

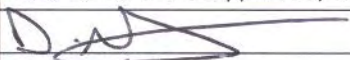
CAMDEN GAS PROJECT TRAFFIC MANAGEMENT SUB PLAN

AGL Gas Production (Camden) Pty Limited
August 2008

Document Control

Traffic Management Sub Plan

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Revision Status:

Revision	Date	Prepared By	Checked By	Approved By	Comments

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1. Introduction

This Traffic Management Sub Plan (TMSP) has been prepared to supplement the Environment Management Plan (EMP) for the Camden Gas Project ('the project' or 'CGP').

The TMSP has been developed to specifically address and manage potential traffic issues within the Road Reserve and on public roads for the operations of the CGP, in line with the requirements of relevant leases and Development Consents. This Plan describes higher-level protocols, procedures and management measures that will be implemented to mitigate and minimise potential traffic impacts on the community and environment during the CGP.

It is based on the previously prepared and approved Environment Health and Safety Management Plans (EHSMP) and the current AGL Energy Life Guard system and more information is available in the EMP..

1.1. Objective

To outline traffic management measures for construction and operation activities of the CGP, to minimise the potential traffic impacts on public roads.

1.2. Target

Zero incidents or complaints received regarding traffic disruption.

1.3. Responsibilities

Personnel responsible for implementing this Traffic Management Sub Plan include the following:

- › Land and Compliance Officer and Senior Project Engineer responsible for liaising with the RTA and/ or Council regarding works with the potential to impact upon traffic flows on a public road.
- › Field Environment and Safety Officer and Project Manager responsible for informing site personnel of the required procedures and protocols for traffic management via an induction program.
- › Field Environment and Safety Officer, Project Manager and Land & Compliance Officer responsible for monitoring compliance with this Sub Plan and site specific requirements.
- › Gas Plant Supervisor responsible for ensuring all AGL vehicles are properly maintained and serviced.
- › Land & Compliance Officer responsible for landowner consultation with assistance from the Project Manager in addressing and managing public enquiries in relation to traffic movements and access arrangements.
- › All employees responsible for working in a manner which minimises potential traffic impacts on safety and the community.

2. Requirements

Table 2.1 lists the key licence and development consent requirements for the CGP in relation to traffic.

2.1. Key Licence/ Development Consent Requirements

Table 2.1: Summary of Key Licence / Consent / Approval Requirements

Reference	Requirement
DA 282-6-2003i (Sch 4, Cond 112) Fields - Rosalind Park, Wandinong, EMAI (EM01-20, 38-40), Glenlee (GL05, 07-10, 14-17)	The Applicant shall prepare a Road Reserve Environment Management Plan (EMP) in consultation with Wollondilly Shire Council and Campbelltown City Council. The Road Reserve EMP shall be submitted to the 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: <ul style="list-style-type: none"> (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.
DA-9-1-2005 – Sch 2, cond 10c	The Applicant shall comply with the following in the construction of the gas gathering system pipeline: <ul style="list-style-type: none"> (c) local council traffic guidelines in respect of work carried out on road verges and underneath roads shall be implemented;
DA 171-7-2005 - Sch 3, Cond 31 Field – El Bethel NB This consent has not yet been commenced.	The Applicant shall prepare a Road Reserve Environmental Management Plan (EMP) in consultation with Wollondilly Shire Council. 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 by the Director-General. The Road Reserve EMP shall include: <ul style="list-style-type: none"> (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.

Reference	Requirement
PA 06_0291 (Sch 3 Cond 22) Fields – Spring Farm and Menangle Park	<p>The Proponent shall prepare and implement a Construction Traffic Management Plan for the project in consultation with the RTA, Camden Council and Campbelltown City Council, and to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to construction commencing (or as otherwise agreed by the Director-General) and shall include:</p> <p>(a) a description of the measures that would be implemented to:</p> <ul style="list-style-type: none"> » maintain access; » minimise the potential noise and safety impacts associated with the construction of the gas gathering lines and construction traffic; and » keep the community informed of any traffic disruptions that would be caused by the project; <p>(b) traffic control plans, where appropriate.</p>
Petroleum Exploration Licence 2 (PEL 2) – Sch 2, cond 9, 10	<p>Operations must not affect any road or track unless with the written approval of the Director-General and subject to any conditions he may stipulate. The licence holder must pay the local council, the Department of Lands or the Roads and Traffic Authority the costs incurred in fixing any damage to roads caused by operations carried out under the licence.</p> <p>Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for prospecting operations. The design and construction of access tracks must be in accordance with specifications of the Department of Infrastructure, Planning and Natural Resources. If imported topsoil is to be used on access tracks the source of the topsoil must be approved by an Environmental officer.</p> <p>The use of any road or track must be restricted during wet weather to prevent damage to such road or track.</p>
Petroleum Production Lease 1 and PPL 2 (cond 10) Fields – Apap, EMAI (part), Johndilo, Joe Stanley, Kay Park, Loganbrae, Lipscombe, Mahon	<p>In the event of operations being conducted on the surface of any road, track or fire trail traversing the subject area or in the event such operations causing damage to or interference with any such road, track or fire trail the lease holder must if directed in writing by the Minister provide in writing to the satisfaction of the Minister an alternative road, track or fire trail in a position as required by the Minister and must allow free and uninterrupted access along such alternate road, track or fire trail and, if required by the Minister, the leaseholder must upon completion of operations rehabilitate the surface of the original road, track or fire trail to a condition satisfactory to the Minister.</p> <p>The lease holder must consult with prior to and implement local Council and Roads and Traffic Authority (RTA) guidelines as applicable in respect of works carried out on road verges and underneath shire roadways.</p>

2.2. Key Legislative and Regulatory Requirements

The key legislative and regulatory requirements relating to traffic control and management include the following:

Environmental Planning and Assessment Act 1979

Requires consideration of the environmental impacts of a proposed development, including those related to traffic and access.

Road Transport (Vehicle Registration) Regulation 2007

Limits the overall size (width, height and length) and some internal dimensions of vehicles to ensure that they have adequate manoeuvrability and that they are compatible with road systems and other traffic. A permit is required from the RTA to exceed dimensions if the length, rear overhang, forward projection, width or height of a vehicle exceeds the limits allowed by the Regulation.

RTA Vehicle Standards Information Sheet No. 5 – Vehicle Dimension Limits

Sets out the limits for vehicle length, height and width, ground clearance, projecting loads and equipment, loading space, rear overhang, turning circle and axle groups and suspension systems.

Roads Act 1993

Section 138 requires that any works on over a public road or connection to a public road require consent from the appropriate roads authority.

Other requirements include Australian Standard AS 1742.3 and the RTA's "Traffic Control at Work Sites" manual.

3. Management Measures

3.1. Overview

The activities of the project involve the use of the Road Reserve for the construction of gas gathering lines and provision of access to well surface locations. Gas gathering line construction activities largely involve trenching parallel to, and underboring of public roads.

The activities of the project also requires vehicles to use the public roads, including heavy vehicles, to transport machinery and personnel to and from well surface locations and gas gathering lines in the field. The most significant number of vehicle movements occurs during construction works with intermittent vehicle activity during the production (or operational) and rehabilitation phases of the project.

AGL does not currently own oversized vehicles and contractors will be responsible for their own oversized vehicles. Contractors will be required to adhere to relevant legislation regarding oversized vehicles.

3.2. Potential Traffic Impacts

3.2.1. Gas Gathering Line Construction

Parts of the gas gathering line may need to be installed adjacent to roadways, within the Road Reserve, which may result in temporary disruptions to traffic flows. These works would be undertaken in consultation with the RTA or Council, out of peak traffic times and would be conducted under traffic conditions described in traffic control plans, thereby minimising impacts to road users. Traffic Control Plans will be prepared and designed to manage traffic and guide it around or past, or if necessary through the work site.

The construction of gas gathering lines requires excavators, graders and chain trenchers transported to site on semi trailers and prime movers. Some gas gathering lines may also involve the underboring of some roadways. In such circumstances, traffic management measures, such as Traffic Control Plans, may need to be implemented to minimise disruption to traffic flows and ensure the safety of the public.

It should be noted that traffic impacts related to works within the Road Reserve are addressed in this TMSP. This is described in Section 3.3.

3.2.2. Access Requirements

Activities associated with the CGP will require the use of some existing access points, both public and private. The construction works have the potential to impact on roadways and access ways through the increase in vehicles, the need for additional access ways, and requirements for manoeuvring within the proposed work areas. This is not expected to significantly impact on the locality given the temporary nature of the activities and current land use and development around the proposed well surface locations.

3.3. Control Measures – Traffic Management

The following control measures would be put in place for the construction and operation phases of the project as specified.

Table 3: Control Measures

Activity	Action	Responsibility
Construction, Operation	Unnecessary vehicle movements would be minimised where possible.	Land and Compliance Officer/ Field Environment and Safety Officer/ Project Manager
Construction, Operation	Transportation of equipment and machinery likely to cause delays to traffic flows would be timed to avoid peak traffic flows, wherever possible.	Project Manager
Construction	Maintain existing access arrangements during construction activities, where possible. If not possible, establish alternative access for the duration of construction activities	Project Manager/ Field Environment and Safety Officer
Construction, Operation	Vehicle operators would be advised of designated access routes and roadways during the site specific induction. These specific routes would be used to access sites to minimise potential impacts on larger areas of the locality. Appendix A includes a plan of the major public roads used to access the different parts of the field operations.	Project Manager/ Field Environment and Safety Officer
Construction	All works undertaken in proximity to roadways would be conducted under traffic conditions, (including as described in traffic control plans where relevant), which would be prepared for works potentially impacting traffic.	Project Manager/ Field Environment and Safety Officer
Construction	Community members potentially affected by works adjacent to roads would be notified in accordance with Section 5.3 of the EMP and provided with details of the works including expected duration, hours of work and contact details.	Land and Compliance Officer/ Field Environment and Safety Officer/ Project Manager
Construction	Appropriate signage of works would be displayed in accordance with Road Occupancy Permit, where required.	Field Environment and Safety Officer/ Project Manager
Construction	The use of oversized vehicles would be in accordance with relevant regulations and RTA guidelines.	Project Manager/ Contractor
Construction, Operation	<p>Where proposed works are located within the Road Reserve and have the potential to disrupt traffic flows or access, a Traffic Control Plan will be prepared and designed to manage traffic and guide it around or past, or if necessary through the work site.</p> <p>The plans will be prepared by specialist contractors prior to the commencement of works in consultation with the RTA and/ or local government authorities and AGL, to address the specific measures stipulated within this TMSP, and will comply with the requirements of Australian Standard AS 1742.3 and the RTA's "Traffic Control at Work Sites" manual.</p> <p>Where relevant, the contractor would also apply for permits and approvals required for road occupancy and other road corridor works.</p>	Project Manager/ Field Environment and Safety Officer



4. Monitoring and Reporting

Monitoring to ensure works are being carried out in compliance with this Sub Plan will be done by:

- > Site specific inductions;
- > Toolbox meetings;
- > Spot checks;
- > Regular site inspections; and
- > Review of records including minutes of Site specific inductions and Toolbox meetings, the complaints register and incident reports.

Complaints and incidents related to traffic management will be recorded, addressed and reported in accordance with sections 5.3.4 and 6.5 of the EMP and with this TMSP.



5. Administrative

5.1. Site Specific Plans

- › Appendix A contains a plan of the Camden Gas Project well fields and the major public access routes.

5.2. Definitions

- › Currently not applicable

5.3. Life Guard References

- › AGL Energy Safe Driving Policy
- › LG-HSE-CG-049 Road-Vehicles Safety

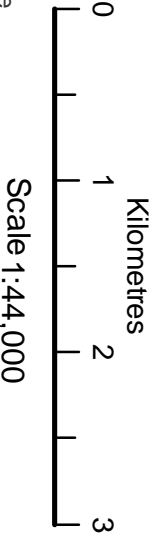


6. References

- › Australian Standard AS 1742.3
- › RTA's "Traffic Control at Work Sites" manual

Camden Gas Project Public Roads

Disclaimer: While AGL has taken great care and attention to ensure the accuracy of the data represented on this map, no liability shall be accepted for any errors or omissions. No part of this map may be reproduced without prior permission of AGL.



- Legend**
- Gas Fields
 - Public Roads
 - South Western Freeway
 - Railway
 - Nepean River

