

# Concept Approval

## Section 75O and 75P of the *Environmental Planning and Assessment Act 1979*

Under the Minister for Planning and Infrastructure's delegation of 14 September 2011, the Planning Assessment Commission of New South Wales approves the concept plan referred to in Schedule 1, subject to the terms of approval in Schedule 2.

**Member of the Commission**

**Member of the Commission**

**Member of the Commission**

Sydney

2012

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### **SCHEDULE 1**

**Concept Number:**

10\_0144

**Proponent:**

Shoalhaven Starches Pty Ltd

**Approval Authority:**

Minister for Planning and Infrastructure

**Land:**

Land covering the entire pipeline route running east south-east from the existing Eastern Gas Pipeline at Pestells Lane, Meroo Meadow to the Shoalhaven Starches factory site at Bolong Road, Bomaderry (refer to EA and accompanying plans).

**Project:**

Shoalhaven Starches Gas Pipeline Project

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## DEFINITIONS

Concept Plan	Concept Plan for the proposed Shoalhaven Starches Gas Pipeline Project, depicted generally in Appendix 1, and described in the environmental assessment in support of the concept plan and project application, titled <i>Proposed Gas Pipeline from Pestells Lane, Meroo Meadow, to the Shoalhaven Starches Factory Site, Bolong Road, Bomaderry</i> , prepared by Cowman Stoddart Pty Ltd, and dated March 2012
Council	Shoalhaven City Council
Director-General	The Director-General of the Department of Planning and Infrastructure, or his nominee
EA	The Environmental Assessment titled <i>Proposed Gas Pipeline from Pestells Lane, Meroo Meadow, to the Shoalhaven Starches Factory Site, Bolong Road, Bomaderry</i> , prepared by Cowman Stoddart Pty Ltd, and dated March 2012; and the Response to Submissions report titled <i>Response to Submissions Report – Concept Plan 10_0144 and Project Application 10_0108 – Shoalhaven Starches Gas Pipeline Project</i> , prepared by Cowman Stoddart Pty Ltd, and dated 5 July 2012
Project Proponent	The development described in the EA Shoalhaven Starches Pty Ltd
Site	Land to which the concept plan application applies (see Appendix 1)
Statement of Commitments	See Appendix 2

## **SCHEDULE 2**

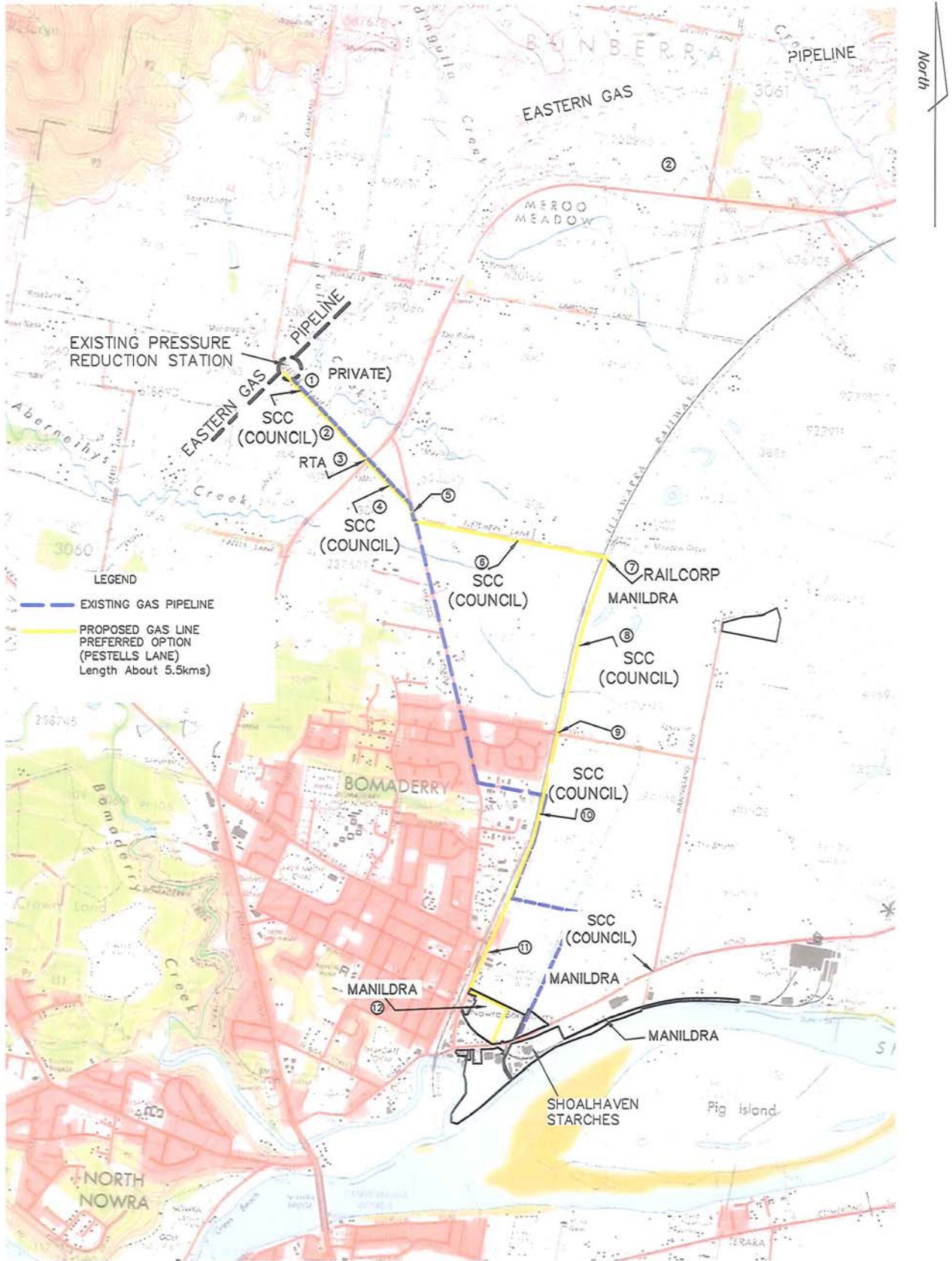
### **GENERAL TERMS OF APPROVAL**

1. Concept plan approval is granted for a 5.5km long gas pipeline to connect the Shoalhaven Starches Factory at Bolong Road Bomaderry to the Eastern Gas Pipeline at Pestells Lane, Meroo Meadow (see Appendix 1).
2. The Proponent shall carry out the Concept generally in accordance with:
  - (a) the EA and accompanying plans;
  - (b) the Statement of Commitments; and
  - (c) this approval.

### **LIABILITY TO LAPSE**

3. This approval shall lapse if the Proponent does not physically commence the proposed Project associated with this concept plan within 5 years of the date of this approval.

# APPENDIX 1 CONCEPT PLAN LAYOUT



EXISTING PRESSURE  
REDUCTION  
STATION

EASTERN GAS  
PIPELINE  
PRIVATE)  
SCC  
(COUNCIL)②  
RTA ③

SCC  
(COUNCIL) ④

SCC  
(COUNCIL) ⑤

⑦ RAILCORP  
MANILDRA

⑧  
SCC  
(COUNCIL)

SCC  
(COUNCIL)  
⑩

SCC  
(COUNCIL)  
⑪

MANILDRA  
⑫

MANILDRA

MANILDRA

SHOALHAVEN  
STARCHES

Pig Island

- LEGEND
- EXISTING GAS PIPELINE
  - PROPOSED GAS LINE  
PREFERRED OPTION  
(PESTELLS LANE)  
Length About 5.5kms)



**APPENDIX 2  
STATEMENT OF COMMITMENTS**

<i>Outcomes</i>	<i>Action</i>	<i>Timing</i>	<i>EA Section No.</i>
<b>1. Ecological Management</b>			
Minimise impacts of on flora and fauna across project corridor and surrounding area	1.1 Maintain strict control on clearance envelope. Ensure no clearing to occur outside of surveyed pipeline corridor.	Prior to and during corridor preparation.	7.6
	1.2 Care is required when constructing the pipeline across low lying areas to ensure that the movement of soil is minimised. An Erosion and Sediment Control Plan should be prepared to facilitate good on-site management of erosion during construction.	Prior to construction.	7.6
	1.3 If street trees are removed from Railway Street or elsewhere, they should be replaced. The species to be used should be determined through consultation with Shoalhaven City Council.	Rehabilitation period.	7.6
	1.4 Minimise extent of vegetation clearance where possible.	During corridor surveying and clearing activity.	7.6

**Table 39 (continued)**

<i>Outcomes</i>	<i>Action</i>	<i>Timing</i>	<i>EA Section No.</i>
	1.5 Avoid unnecessary removal of hollow-bearing trees identified during corridor surveying.	During corridor surveying and clearing activity.	7.6
	1.6 Retain all understorey and groundcover from pipeline corridor to ensure retention of natural seed stocks to facilitate rehabilitation program.	During corridor preparation.	7.6
	1.7 The areas of the proposed pipeline corridor which have not been assessed should be before construction begins.	Prior to construction.	7.6
	1.8 Local native plant species must be used to rehabilitate native riparian vegetation disturbed by the project.	Post construction.	
	1.9 Undertake weed monitoring and management program along pipeline corridor.	Post rehabilitation.	7.6
	1.10 Consult with landholders regularly to ensure rehabilitation objectives	Ongoing (periodic).	7.6

	are being achieved.		
<b>2. Cultural Heritage</b>			
Employees and contractors aware and respectful of Aboriginal heritage values of project site and surrounding area.	2.1 Include specific Aboriginal heritage awareness in project induction program.	Site induction process.	7.7
	2.2 CEMP to include specific action should unknown sites or items be discovered during corridor creation or any other period. Consult with OHE and stakeholders as required.	Construction period.	7.7

**Table 39 (continued)**

<b>3. Surface and Groundwater Management</b>			
Maintenance of soil value for rehabilitation and minimisation of soil loss through erosion.	3.1 The CEMP for the project is to make provision for erosion and sediment control.	Prior to construction.	7.4.1
	3.2 A comprehensive Erosion and Sediment Control Plan (ESCP) is to be prepared for the project in accordance with the recommendations of the Erosion and Sediment Control Management Plan prepared by Allen Price & Associates (refer 24710).	Prior to construction.	7.4.1
	3.3 Observe strict controls over the stripping, stockpiling and protection of topsoils and trench spoil during pipeline installation.	All stages.	7.4.1
	3.4 Replace trench spoil and topsoils as soon as practicable.	Completion of backfilling activities.	7.4.1
	3.5 Install silt fencing or otherwise to protect topsoil stocks where delays prevent replacement.	Construction period.	7.4.1
	3.6 Re-establish soil conservation systems (where applicable) on freehold lands to agreed condition.	Rehabilitation period.	7.4.1
	3.7 Prepare activity specific water crossing construction method statements. In this regard all watercourse crossings are to be directionally bored:		

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	<ul style="list-style-type: none"> <li>with entry and exit points sufficiently setback to allow for desired Category 2 riparian</li> </ul>	Prior to construction.	7.4.1

	<p>objectives to be met with trenching to stop at the edge of the 20 m CRZ. As a minimum, open trenching should be stopped at the 10 m boundary of this CRZ for Category 3 watercourses in order to preserve bed and bank stability; and</p> <ul style="list-style-type: none"> <li>• which calls for designed scour depth and safety margin.</li> </ul> <p>The water crossing construction method statements are to be submitted to the Office of Water (DP&amp;I) for endorsement prior to any construction near the watercourse commencing.</p>		
	<p>3.8 Temporary watercourse vehicle crossings are to be undertaken by laying temporary gabion mattresses (or similar) on the bed of the watercourse to minimise disturbance to the bed. Temporary waterway vehicle crossings are to remain in place until the length of the pipeline between Fletchers Lane, Edwards Avenue and Railway Street is tested, commissioned and backfilled.</p>	Prior to construction.	
	<p>3.9 Based upon results of this EA it is considered Acid Sulphate Soils are likely to be encountered along low lying parts of the pipeline route located in Lots 4 and 5 and in the vicinity of creek crossings (reference CTP09 and CTP12). ASS may also be encountered sporadically up to the intersection with Fletchers Lane. The previous ASSMP prepared for the proposed SSEP Packing Plant be extended to incorporate other sections of the proposed pipeline where ASS could be intersected.</p>	Prior to construction.	7.4.1

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	<p>3.10 Appropriate safety procedures should be implemented for all excavations in accordance with relevant OH&amp;S legislation and the findings and recommendations of the assessment carried out by Coffeys (<b>Annexure 10a</b>).</p>	All stages.	7.4.2

	3.11 The Office of Water is to be consulted if groundwater de-watering is necessary during construction to determine if an approval is required.	During construction.	
	3.12 Each watercourse is to be assessed to determine whether the soils are sodic of non-sodic within the flood liable land. The soil properties (such as sodicity) at watercourse crossings need to be assessed to determine appropriate crossing methodologies and rehabilitation measures. The investigation should be undertaken before construction commences.	Prior to construction.	
<b>4. Traffic Management</b>			
Minimise the impact of the project on the areas of normal traffic flow.	4.1 Prepare a Construction Traffic Management Plan which details: <ul style="list-style-type: none"> <li>• Access points;</li> <li>• Staff parking;</li> <li>• Safety management proposals;</li> <li>• Traffic management proposals;</li> <li>• Consultation and liaison with adjacent property owners who may be affected by construction.</li> </ul> Remediate any damage to roads/access tracks caused by the construction of the pipeline.	Planning stages.	7.8
Traffic safety considerations	4.2 Erect appropriate road signage along project site as per NSW RTA requirements.	Construction period.	
	4.3 Minimise overall impacts of project on major traffic flows.	Construction period.	
	4.4 Inform all potentially affected residents adjoining the gas pipeline corridor of proposed traffic arrangements. Provide alternate access to landholders where access is disrupted.	Construction period.	

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
<b>5. Air Quality</b>			
Complete proposed development without exceeding	5.1 Dust emissions during construction phase will be managed by implementing best	When required.	7.5



OEH air quality criteria objectives.		practice dust control measures such as minimising exposed areas, rehabilitation and revegetation upon completion of work and using water sprays if required.		
	5.2	Suppress dust along unsealed site access roads.  Restrict project vehicle speeds along the ROW.	When required.	7.5
	5.3	Limit topsoil stripping and trenching during high winds.	When required.	7.5
<b>6. Documentation</b>				
Documents governing planning, construction and operation.	6.1	Prepare and implant a CEMP for the project.	Pre-commencement.	
	6.2	Encourage strict observation of published construction plans and site specific work procedures.	All stages.	
	6.3	Ensure all construction and operating conditions are available to personnel.	Pre-commencement.	
<b>7. Overall Project</b>				
All approved activities to occur within the defined corridor boundaries.	7.1	Survey and clearly mark the boundary of the pipeline construction corridor.	Prior to commencement of disturbances.	
	7.2	Construction plans and induction program clearly state responsibilities of contractors to observe disturbance limitations.	During tender process and contractor inductions.	
	7.3	Construct and operate in accordance with Australian Standard AS2885 series and the Australian Pipeline Industry Association (APIA) Code of Environmental Practice 2005.	During construction and operations.	
<b>8. Operating Hours</b>				
Management of construction activities in accordance with approved operating hours.	8.1	Undertake all construction activities associated with the project that would generate an audible noise at any residential premises between 7:00 am to 6:00 pm Monday to Friday; 8:00 am to 1:00 pm on Saturday.	Duration of construction period.	7.3

Table 39 (continued)

<i>Outcomes</i>	<i>Action</i>	<i>Timing</i>	<i>EA Section No.</i>
	8.2 Limit construction materials deliveries along gas pipeline to operating hours as above.	Duration of construction period.	

<b>9. Noise and Vibration</b>				
All construction activities undertaken in appropriate manner to minimise noise and vibration impacts on surrounding environment.	9.1	All plant and machinery should be selected with consideration to low noise options where practicable and available.	All stages.	7.3
	9.2	Noisy construction activities (such as drilling at the Edward Avenue intersection) only operate for 2 – 3 hours at a time to reduce noise impacts at nearby residences (for example at the Edwards Avenue intersection). Ensure activities in any one location are staggered. For instance, if rock hammering or drilling is occurring at one location all other construction activities will cease in the same location to minimise cumulative noise impact.	All stages.	7.3
	9.3	Workers and contractors be trained in work practices to minimise noise emissions: <ul style="list-style-type: none"> <li>• Employ the use of broadband audible reversing alarms on all mobile plant.</li> <li>• Avoid dripping materials from a height.</li> <li>• Avoid shouting and talking loudly outdoors.</li> <li>• Avoid the use of radios outdoors that can be heard at the boundary of residences.</li> <li>• Turn off equipment when not being used.</li> <li>• Carry out work only within the recommended hours of operation.</li> </ul>	All stages.	7.3
	9.4	Truck drivers to be informed of designated vehicle routes, parking locations and acceptable delivery hours.	All stages.	7.3
	9.5	Work site vehicle entrance to be sited away from residences where practicable.	Prior to construction.	7.3

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	9.6 Optimise the number of vehicle trips to or from site, <u>ie.</u> amalgamate loads rather than using more vehicles with smaller loads.	All stages.	7.3

<p>9.7 Staff parking should be sited away from residential areas where practicable.</p>	<p>All stages.</p>	<p>7.3</p>
<p>9.8 No motor vehicles should access site prior to 7:00 am in order to avoid sleep disturbance, for example whilst works progress through receptor area 4 north of Roseville Road to south of Alfred Street.</p>	<p>All stages.</p>	<p>7.3</p>
<p>9.9 A community liaison officer should be available to consult with neighbouring property owners and contractors. The community liaison officer should also receive and manage noise complaints.</p> <ul style="list-style-type: none"> <li>• The community liaison officer will approach all potentially affected residences prior to the commencement of works as an initial introduction.</li> <li>• The community liaison officer will explain the project, duration of works, potentially noisy periods as well as determine any particularly sensitive receivers or sensitive time periods and schedule works accordingly, as far as reasonably practical.</li> <li>• A contact number will be provided for any residents to call with complaints or queries.</li> </ul> <p>Once works commence communication with affected residents will be maintained by the officer via a range of media including personal contact and / or letter box drops.</p> <p>For example a one page flyer detailing any particular noise upcoming events with a description of the type of work, date/s on which it will occur, duration of the expected noise and a contact phone number can be delivered to each residence in the lead up to the event/s.</p>	<p>Prior to construction and all stages.</p>	<p>7.3</p>

Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
	<p><b>9.10 Managing a Noise Complaint</b></p> <p>The Community Liaison Officer will receive and manage noise complaints. All complaints will be treated promptly and with courtesy.</p> <p>Should a justified noise complaint not be resolved, noise monitoring may be carried out at the affected receptor location and appropriate measures taken to reduce the noise emission as far as reasonably practicable.</p> <p>Where it is not practicable to stop the noise, or reduce the noise, a full explanation of the event taking place, the reason for the noise and times when it will stop should be given to the complainant.</p> <p>Residents subjected to lengthy periods of noise or vibration may be eligible for project specific respite offer. The purpose of such an offer is to provide residents with respite from an ongoing impact. This measure is to be determined on a site by site basis.</p> <p>The following guidelines are recommended in Section 6 of the <i>Interim Construction Noise Guideline</i> to manage a noise complaint:</p> <ul style="list-style-type: none"> <li>• Provide a readily accessible contact point, for example, through a 24 hour toll-free information and complaints line.</li> <li>• Give complaints a fair hearing.</li> <li>• Have a documented complaints process, including an escalation procedure so that if a complainant is not satisfied there is a clear path to follow.</li> <li>• Call back as soon as possible to keep people informed of action to be taken to address noise problems. Call back at night-time only if requested by the complainant to avoid further disturbance.</li> </ul>		

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	<ul style="list-style-type: none"> <li>• Provide a quick response to complaints, with complaint handling staff having both a good knowledge of the project and ready access to information.</li> <li>• Implement all feasible and reasonable measures to address the source of complaint.</li> <li>• Keep a register of any complaints, including details of the complaint such as date, time, person receiving complaint, complainant's contact number, person referred to, description of the complaint, work area (for larger projects), time of verbal response and timeframe for written response where appropriate.</li> </ul>		
	<p>9.11 Vibration measurements be undertaken during installation in the event that rock hammering is required or complaints regarding vibration are made.</p> <p>Vibration measurements can be carried out using either an attended or unattended vibration monitor.</p> <p>As a precaution, once the specific areas where rock hammering will occur are identified the following shall be undertaken:</p> <ul style="list-style-type: none"> <li>• carry out structural inspection surveys (dilapidation reports) on residences within 30 metres of rock hammering or vibration producing activities;</li> <li>• conduct vibration monitoring at residences within 30 metres of vibration producing works.</li> </ul> <p>In the event that vibration levels exceed the recommended limit, all vibration works must cease immediately and alternative methods must be employed.</p>	Construction period.	7.3
	9.12 Publish working hours clearly in all site induction documents.	Pre-commencement.	7.3
	9.13 Observe stated operating hours.	Construction period.	

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	9.14 Encourage all employees and contractors to drive in courteous manner and avoid undue generation of traffic noise.	All stages.	
	9.15 Ensure all equipment is in good working order and noise attenuation equipment installed on all machinery.	All stages.	
	9.15 Ensure deliveries of construction materials and equipment occur within operating hours.	Construction period.	
<b>10. Rehabilitation</b>			
Rehabilitation of gas pipeline corridor as soon as practicable.	10.1 Vegetation rehabilitation and maintenance should be addressed in the ESCP (see SOC 3.2) and as outlined in Section 3.11 of the Erosion & Sediment Control Plan prepared by Allen Price & Associates (refer 24710).	Prior to construction.	7.4.1
	10.2 Ensure topsoil and trench spoil are clearly segregated within pipeline corridor.	Duration of construction period.	7.4.1
	10.3 Ensure topsoil is not placed back across working area until trench is adequately compacted to avoid settling.	Rehabilitation period.	7.4.1
	10.4 Stabilise topsoil with retained vegetation as soon as practicable to encourage natural regeneration of disturbed corridor.	Rehabilitation period.	7.4.1
	10.5 Materials used for backfilling and trenches should be materials capable of providing uniform basal, wall and corner support for the service pipes. The excavated materials from the trenches are not considered suitable materials for backfilling in the immediate vicinity of the pipeline.	Construction period.	7.4.2.2
	10.6 Local native plant species must be used to rehabilitate native riparian vegetation disturbed by the project.	Following construction.	

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	<p>10.7 Rehabilitation should include the rehabilitation of watercourse crossings and the rehabilitation phase should continue until all watercourse crossing sites are identified as stable by an independent suitably qualified certifier. Any trench areas should be maintained until they are certified as stable.</p>	<p>Following construction.</p>	
	<p>10.8 Re-establish previous land uses as soon as practicable after trench backfilling.</p>	<p>As area becomes available.</p>	<p>7.4.1</p>
	<p>10.9 Ensure land profile is re-established to previous or agreed condition.</p>	<p>Ongoing with periodic monitoring.</p>	<p>7.4.1</p>
	<p>10.10 Conduct ongoing monitoring and maintenance of disturbed lands. The monitoring program would need to be undertaken to assess the outcomes of the works undertaken including areas of potential erosion and ground instability associated with construction impact. The monitoring program should include monitoring and maintenance of any bank stabilisation and stream bed and bank rehabilitation. The rehabilitation will need to be monitored until all crossing sites are identified as stable by an independent suitably qualified certifier.</p> <p>Monitoring should also be undertaken for the rehabilitation of native riparian vegetation where native riparian vegetation has been removed as part of the project and rehabilitated following construction. The Office of Water recommends a maintenance period of 5 years after final planting. The rehabilitation of other non native vegetation in riparian areas should be maintained until it is established and the area has been certified as stable by a suitably qualified certifier.</p>	<p>Ongoing.</p>	<p>7.4.1</p>

Table 39 (continued)

<i>Outcomes</i>	<i>Action</i>	<i>Timing</i>	<i>EA Section No.</i>
	10.11 Monitor corridor for weed species growth.	Ongoing.	7.4.1
	10.12 Undertake weed control and eradication where needs identified.	Ongoing / project life.	7.4.1
<b>11. Waste Management</b>			
Management of waste materials produced during construction phase.	11.1 Waste generated during construction is collected at staging points for regular removal by contractor.	Duration of construction period.	
	11.2 Waste materials collected for recycling where possible.	Duration of construction period.	
<b>12. Consultation</b>			
All stakeholders are satisfied with the outcomes of consultation.	12.1 Establish a 24 hour toll-free complaints telephone line.	Prior to construction period.	
	12.2 Advertise to the community that construction is going to commence and provide regular updates of project details.	Duration of construction period.	
	12.3 Put the project as an Agenda item for the Community Consultative Committee.	Ongoing.	
<b>13. RailCorp Requirements</b>			
To satisfy RailCorp requirements for the project.	13.1 Shoalhaven Starches agree to provide an accurate survey locating the development with respect to the rail boundary and rail infrastructure. This work is to be undertaken by a registered surveyor, to the satisfaction of RailCorp's representative.	Prior to Construction	
	13.2 Prior to the issue of a Construction Certificate Shoalhaven Starches will undertake a services search to establish the existence and location of any rail services. Persons performing the service search shall use equipment that will not have any impact on rail services and signalling. Should rail services be identified within the subject development site the Applicant must discuss with the Rail Authority as to whether these services are to be relocated or incorporated within the development site.	Prior to Construction	





	been prepared to its satisfaction.		
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Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
	13.6 Shoalhaven Starches undertake to enter into an agreement with RailCorp defining the controls to be implemented in managing the access required and/or the potential impacts of the development on RailCorp, and the involvement of RailCorp staff in ensuring the appropriate safety and technical standards are complied with throughout the development.	Prior to construction	
	13.7 Shoalhaven Starches undertake to comply with RailCorp <i>Guidelines for Minor Underbores</i> that is a supplement to SPC 207. These details are to be provided in detail to RailCorp to enable RailCorp to undertake a full assessment of the project in so far as it may relate to the crossing on RailCorp land prior to construction commencing.	Prior to construction	
<b>14. Shoalhaven Water Requirements</b>			
To satisfy requirements of Shoalhaven Water	14.1 Prior to commencement of any works Shoalhaven Starches undertake to apply to Shoalhaven Water for a Certificate of Compliance under Section 305 of Division 5 of Part 2 of Chapter 6 of the Water Management Act 2000.	Prior to construction	
	14.2 Shoalhaven Starches commit to providing adequate clearance to be provided between water and sewerage infrastructure and the proposed gas main. <i>Designs in relation to <b>sewer infrastructure</b> shall be designed/constructed/installed in accordance with Water Services Association of Australia - Sewerage Code of Australia – WSA 02-2002 Version 2.3 and the Shoalhaven Water Supplement to the Water Services Association of Australia - Sewerage Code of Australia (WSA 02-2002 Version 2.3) Version 1.</i>  <i>Designs in relation to <b>water infrastructure</b> shall be designed/constructed/installed in accordance with the clearances</i>	During construction	

	<p><i>as stated in the Water Services Association of Australia - Sewerage Code of Australia – WSA 02-2002 Version 2.3 and the Shoalhaven Water Supplement to the Water Services Association of Australia - Sewerage Code of Australia (WSA 02-2002 Version 2.3) Version 1 and in accordance with the Shoalhaven Water’s Water reticulation specification and construction standards.</i></p>		
	<p>14.3 Shoalhaven Starches commit to providing Shoalhaven Water with details of protective measures to be utilised where construction and / or construction plant movement is proposed in the vicinity of water and / or sewerage infrastructure.</p>	Prior to construction	

**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	<p>14.4 Detailed design plans (of the proposed gas pipeline) are to be submitted by Shoalhaven Starches to Council (Shoalhaven Water) for approval prior to the works commencing. Plans are to accurately detail all water and sewer assets within close proximity (1.50 m) of the proposed route of the gas pipeline.</p>	Prior to construction	
	<p>14.5 Shoalhaven Starches acknowledge that a Shoalhaven Water inspector shall be onsite at all time when works are undertaken in proximity to Shoalhaven Water assets. Shoalhaven Starches acknowledge that where works are required to cross Shoalhaven Water assets the works shall generally be undertaken by open excavation, except where underboring is required to be undertaken as agreed with Council staff in discussions on the 20<sup>th</sup> June 2012.</p> <p>In location/s where the gas pipeline is constructed by underbore, the applicant /developer shall submit to Shoalhaven Water plans for assessment and determination. Such plans shall be reviewed in</p>	During construction	

	<p>accordance with Shoalhaven Water's Levels of Customer Service for design checking (7 working days) subject to the plans being prepared in accordance with Shoalhaven Water's requirements.</p> <p>Shoalhaven Starches shall pay all reasonable costs relating to:</p> <ul style="list-style-type: none"> <li>- Listed inspections in Shoalhaven Water's approvals (including re-inspections),</li> <li>- Requested inspections (by the contractor or subcontractor or Shoalhaven Starches) including re-inspections,</li> <li>- Requested site visits (by the contractor or subcontractor or Shoalhaven Starches),</li> <li>- Administration matters relating to the gas pipeline project (examples include but are not limited to; plan checking, preparation of approvals, Certificate of Compliance matters, checking of work-as-executed plan/s),</li> <li>- Design and construction works (including supervision) undertaken by Shoalhaven Water or its agent/s for repair, alteration, deviation, replacement of water and/or sewerage assets impacted by the gas pipeline project.</li> </ul>		
	<p>14.6 Shoalhaven Starches will commit to ensuring that the alignment of all water and sewerage infrastructure shall be accurately and clearly marked on site prior to the commencement of works within 10m.</p>	<p>Prior to construction</p>	
<p>15. Roads &amp; Maritime Services (TMS) Transport Requirements</p>			
<p>To satisfy requirements of RMS.</p>	<p>15.1 Shoalhaven Starches commit to obtaining a Section 138 consent under the Roads Act, 1993 to the design for works within the road reserve.</p>	<p>Prior to construction</p>	
	<p>15.2 Shoalhaven starches undertake to design infrastructure with the aim of making it maintenance free for the duration of its design life.</p>	<p>Prior to construction</p>	

	15.3 Shoalhaven Starches accept that longitudinal trenching is to be at a minimum of 0.6 m whilst in the road reserve of the Princes Highway, as close to the road boundary as possible and not within 3.0 m of the road formation or drainage structures.	Prior to construction	
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**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	15.4 Shoalhaven Starches will seek to locate the pits for the bores on either side of the Princes Highway outside the road reserve if possible. Where this is not practicable, they are to be no closer than 3.0 m from the seal of the highway, for both the exit and entry holes. The depth shall not be less than 1.2 m below the road surface level to the top of the pipe or concrete.	Prior to construction	
	15.5 Shoalhaven Starches will seek to ensure all buried pipes be maintenance free, eg. sleeved.	Prior to construction	
	15.6 Where concrete bedding/slab or concrete encasement of the conduit is required, Shoalhaven Starches will ensure that the concrete has achieved its required early design strength.	Prior to construction	
	15.7 Shoalhaven Starches acknowledges that all roadworks, traffic control facilities and other works associated with this project, including any modifications required to meet RMS standards, will be at no cost to the RMS. All works shall be completed prior to occupation by a suitably qualified contractor.	Prior to construction	
	15.8 Shoalhaven Starches accept that all areas within the road reserve of the Princes Highway that are disturbed by works related to the project are to be restored to their original condition upon completion of the work. All restoration work is to be carried out to the satisfaction of RMS.	Prior to construction	

	<p>15.9 Shoalhaven Starches acknowledge that RMS will be exercising its powers under Section 64 of the Roads Act, 1993 to become the roads authority for works on the Princes Highway. Given this, Section 138 consent under the Roads Act, 1993 shall be obtained from the RMS prior to construction.</p>	Prior to construction	
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**Table 39 (continued)**

<b>Outcomes</b>	<b>Action</b>	<b>Timing</b>	<b>EA Section No.</b>
	<p>15.10 Shoalhaven Starches undertake to apply for, and obtain a Road Occupancy Licence (ROL) from the RMS Traffic Operations Unit (TOU) prior to commencing roadworks on a State Road or any other works that impact a travel lane of a State Road or impact the operation of traffic signals on any road. The application will require a Traffic Management Plan (TMP) to be prepared by a person who is certified to prepare Traffic Control Plans. Should the TMP require a reduction of the speed limit, a Speed Zone Authorisation will also be required from the TOU.</p>	Prior to construction	
<b>16. Reducing Impacts to Stock at 62 Edwards Avenue, Bomaderry</b>			
<p>To reduce impacts of construction works on horses kept at 62 Edwards Avenue, Bomaderry (the Apperley premises) in response to public submissions.</p>	<p>16.1 Shoalhaven Starches commit to arranging for the relocation of the horses from the Apperley premises and agisting them at an agistment property away from the construction site while the gas pipeline works occur along the frontage of the Apperley premises.</p>	<p>Prior to construction occurring along frontage of 62 Edwards Avenue, Bomaderry.</p>	