Plan (EMP) has been prepared for the AGL Upstream Investments Pty Ltd (AGL) Camden Gas Project ('the project' or 'CGP'). This Rehabilitation and Landscape Management Sub Plan (RLMSP) has been prepared to supplement the EMP.

The EMP includes a description of the CGP and the overall environmental management framework for the CGP. This RLMSP has been developed to specifically address and manage landscape and rehabilitation issues for the operation and rehabilitation of the CGP.

The construction phases for the existing development consents listed have been completed, and the CGP is a mature operating field. Note: All historical references to construction activities have been retained in this plan for completeness and to document compliance with Licence and Development Consent requirements.

1.1 Objectives

The objectives of the RLMSP are to avoid unauthorised disturbance to land use or damage to infrastructure, to prevent the introduction and dispersal of noxious weeds, pathogens and pest species and to minimise the impacts to the visual characteristics of the Project area.

On completion of operational activities, sites will be rehabilitated in consultation with the landowner and in accordance with Project Approvals and the Petroleum Operations Plan (POP).

In order to achieve these objectives AGL will:

- Promptly carry out rehabilitation activities to promote vegetation regrowth in disturbed work areas to a standard consistent with the surrounding area.
- Monitor and maintain vegetation cover to ensure that it is consistent with the surrounding environment in consultation with the landowner.
- Promote and maintain regrowth of vegetation.
- Prevent the introduction and dispersal of noxious weeds, pathogens and pest species.
- Monitor well compounds, access roads, and gathering line routes for 12 months (or until landowner signs off) following rehabilitation to ensure that areas remain free of weeds, pathogens and pest species.
- Minimise the impacts to the visual characteristics of the project area.
- Avoid unauthorised disturbance to land use or damage to infrastructure.

1.2 Targets

- Close out of identified weed issues as soon as reasonably practicable;
- Zero complaints from landowners relating to vegetation cover or weed growth;
- Zero complaints received from local residents relating to visual impacts; and
- Zero complaints received from landowners relating to land disturbance or infrastructure.



1.3 Responsibilities

The roles and responsibilities for implementing this RLMSP are summarised in **Table 1.1**. Further responsibilities are assigned to individual roles in **Table 3-2** and **Section 4.1**.

Table 1.1: Roles and responsibilities

Role	Responsibility
Field and Rehabilitation Operator	<ul style="list-style-type: none"> • Responsible for implementing site specific recommendations as required. • Responsible for ensuring that all employees and contractors under their control are familiar with and adhere to the requirements of the RLMSP. • Responsible for landowner consultation with assistance from the Environment Business Partner in addressing landowner rehabilitation requirements and complaints.
All employees/ contractors	<ul style="list-style-type: none"> • Responsible for following the induction requirements that arise from their work activities onsite, so as to minimise the environmental impact.
Rehabilitation Manager/ All leaders	<ul style="list-style-type: none"> • Responsible for ensuring that all works under their control are undertaken in accordance with the RLMSP. • Responsible for ensuring that all employees and contractors under their control are familiar with and adhere to the requirements of the RLMSP.
Environment Business Partner	<ul style="list-style-type: none"> • Informing site personnel of the rehabilitation management procedures through the induction program. • Responsible for monitoring procedures and reporting as required by this RLMSP. • Review and update the RLMSP following modifications to Project Development Approvals or new Development Approvals.
Operations Superintendent	<ul style="list-style-type: none"> • Responsible for monitoring procedures and reporting as required by this RLMSP. • Directly responsible for the implementation of this RLMSP.

2. Requirements

2.1 Key licence/development consent requirements

Table 2.1: Key licence/development consent requirements

Reference	Requirement	Section of this Management Plan
Site Rehabilitation		
DA 15-1-2002: 72, 73 (Sch 3) DA 246-8-2002-i: 29, 30 (Sch 3) DA 282-6-2003i: 120-1 (Sch 4)	<p>Site Rehabilitation</p> <p>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.</p> <p>The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DPI and the Site Rehabilitation Management Plan.</p>	Item 3 in Table 3.2 (Section 3.6).
DA-9-1-2005: 26 (Sch 2)	<p>26. The Applicant shall provide landscaping around the well heads using appropriate species, in consultation with the landowner.</p> <p>Note: All works required by this condition have been completed.</p>	Section 3-1 Item 3 in Table 3.2 (Section 3.6)
DA 282-6-2003i: 124-5 (Sch 4)	<p>124. The Applicant shall stabilise and rehabilitate as soon as possible all disturbed soil surfaces with sterile exotic cover crops and local native grasses. The Applicant is not permitted to use Kikuyu and other invasive grass species.</p> <p>125. The Applicant shall maintain and monitor all rehabilitated riparian zones for a period of at least two years after final planting. Maintenance must include sediment and erosion control, watering, weed control, replacement of plant losses, disease and insect control, mulching and any other requirements for achieving successful vegetation establishment.</p> <p>Note: The Director-General may require the Applicant to prepare and implement a Vegetation Management Plan and remedial works if disturbance is deemed excessive.</p> <p>Note: All works required by these conditions have now been completed.</p>	Table 3-2 (Section 3.6). Item 6 of Table 3.2 (Section 3.6)

Reference	Requirement	Section of this Management Plan
DA-183-8-2004i: SOC 48, 49	<p>48. The Proponent shall progressively rehabilitate the MP25 well surface location and any other parts of the site impacted by the development to the satisfaction of the Director-General and Department of Planning and Environment, unless agreed otherwise, and in consultation with the landowner.</p> <p>49. The Proponent shall consult with the landowner regarding the method of closure and rehabilitation for the twinned GGL between MP16 and MP30.</p> <p>Note: All works required by these conditions have been completed.</p>	Section 3; and Table 3.2 Item 6 in Table 3.2 (Section 3.6)
Petroleum Production Leases 1, 2, 4, 5 and 6, Schedule A, Condition 5	Disturbed land must be rehabilitated to a sustainable/ agreed end land use to the satisfaction of the Director General.	Item 6 in Table 3.2 (Section 3.6).
Rehabilitation Management Plan		
DA 15-1-2002: 25 (Sch 3)	<p>Site Rehabilitation Management Plan</p> <p>25. The Applicant shall prepare and implement a Site Rehabilitation Management Plan for the whole site. This plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> a) details of the staging and timing for rehabilitation works; b) on-going management strategies to ensure the success of rehabilitation works; c) details of the establishment of vegetation and all landscaping to be undertaken including flora species, location of grassed areas, garden beds and other vegetated areas, and mature height and width measurements of all flora species; and d) the measures to remediate sites following the decommissioning of the wells, pipelines and treatment plant. 	Section 3 Table 3.2 (Section 3.6)
PA 06_0137: 16-17 (Sch 3)	The Proponent shall progressively rehabilitate the site to the satisfaction of the Director-General, in a manner that is generally consistent with the landform of the surrounding land.	Section 3.6 Item 6 in Table 3.2 (Section 3.6)



Reference	Requirement	Section of this Management Plan
PA 06_0138: 18-19 (Sch 3)	<p>The Proponent shall prepare and implement a Rehabilitation Management Plan to the satisfaction of the Director-General. The Plan shall be submitted to the Director-General within 6 months of the date of this approval and shall:</p> <ul style="list-style-type: none"> a) identify the areas likely to be disturbed by the project; and b) describe the measures that would be implemented to rehabilitate the site. 	Table 3.2 (Section 3.6) Item 1 in Table 3.2 (Section 3.6)
PA 06_0291: 1 (Sch 3)	<p>1. Prior to construction commencing at an individual well surface location, the Proponent shall submit a Site Layout Plan of the well surface location to the satisfaction of the Director-General. The Site Layout Plan must be prepared in consultation with the landowner and include details of:</p> <ul style="list-style-type: none"> a) the site construction layout and construction footprint; b) the wellheads and production compound layout; c) the route of the gas gathering lines and access roads; and d) initial rehabilitation works following construction. 	Item 1 in Table 3.2 (Section 3.6)

Reference	Requirement	Section of this Management Plan
PA 06_0291: 17-19 (Sch 3)	<p>17. The Proponent shall progressively rehabilitate the site to the satisfaction of the Director-General, in a manner that is generally consistent with the landform of the surrounding land.</p> <p>18. The Proponent shall prepare and implement a Landscape and Rehabilitation Management Plan for each well surface location to the satisfaction of the Director-General. This Plan must:</p> <ul style="list-style-type: none"> a) be prepared in consultation with the landowner by suitably qualified experts; b) be submitted to the Director-General for approval prior to commissioning; c) describe in detail the short, medium and long term measures that would be implemented to: <ul style="list-style-type: none"> i) rehabilitate the site; ii) implement planting of native vegetation; iii) manage the remnant vegetation and habitat on the site; and iv) landscape the site to mitigate visual impacts of the project; d) include a description of what measures would be implemented to rehabilitate the site; and e) details of who is responsible for monitoring, reviewing and implementing the plan. <p>This requirement can also be satisfied by the Site Layout Plan (Schedule 3, condition 1) addressing the above issues as appropriate.</p>	Table 3.2 Section 3.6 Item 1 in Table 3.2 (Section 3.6)
	<p>19. The Proponent shall consult with the landowner in the selection of fencing and other materials to be used for landscaping, to the satisfaction of the Director-General.</p>	Item 3 in Table 3.2 (Section 3.6)



Reference	Requirement	Section of this Management Plan
<p>PA 06_0291: SoC 5, 8, 9 (App 3)</p>	<p>(5) The Proponent shall provide a site layout to the Director General prior to construction of a well surface location. The site layout would include information identifying:</p> <ul style="list-style-type: none"> a) Initial rehabilitation of surplus construction footprint following completion of the construction phase. b) Rehabilitation and Landscape Concept Plan of well surface locations for the post-commissioning phase as well as following final closure of the wells. <p>(8) The Proponent shall prepare and implement a Landscape Management Plan detailing landscaping to be undertaken at well surface locations, including a maintenance program for these landscaping works. Landscaping shall be undertaken using appropriate native species.</p> <p>(9) The Proponent shall take all practicable measures to limit the potential spread of noxious weeds at the site.</p>	<p>Section 3.6</p> <p>Item 4 in Table 3.2 (Section 3.6)</p> <p>Item 1 in Table 3.2 (Section 3.6)</p> <p>Item 5 in Table 3.2 (Section 3.6)</p> <p>Item 6 in Table 3.2 (Section 3.6)</p>

Reference	Requirement	Section of this Management Plan
DA 15-1-2002: 4 and 25 (Sch 3)	<p>Special Conditions of Approval</p> <p>4. The Applicant shall submit a development application for a new treatment plan within two (2) years of the date of this consent. Upon the commissioning of the new treatment plant the Applicant shall cease production from the Ray Beddoe Treatment Plant and proceed to rehabilitate the site in accordance with the Site Rehabilitation Management Plan.</p> <p>Site Rehabilitation Management Plan</p> <p>25. The Applicant shall prepare and implement a Site Rehabilitation Management Plan for the whole site. This plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> a) details of the staging and timing for rehabilitation works; b) ongoing management strategies to ensure the success of rehabilitation works; c) details of the establishment of vegetation and all landscaping to be undertaken including flora species, location of grassed areas, garden beds and other vegetated areas, and mature height and width measurements of all flora species; and d) the measures to remediate sites following the decommissioning of the wells, pipelines and treatment plant. <p>Note: All works required by these conditions have been completed for the Ray Beddoe Treatment Plant.</p>	Item 6 in Table 3.2 (Section 3.6)
Gas Gathering Lines		
DA 15-1-2002: 68c (Sch 3) DA 246-8-2002-i: 28c (Sch 3) DA 282-6-2003i: 127b (Sch 4) DA 9-1-2005: 10b (Sch 2) DA 75-4-2005: 38b (Sch 2) PA 06_0137: 15d (Sch 3)	<p>Trenches are to be restored and reseeded with local grass seeds on completion of the work.</p> <p>Note: All works required by these conditions have been completed.</p>	Section 3.1.2; and Table 3.2 (Section 3.6). Item 3 in Table 3.2 (Section 3.6)

Reference	Requirement	Section of this Management Plan
PA 06_0137: 15h (Sch 3) PA 06_0138: 17g (Sch 3)	No crown or camber remains along any gas gathering system line, following rehabilitation. Note: All works required by these conditions have been completed.	Item 6 in Table 3.2 (Section 3.6)
DA 282-6-2003i: 123 (Sch 4)	Gas gathering stream crossings may be trenched. For all trenched crossings, the natural bed and bank profiles are to be restored to their original condition, with smooth and even surfaces, following installation of the gas pipe. Note: All works required by these conditions have been completed.	Section 3.2 Item 6 in Table 3.2 (Section 3.6)
DA 282-6-2003i: 122 (Sch 4)	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. Note: All works required by this condition have been completed.	Section 3.2 Item 6 in Table 3.2 (Section 3.6)
Vegetation and Landscape Management Plan		
DA 15-1-2002: 23 (Sch 3)	Vegetation and Landscape Management Plan (23) The Applicant shall prepare and implement a Vegetation and Landscape Management Plan for the whole site. This plan shall include, but not necessarily be limited to: a) measures to protect mature trees as part of the well drilling or gas gathering pipeline construction activities; b) details of all landscaping to be undertaken on the site; c) ensure that tree and shrub species used for landscaping of the site are indigenous to the locality; and d) details of a program to ensure that all landscaped areas are maintained in a tidy, healthy state.	Item 7 in Table 3.2 (Section 3.6)
DA 282-6-2003i: 12 (Sch 4)	The site shall be landscaped as shown on the Landscape Design and this landscaping shall be maintained for the life of the development.	Item 7 in Table 3.2 (Section 3.6)
DA 282-6-2003i: 13 (Sch 4)	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:	Table 3-2 (Section 3.6); Item 1 in Table 3.2 (Section 3.6); and

Reference	Requirement	Section of this Management Plan
	<ul style="list-style-type: none"> 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; 	<p>Item 2 in Table 3.2 (Section 3.6);</p> <p>Item 6 in Table 3.2 (Section 3.6);</p> <p>Item 7 in Table 3.2 (Section 3.6);</p>

Reference	Requirement	Section of this Management Plan
	<p>k) details of proposed screening works including supplementary planting along the border of the site with Menangle Creek;</p> <p>l) reasonable measures to minimise the impacts of the gas wells on the cultural heritage landscape of the EMAI;</p> <p>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</p> <p>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.</p> <p>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.</p>	

Reference	Requirement	Section of this Management Plan
DA 282-6-2003i: 14 (Sch 4)	<p>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:</p> <ul style="list-style-type: none"> 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 for 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. <p>The results and recommendations of the monitoring program must be submitted to the Director-General at the conclusion of each stage of monitoring.</p>	Item 7 in Table 3.2 (Section 3.6)

Reference	Requirement	Section of this Management Plan
DA 282-6-2003i: 15 (Sch 4)	<p>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.</p> <p>(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.</p>	Table 3.2 Section 3.6 Item 7 in Table 3.2 (Section 3.6)
DA-282-6-2003i: 16 (Sch 4)	<p>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.</p> <p>Note: All works required by this condition have been completed.</p>	Item 7 in Table 3.2 (Section 3.6)
DA-282-6-2003i: 17 (Sch 4)	<p>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.</p>	Item 1 in Table 3.2 (Section 3.6)

Reference	Requirement	Section of this Management Plan
<p>DA-282-6-2003i: 18, 19 (Sch 4)</p>	<p>Independent Audit</p> <p>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:</p> <ul style="list-style-type: none"> 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. <p>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.</p>	<p>Item 7 in Table 3.2 (Section 3.6)</p>

Reference	Requirement	Section of this Management Plan
<p>DA-282-6-2003i: 19A, B (Sch 4)</p>	<p>Landscape Planting Plan – Rosalind Park Access Road</p> <p>19A. The Applicant shall prepare and implement a Landscape Planting Plan for the relocated Rosalind Park access road, to the satisfaction of the Director-General. This plan must be submitted to the Director-General for approval prior to the commencement of construction, and include:</p> <ul style="list-style-type: none"> a) details of the landscaping measures along the road and visual bund; b) measures to manage and maintain the landscaping; and c) describe the construction rehabilitation measures. <p>19B. Within 6 months of completion of the landscaping and every 2 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full costs of an Independent Audit of the performance of the mitigation measures. The audit shall:</p> <ul style="list-style-type: none"> a) be conducted by a suitably qualified, experienced and independent person(s) 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 road from the Mount Gilead Homestead; c) review the adequacy of the Landscape Planting Plan; d) recommend actions or measures to improve the performance of the visual mitigation measures and the adequacy of the Landscape Planting Plan (if required); and e) be submitted and implemented to the satisfaction of to the Director-General. <p>Note: the Applicant may include this audit in the Independent Audit required under Schedule 4 Condition 18 of development consent Da-282-6-2003-I, dated 16 June 2004. The due date for a combined audit shall be the earlier of the due dates for the separate audits.</p>	<p>Item 7 in Table 3.2 (Section 3.6)</p>

Reference	Requirement	Section of this Management Plan
Weed Management		
DA-183-8-2004: 17 (Sch 2) DA-9-1-2005: 29 (Sch 2)	The Applicant is required to prepare and implement a Weed Management Plan for the sites for the life of the development. The Applicant shall submit the Weed Management Plan for the Director-General's approval within one month of the date of this consent.	Section 3.6. Item 5 in Table 3.2 (Section 3.6)
PA 06_0291: SoC 9 (App 3)	The Proponent shall take all practicable measures to limit the potential spread of noxious weeds at the sites.	Item 5 in Table 3.2 (Section 3.6)
PPL 1, 2: 9(c) (Sch) Fields – Apap, EMAI (part), Johndilo, Joe Stanley, Kay Park, Loganbrae, Lipscombe, Mahon	The lease holder must observe any instructions given by any responsible authority with a view to the eradication of noxious weeds. The lease holder must make all reasonable efforts to prevent the introduction and establishment of noxious weeds.	Item 5 in Table 3.2 (Section 3.6)
DA-75-4-2005: 42 (Sch 2)	The Applicant shall prepare and implement a Weed Management Plan for the site for the life of the development. The Applicant shall submit the Weed Management Plan for the Director-General's approval within one month of the date of this consent.	Section 3.6 Item 5 in Table 3.2 (Section 3.6)
Lighting		
DA 15-1-2002: 63 (Sch 3) DA 282-6-2003i: 5 (Sch 4)	The Applicant shall ensure that all external lighting associated with the development is mounted, screened and directed in such a manner so as to not create a nuisance to surrounding land uses. The lighting must be the minimum level of illumination necessary, and in general accordance with the Australian Standard 4282 – 1997 Control of the Obtrusive Effects of Outdoor Lighting.	Table 3.2 Section 3.6 Item 7 in Table 3.2 (Section 3.6)

Reference	Requirement	Section of this Management Plan
<p>DA 282-6-2003i: 4, 8, 11 (Sch 4)</p>	<p>4. The Applicant shall take all practicable measures to minimise any off-site lighting impacts from the development.</p> <p>8. The Applicant must ensure that wherever possible, any scheduled use of the flare occurs during daylight hours.</p> <p>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:</p> <ul style="list-style-type: none"> 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. 	<p>Item 7 in Table 3.2 (Section 3.6)</p>

2.2 Key legislative and regulatory requirements

Table 2.2 lists the applicable New South Wales and Commonwealth legislation and policies for the project.

Table 2.2: Legislation and policies

Legislation / Policy	Relevance
<i>NSW Environmental Planning and Assessment Act (EP&A Act) 1979</i>	The <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) and Regulation include provisions to ensure that proposals which have the potential to impact the environment are subject to detailed assessment, and provide opportunity for public involvement.
<i>NSW Noxious Weeds Act 1993</i>	The <i>Noxious Weeds Act 1993</i> was repealed by the <i>Biosecurity Act 2015</i> . The former act was applicable to the notification and classification of noxious weeds. The act was administered by the NSW Department of Primary Industries within the DTIRIS, Local Control Authorities (LCA) were responsible for implementing the act on private land, usually the local council.
<i>Biosecurity Act 2015</i>	<p>The objective of the <i>Biosecurity Act 2015</i> is to provide a framework for the prevention, elimination and minimisation of biosecurity risks, including pest and weed species.</p> <p>The following weed species are known to occur with the site and it's surrounds:</p> <ul style="list-style-type: none"> • African Boxthorn (<i>Lycium ferocissimum</i>) • Blackberry (<i>Rubus fruticosus</i>) • Bridal Creeper (<i>Asparagus asparagoides</i>) • Paterson's Curse (<i>Echium</i> sp.) • Broad-leaf Privet (<i>Ligustrum lucidum</i>) • Narrow-leaf Privet (<i>Ligustrum sinense</i>) • Willows (<i>Salix</i> sp.). <p>A number of other priority weeds are listed in the region, as per the NSW WeedWise Register (NSW Department of Primary industries, 2018).</p> <p>In accordance with the <i>Biosecurity Act 2015</i>, there is a duty to prevent, eliminate or minimise any biosecurity risk. Any person who deals with any plant, who knows (or ought to know) of any biosecurity risk, has a duty to ensure the risk is prevented, eliminated or minimised, so far as is reasonably practicable.</p>

3. Management

3.1 Well rehabilitation overview

The overall objective of undertaking rehabilitation at each of the well surface locations is to return the land to pre-operational land use and condition or better.

Rehabilitation of well surface locations would be undertaken in two main stages. These include:

1. Initial rehabilitation of surplus construction footprint following completion of the well drilling and construction phase to the commissioning and maintenance area; and
2. Final rehabilitation of well sites following closure of the wells.

The rehabilitation requirements for each well will be determined in accordance with the landowner, the agreement between the landowner and the company and the conditions of the development consent for the area. The surrounding land uses and options to minimise environmental impact would also be taken into consideration.

3.1.1 Initial well rehabilitation

The initial rehabilitation of surplus construction areas would be undertaken following the construction phase of the development. The initial construction footprint generally comprises a level well pad area and lined drill pit(s) with an excavated depth of approximately 2 to 3 metres.

Once the well has been drilled, stimulated, completed and production testing has been undertaken, surplus construction areas would be rehabilitated, and the construction footprint surrounding the well would be reduced to the commissioning (which includes dewatering) and maintenance area.

Typically, only the immediate wellhead infrastructure and equipment required for well commissioning would remain at the well surface location. The initial stage of rehabilitation works would include:

- Backfilling excavated areas such as drill pits which are no longer required as part of operation; and
- Rehabilitation, contouring, and re-vegetating disturbed areas surrounding well surface locations using stockpiled soil.

3.1.2 Closure and final well rehabilitation

Upon completion of gas production operations, closure of the wells and rehabilitation of the well sites and gas gathering systems would be undertaken. Wells are expected to operate for approximately 15 years, therefore the closure and final rehabilitation of well surface locations would typically not occur until this time.

The final stage rehabilitation works would typically include:

- Removing plant and equipment from well surface locations and removal of fenced compounds;
- Filling in excavated areas and trenches;
- Sealing/ plugging and abandonment of wells generally in accordance with the NSW Code of Practice for Coal Seam Gas Well Integrity;
- Lightly ripping disturbed areas; and
- Rehabilitation, contouring, and re-vegetating disturbed areas. Re-vegetating would include broadcast of seed and ongoing maintenance and monitoring activities to ensure successful vegetation cover is promptly established.

In order to prevent impact on future mining, the PPL conditions require removal of the steel pipe/casing from the coal seam and to log the location of the well. These activities would be undertaken during the closure and rehabilitation of a well surface location unless otherwise agreed to by DPI&E-MEG.

Final rehabilitation will be undertaken in consultation with and to the satisfaction of the DPI&E-MEG and EPA. Site Specific Rehabilitation Completion Criteria will be developed in consultation with the landowner and the DPI&E-MEG and EPA to ensure that final rehabilitation is thorough and effective. Monitoring is undertaken to ensure final rehabilitation has been successful. Such monitoring methods will be determined based on the land use type and the selected rehabilitation model.

3.2 Rehabilitation of gas gathering lines

The preferred method of final rehabilitation for the gas gathering system would be to purge with air or water in order to remove remaining gas, seal and then leave the valuable infrastructure in position for future beneficial use and to prevent any further environmental disturbance. All gas gathering line marker posts would be removed from the surface.

The rehabilitation method for the gas gathering lines would be subject to consultation with the landowner. Should removal of the gas gathering system be required, the excavated trench would be backfilled and rehabilitated, including contouring and re-vegetation, the same as the initial rehabilitation following installation of the gathering lines.

3.3 Rehabilitation of access roads

Private roads and tracks used during operations will be returned to their pre-operations state, or to a condition agreed by the landholder. As the urban development proceeds within the locality and new roads are provided, requirements for, and location of access roads may vary. The Proponent will work with this to adapt to the evolving nature of road development and access provision in the locality.

3.4 Rehabilitation of gas plants

Rehabilitation of the Rosalind Park Gas Plant is planned to take place in 2023. As AGL progresses closer to this date, a site specific rehabilitation plan will be developed in consultation with the landowner.

3.5 Rehabilitation models

The typical rehabilitation models used for different land use types are described in the **Table 3.1**. The rehabilitation for each site is to be completed in line with the relevant development consent conditions and in consultation with the landowner to fit generally with the surrounding area.

Table 3.1: Rehabilitation models

Land use	Rehabilitation Goal/ Model/ Objective	Description of Rehabilitation Works
Rural	Pasture (or Cultivation Paddock)	Area will be re-vegetated using a pasture seed blend in consultation with the Landowner. If exotic species are used, the seeds will be sterile. (In circumstances where the landowner takes responsibility for revegetation works, this rehabilitation model is referred to as 'Rural: Cultivation Paddock')

Land use	Rehabilitation Goal/ Model/ Objective	Description of Rehabilitation Works
	Native Tree Re-vegetation	Area will be re-vegetated with a pasture seed blend in consultation with the landowner. Native local trees will also be planted at a density consistent with the surrounding area.
Industrial	Return to pre-existing state	Landform and area will be reinstated to a condition equal to or better than it was prior to AGL construction works commencing in consultation with the landowner.
Urban/Residential	Specific goal to be confirmed depending on sub-category of urban use (e.g. park, streetscape, commercial etc)	Area to be re-vegetated and/or landscaped consistent with the surrounding area in consultation with the Landowner.

All of the above is subject to the relevant License/ Development Consent conditions.

3.6 Management measures

The landscape and rehabilitation management strategies in **Table 3.1** generally apply after the construction activities of the project are finished. They are designed to meet and fit in with site specific recommendations from the various Environmental Assessments and consents for the project.

It should be noted that the measures outlined in **Table 3.2** relating to weed management have been included in this RLMSP to address the requirement to prepare a Weed Management Plan (see **Section 2.1**) as part of the CGP.

Table 3.2 summarises the measures to be implemented to manage potential landscape and rehabilitation issues and outlines responsibilities for their implementation.

Table 3.2: Landscape and rehabilitation management measures

Activity	Action	Responsibility
1 General	a) The induction program shall inform all employees and contractors about rehabilitation management measures, control procedures for weeds, pathogens and pest species and the designated work areas and access routes and procedures.	Environment Business Partner
	b) This RLMSP must be submitted to the Director General within 6 months of development approval, is to be approved by the Director General and shall be fully implemented across the CGP.	Environment Business Partner

Activity	Action	Responsibility
	<p>c) Prior to construction commencing at Spring Farm and Menangle Park well surface locations, a site layout plan shall be prepared in consultation with the land owner to be submitted to the Director General. It will include construction layout and footprint, wellheads and production compound layout, route of gas gathering lines and access roads, and initial rehabilitation works following construction. It shall also include a Rehabilitation and Landscape Concept Plan of well surface locations for the post-commissioning phase as well as following final closure of the wells.</p>	<p>Environment Business Partner / Manager Asset Property Services</p>
	<p>d) Vegetation and Landscape Management Plan for the Gas Treatment Plant site and the gas well sites shall include: details of an irrigation system for trees on the site, methods in establishing of trees on cut batters if excavated surfaces are not conducive to planting vegetation displayed in the landscape design, provisions for monitoring tree health, measures to minimise heritage impacts of gas wells, and details of monitoring program to affect effectiveness of visual impact mitigation measures.</p>	<p>Environment Business Partner</p>
	<p>e) All operations activities including rehabilitation and maintenance shall be restricted to the compound area or designated gathering line corridor and designated access routes (where possible).</p>	<p>Operations Superintendent</p>
	<p>f) Trees within an area marked "A" on the Applicants map, may be lopped and trimmed as necessary if the holder requests the applicant in writing, in return to refrain from clear felling of those trees within 5 years of the date of consent (refer to DA-282-6-2003i: 17 (Sch 4) in Table 2-1).</p>	<p>Environment Business Partner</p>
<p>2 Visibility</p>	<p>a) For well surface locations where residents may be exposed to extended periods of uninterrupted views during construction, green mesh or other appropriate fencing is to be erected around the construction compound in accordance with the recommendations of the relevant EA or Site Plan.</p>	<p>Environment Business Partner</p>

Activity	Action	Responsibility
	b) The Vegetation and Landscape Management Plan for the Gas Treatment Plant site and the gas well sites shall include details of the visual appearance of all new buildings. New buildings will be constructed in a way that is to be of neat and orderly appearance and blend with surrounding landscape. It will also include measures to minimise visual impacts on Mount Gilead Homestead including monitoring of the Annual Environmental Performance Report and remedial measures will be identified.	Environment Business Partner
3 Initial Rehabilitation	a) Stabilisation and rehabilitation shall be undertaken as soon as works are complete, in consultation with the landowner, using sterile exotic crops and local native grasses. No kikuyu and other invasive grass species will be used. b) All rehabilitation works would be undertaken with maximum regard to environmental protection and rehabilitation, vegetation, subsoil and topsoil management, weed control, erosion and sedimentation management and re-vegetation in accordance with the requirements of the Office of Coal Seam Gas, the EMP and this Sub Plan. c) Earthworks, vegetation clearing and soil disturbance would be limited to the construction and operational footprint as appropriate. d) Existing vegetation will be maintained wherever possible. e) Native screen trees may be planted around the well site using appropriate species in consultation with the landowner. f) All waste materials and equipment shall be removed from the area once backfilling and tie-ins are completed. g) Sediment control measures shall be implemented where necessary to prevent erosion and water contamination. (See Soil and Water Management Sub Plan). h) Areas to be rehabilitated shall be graded to reinstate pre-existing surface contours and natural drainage patterns. i) All fences which were cut and replaced by gates during operations shall be repaired to at least the equivalent pre-operations condition, unless permanent gates or other arrangements are agreed with the landholder.	Environment Business Partner / Field and Rehabilitation Operator

Activity	Action	Responsibility
	<ul style="list-style-type: none"> j) Selection of fencing and other materials used for landscaping shall be undertaken in consultation with the landowner to the satisfaction of the Director-General (where required). k) Initial rehabilitation of the well construction compound and gas gathering lines is to be consistent with the established character of surrounding land. l) All flagging and bunting installed for environmental or safety reasons shall be removed. 	
4 Stockpiles	<ul style="list-style-type: none"> a) Cleared vegetation shall be stockpiled separately for subsequent re-spreading within the compound during site rehabilitation. b) Disturbed areas shall be progressively rehabilitated as soon as practicable. 	Environment Business Partner / Field and Rehabilitation Operator)
5 Weed and Pathogen control and monitoring	<ul style="list-style-type: none"> a) A weed management plan shall be prepared, submitted to the Director-General within one month of the date of consent, and implemented for the life of the development. b) The well site, restored access tracks and gathering line routes shall be inspected for 12 months (or until landowner signs off) following the completion of rehabilitation, for evidence of soil settlement, weeds and pest animals. c) Active weed control shall be required at sites identified as infested for at least one year after construction. Additional appropriate control measures shall be utilised after this time, on the basis of monitoring results. d) Herbicides are to be used to kill noxious weeds. Drift, drip or run-off to surface waters or non-target species is to be avoided. Personnel using herbicides are to be appropriately trained and qualified. e) All instructions provided by any responsible authority (with respect to the eradication of noxious weeds) shall be observed, and all reasonable efforts shall be made to implement measures to prevent the introduction and establishment of noxious weeds. f) On first (and subsequent) entry to the District and prior to entering the construction area all vehicles, equipment and portable infrastructure shall be washed by air or water or demonstrated they are clean (namely, certificate/or other document to show they have been cleaned down), prior to coming to site. This shall be done prior to mobilisation to site. 	Environment Business Partner / Field and Rehabilitation Operator

Activity	Action	Responsibility
	<ul style="list-style-type: none"> g) Cleaning shall be thorough so as to remove all soil or organic matter from the surfaces of vehicles, equipment and portable infrastructure, including the undercarriage. h) Topsoil and vegetation material shall be re-spread in the immediate vicinity of the area of origin to limit the potential spread of weeds and pathogens. i) All plant and equipment shall be inspected and be free of invertebrates and pest species prior to coming on site. j) Waste management shall be implemented to avoid attracting vertebrate pests (see Waste Management Sub Plan). 	
6 Final Rehabilitation	<ul style="list-style-type: none"> a) All rehabilitation works would be undertaken with maximum regard to environmental protection and rehabilitation, vegetation, subsoil and topsoil management, weed control, erosion and sedimentation management and re-vegetation in accordance with the EMP and this Sub Plan. b) Earthworks, vegetation clearing and soil disturbance would be limited to the construction and operational footprint as appropriate. c) Existing vegetation will be maintained wherever possible. d) If removal of the gas gathering system is required, the excavated trench would be backfilled and rehabilitated, including contouring and re-vegetation. e) All areas associated with the construction and operation of the gas gathering system shall be rehabilitated to the pre-existing site conditions unless otherwise agreed by the landowner. f) Final rehabilitation is to be completed in accordance with the Site Specific Rehabilitation Completion Criteria to the satisfaction of the Director-General, DPI&E-MEG and EPA, in consultation with the landowner, and in a manner that is generally consistent with the landform of the surrounding land. g) Re-vegetating would typically include but not be limited to broadcast of seed and ongoing maintenance and monitoring activities for 12 months minimum or until landowner signs off. h) For all trench crossings, the natural bed and bank profiles shall be restored to their original condition with smooth and even surfaces following installation of the gas pipe. 	Environment Business Partner / Field and Rehabilitation Operator

Activity	Action	Responsibility
	<ul style="list-style-type: none"> i) Stabilisation and rehabilitation shall be undertaken as soon as works are complete, using sterile exotic crops and local native grasses. No kikuyu and other invasive grass species will be used unless approved by the landowner. j) All private tracks used during operations will be returned to their pre-operations state, or to a condition agreed by the landholder. k) Site rehabilitation shall protect any remnant local native riparian vegetation and restore riparian zones affected by the work in accordance with the conditions and plans. l) Rehabilitated riparian zones shall be monitored and maintained for at least two years after final planting. m) Maintenance shall include watering, weed control, replacement of plant losses, disease and insect control, mulching etc. n) No crown or camber shall remain along any gas gathering system line following rehabilitation. 	
7 Rosalind Park Gas Plant / Access Road	<ul style="list-style-type: none"> a) A Vegetation and Landscape Management Plan shall be prepared and implemented. It shall detail landscaping to be undertaken at well surface locations including a maintenance program for landscaping, measures to protect mature trees, ensuring that tree and shrub species used for landscaping of the site are indigenous to the locality, and details that ensure all landscaped areas are maintained in a healthy, tidy state. 	Environment Business Partner
	<ul style="list-style-type: none"> b) The Vegetation and Landscape Management Plan shall be submitted and approved by the Director-General prior to commencement of construction on the Gas Treatment Plant site. Note: This Action is complete. c) A Landscape Planting Plan shall be prepared and implemented for the relocated Rosalind Park access road, to be submitted to the Director-General prior to the commencement of construction. It shall be prepared in accordance with the requirements detailed in DA-282-6-2003i: 19A, B (Sch 4) (refer to Table 2-1). Note: This Action is complete. d) All visual mitigation measures regarding screening intended to hide infrastructure from views from the Mt Gilead Homestead (e.g. through planting) shall be undertaken. 	<ul style="list-style-type: none"> Environment Business Partner Environment Business Partner Environment Business Partner

Activity	Action	Responsibility
	<p>e) The right to implement any necessary mitigation or screening measures proposed for the Gas Treatment Plant as part of the Vegetation and Landscape Management Plan on land outside the Gas Treatment Plant site (for the life of the development) shall be secured prior to construction.</p> <p>Note: This Action is complete.</p>	Environment Business Partner
	<p>f) Existing trees shown on the Landscape Design adjacent to the southern boundary of the Gas Treatment Plant site, shall be retained (in a healthy condition) and will not be lopped or trimmed unless advised by an independent arborist and approved by the Director- General for safety reasons.</p>	Environment Business Partner
	<p>g) An independent audit of the mitigation measures (implemented to prevent and minimise visual impacts of the proposal including landscaping, preservation of existing trees, effectiveness of mitigation measures in screening from the Mount Gilead Homestead, and night- lighting effects) shall be undertaken within 6 months of the commissioning of the proposed development and every 2 years thereafter, unless the Director-General directs otherwise. The audit will also involve reviewing and making recommendations on the Landscape Management Plan (if required). It will be prepared in accordance with the requirements outlined in DA-282-6-2003i: 18, 19 (Sch 4) and shall be submitted to the Director-General within 2 months of the commissioning of the audit (refer to Table 2-1). A copy of the audit (and/or results of and recommendations of monitoring) will also be provided to the owner of Lot 1 DP 807555 by the Director-General upon request.</p>	Environment Business Partner
	<p>h) The site shall be landscaped as shown on the Landscape Design and this landscaping shall be maintained for the life of the development.</p>	Environment Business Partner
	<p>i) As part of an independent audit required, the Vegetation and Landscape Management plan shall provide details of a monitoring program. Monitoring shall be carried out pursuant to the monitoring program every 6 months for the first two years of planting and every 2 years thereafter by an independent arborist and include the features outlined in DA 282-6-2003i: 14 (Sch 4) (refer to Table 2-1). The results and recommendations of the monitoring program shall be submitted to the Director- General at the conclusion of each stage of monitoring.</p>	Environment Business Partner

Activity	Action	Responsibility
	j) A Landscape and Lighting Assessment will be conducted of the RPGP every two years. Landscaping will be conducted in accordance with the Vegetation and Landscape Management Plan.	Environment Business Partner
	k) Continued monitoring and review will be conducted to ensure the Vegetation and Landscape Management Plan outcomes and objectives are achieved.	Environment Business Partner
	l) All external lighting associated with the development shall be mounted, screened and directed in such a manner so as to not create a nuisance to surrounding land uses. The lighting will also be the minimum level of illumination necessary, and in general accordance with the Australian Standard 4282 – 1997 Control of the Obtrusive Effects of Outdoor Lighting.	Environment Business Partner
	m) All practicable measures will be undertaken to minimise any off-site lighting impacts from the development.	Environment Business Partner
	n) Where possible, the scheduled use of flares shall be restricted to daylight hours.	Operations Superintendent
	o) The frequency of the operation of the flare will be recorded and this information shall be made available for inspection by the Director-General on request. The records will be undertaken in accordance with the necessary requirements detailed in DA 282-6-2003i: 4, 8, 11 (Sch 4) (refer to Table 2-1).	Operations Superintendent

4. Monitoring and reporting

4.1 Monitoring requirements

Rehabilitation and landscape monitoring requirements for CGP include the following:

- **Environment Business Partner** to:
 - inspect the well site, restored access tracks and gathering line routes for 12 months* following the completion of initial and final rehabilitation, for evidence of soil settlement weeds and pest animals. Additional rehabilitation maintenance works to be completed (as necessary) during the 12 month* period following the completion of rehabilitation.
- **Environment Business Partner** and **Field and Rehabilitation Operator** to inspect the rehabilitated area at the expiry of the 12 month* initial and final rehabilitation periods to ensure the site has been rehabilitated to meet AGL's and the landowner's standard.
- **Field and Rehabilitation Operator** to consult with the Landowner on the rehabilitation.
- **Field and Rehabilitation Operator** to confirm landowner acceptance of final rehabilitated land through the AGL Landowner Rehabilitation Sign-Off Form at the end of works.

*Note – Monitoring for a period of 12 months following the completion of rehabilitation is subject to consultation between AGL, the Landowner, DPI&E-MEG and the EPA. Depending on weather conditions and Landowner requirements, the 12 month period may be reduced or extended accordingly to ensure that the site is appropriately rehabilitated.

4.2 Reporting requirements

The **Environment Business Partner** is responsible for reporting on rehabilitation performance in the CGP Annual Environmental Performance Report.

The **Environment Business Partner** is responsible for completing the Environmental Management Sub Plan Compliance Audit – Rehabilitation and Landscape and reporting findings to the Operations Superintendent.

4.3 Records

Landscape and rehabilitation records to be maintained by AGL include:

- Environmental Management Sub Plan Compliance Audit, including:
 - Photographic records of disturbed areas during the rehabilitation period, as appropriate;
 - AGL Landowner Rehabilitation Sign-Off Form.



5. Administrative

5.1 Training and competence

Section 5.2 of the CGP EMP details the Training and Competence requirements.

5.2 Site specific plans

As site specific Rehabilitation Completion Criteria is developed for each well, it will be appended to the Petroleum Operations Plan.

5.3 Definitions

Currently not applicable.

5.4 HSEMS references

- AGL Environment Policy
- AGL-HSE-STD-009.1 Land Standard
- AGL-HSE-SDM-009.1 Land Standard Methodology

5.5 References

- Vegetation and Landscape Management Plan Proposed Gas Treatment Plant, prepared by URS, 28 June 2004.
- Sydney Gas Proposal Stage 2 Coal Seam Methane Project Visual Assessment of Lighting and Flare, prepared by URS, 6 November 2003.
- RPGP Road Landscape and Rehabilitation Management Plan, prepared by URS, July 2007 43177475.
- Camden Gas Project Petroleum Operations Plan Version 14, prepared by AGL, June 2021.
- NSW Department of Primary Industries, NSW WeedWise Register, <http://weeds.dpi.nsw.gov.au/>