

Project Approval

Section 75J 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 project application referred to in Schedule 1, subject to the Conditions in Schedules 2 to 4.

These conditions are required to:

- prevent and/or minimise adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.

Member of the Commission

Member of the Commission

Member of the Commission

Sydney

2012

The Department has prepared a consolidated version of the consent which is intended to include all modifications to the original determination instrument.

The consolidated version of the consent has been prepared by the Department with all due care. This consolidated version is intended to aid the consent holder by combining all consents relating to the original determination instrument but it does not relieve a consent holder of its obligation to be aware of and fully comply with all consent obligations as they are set out in the legal instruments, including the original determination instrument and all subsequent modification instruments.

CONSOLIDATED CONSENT

SCHEDULE 1

Application Number:	10_0108
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 (see Appendix A)
Project:	Shoalhaven Starches Gas Pipeline Project

CONSOLIDATED CONSENT

SUMMARY OF MODIFICATIONS

Application Number	Determination Date	Decider	Modification Description
10_0108-Mod-1	21 JAN 2022	Team Leader	MOD 1 - Increase in Pipeline Diameter and Associated Works
10_0108-Mod-2	20 MAY 2022	Team Leader	MOD 2 - Realignment of Low Pressure Gas Pipeline

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DEFINITIONS

AEP	Annual Exceedance Probability
AHD	Australian Height Datum
BCA	Building Code of Australia
CEMP	Construction Environmental Management Plan
Concept Plan	Concept Plan (MP 10_0144) for the proposed Shoalhaven Starches Gas Pipeline Project, depicted generally in Appendix A, and described in 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
Construction	Any activity requiring a Construction Certificate, excavation work, road works, demolition, or any construction related activity as described in the EA.
Council	Shoalhaven City Council (including Shoalhaven Water)
DPI	The Department of Primary Industries (NSW Trade and Investment cluster)
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays
OEH	Office of Environment and Heritage
Department	Department of Planning and Infrastructure
Director-General	Director-General of the Department, 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
EPA	Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environmental Protection Licence
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical to build
FPL	Flood Planning Level
Heritage item	An item as defined under the <i>Heritage Act 1977</i> , and assessed as being of local, State and/ or National heritage significance, and/or an Aboriginal Object or Aboriginal Place as defined under the <i>National Parks and Wildlife Act 1974</i> .
Land	The whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval
Minister	Minister for Planning and Infrastructure, or delegate
Modification Assessments	<p>The document assessing the environmental impact of a proposed modification of this approval and any other information submitted with the following modification applications made under the EP&A Act:</p> <p>a) 10_0108-Mod-1 – Modification Report, prepared by Cowman Stoddart Pty Ltd, dated 21 July 2021, as amended by the Response to the Request for Additional Information, dated 9 November 2021 and Response to Request for Additional Information From DPIE – Water, dated, 13 January 2022</p> <p>b) 10_0108-Mod-2 – Modification Report, prepared by Cowman Stoddart Pty Ltd, dated 18 March 2022</p>
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
NOW	DPI - NSW Office of Water
Operation	When the gas pipeline commences transporting gas to the Shoalhaven Starches factory, but excluding commissioning activities.
Project	The development as described in the EA and as modified by the Modification Assessments
Proponent	Shoalhaven Starches Pty Ltd, or its successors in title
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements.
RMS	Roads and Maritime Services
RTS	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

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Site	2012
Statement of Commitments	The land referred to in Schedule 1 and shown in Appendix A
WorkCover	The Proponent's commitments for the project in Appendix B
	WorkCover NSW

FOR INFORMATION

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

Obligation to Minimise Harm to the Environment

1. The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or decommissioning of the project.

Terms of Approval

2. The Proponent shall carry out the project generally in accordance with the:
 - (a) EA;
 - (b) project plans (see Appendix A);
 - (c) statement of commitments (see Appendix B);
 - (d) the approved Concept Plan (MP 10_0144);
 - (e) conditions of this approval; and
 - (f) modification assessments.
3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
 - (a) any audits, reports, plans, programs, strategies, studies or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these audits, reports, plans, programs, strategies, studies or correspondence submitted by the Proponent.

Limits of Approval

5. No part of the project shall be located in a sensitive coastal location as defined under *State Environmental Planning Policy No. 71 — Coastal Protection*.

Lapsing of Approval

6. This approval shall lapse if the works are not physically commenced (within the meaning of section 95 of the EP&A Act) within 5 years of the date of this approval.

Staged Submission of Management Plans/Monitoring Programs

7. With the approval of the Director-General, the Proponent may submit any management plan or monitoring program required by this approval on a progressive basis.

Structural Adequacy

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

Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.

Protection of Public Infrastructure

9. The Proponent shall:
 - (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project;
 - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project; and
 - (c) protect or pay the full costs of protecting any public infrastructure that is impacted upon by the project.

Operation of Plant and Equipment

10. The Proponent shall ensure that all plant and equipment used for the project is:
- (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

Pre-Construction and Pre-Operation Compliance

11. Prior to the commencement of each of the events listed from (a) to (c) below, or within such period as otherwise agreed by the Director-General, the Proponent shall certify in writing, to the satisfaction of the Director-General, that it has complied with all conditions of this approval applicable prior to the commencement of that event.
- (a) construction of the development; and
 - (c) operation of the development.

Pipeline Construction

12. The project shall be constructed in accordance with the *APIA Code of Environmental Practice – Onshore Pipelines*.

SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS

INFRASTRUCTURE IMPACT MANAGEMENT

1. The Proponent shall prepare and implement an Infrastructure Management Plan for the project to the satisfaction of the Director-General to minimise impacts on infrastructure. This Plan must:
 - (a) be prepared in consultation with RailCorp, RMS and Council by a suitably qualified and experienced expert;
 - (b) be submitted to the Director-General at least one (1) month prior to the commencement of construction;
 - (c) be approved by the Director-General prior to the commencement of construction;
 - (d) describe all measures that would be undertaken to ensure that the project avoids impacts on third party infrastructure;
 - (e) describe how the project would comply with all pre-construction and construction safety and design requirements and relevant guidelines of RailCorp, RMS and Council;
 - (f) include detailed engineering plans for the project that meet the relevant pre-construction and construction safety and design requirements of RailCorp, RMS and Council;
 - (g) ensure that work is carried out to restore road and rail reserves back to original condition in the event that they are disturbed by works associated with the project; and
 - (h) ensure that all restoration works are undertaken at no cost to RailCorp, RMS, or Council.

HAZARDS AND RISK

Pre-construction

2. The Proponent shall prepare the studies/plans for the project set out under subsections 2(a) to 2(c) (the pre-construction studies). Construction of the project, other than of preliminary works that are outside the scope of the hazard studies, shall not commence until the recommendations of the pre-construction studies have been considered and, where appropriate, acted upon.

- (a) CONSTRUCTION SAFETY PLAN

A Construction Safety Study/Plan, consistent with *Australian Standard AS 2885.1 – 2007, Pipelines – Gas and liquid petroleum (Part 1: Design and construction)*.

The construction safety plan shall specifically address all safety measures relating to construction, testing and commissioning.

- (b) HAZARD AND OPERABILITY STUDY

A Hazard and Operability Study (HAZOP) for the proposed pipeline and ancillary facilities, chaired by a suitably qualified and experienced person, independent of the project. The study shall be conducted in a manner consistent with the Department of Planning's *Hazardous Industry Planning Advisory Paper No. 8, 'HAZOP Guidelines'* and AS 2885.

- (c) FINAL HAZARD ANALYSIS

A Final Hazard Analysis (FHA) of the proposed project, carried out in a manner consistent with the Department of Planning's *Hazardous Industry Planning Advisory Paper No. 6, 'Guidelines for Hazard Analysis'*.

The FHA shall specifically address risks from the meter station at the Bomaderry lateral tie-in and the pressure reduction facility at the end of the pipeline lateral, opposite the Shoalhaven Starches site on Bolong Road.

An updated Preliminary Hazard Analysis will satisfy this condition.

Pre-commissioning

3. Prior to commissioning of the project, the Proponent shall develop and implement the plans and systems set out under subsections 3(a) and 3(b).

- (a) EMERGENCY PLAN

An Emergency Plan prepared in accordance with Section 4 of AS 2885.3 – 2001.

(b) **SAFETY AND OPERATING PLAN (SAOP)**

A document setting out a comprehensive Safety and Operating Plan (SAOP) of the pipeline. The document shall clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to the procedures. The plan shall be in accordance with the requirements of AS 2885.3.

Pre-startup

4. **PRE-STARTUP COMPLIANCE REPORT**

One month prior to the commencement of operation of the project, the Proponent shall submit to the Director-General, a report detailing compliance with Conditions 2 and 3, including:

- (a) dates of study/plan/system completion, commencement of construction and commissioning; and
- (b) actions taken or proposed, to implement recommendations made in the studies/plans/systems; and
- (c) responses to any requirement imposed by the Director-General under Condition 7.

Post-startup

5. **POST-STARTUP COMPLIANCE REPORT**

Three months after the commencement of operation of the project, the Proponent shall submit to the Director-General, a report verifying that:

- (a) the Emergency Plan required under Condition 3(a) is effectively in place and that at least one emergency exercise has been conducted; and
- (b) the Safety and Operating Plan required under Condition 3(b) has been fully implemented and that records required by the system are being kept.

Ongoing

6. **ONGOING REVIEW**

In accordance with AS 2885.3 the proponent shall update the Safety and Operating Plan at approved intervals not exceeding 5 years and advise the Director-General that the update has been carried out.

7. **FURTHER REQUIREMENTS**

The Proponent shall comply with all reasonable requirements of the Director General in respect of the implementation of any measures arising from the reports submitted in respect of Conditions 2 to 6 inclusive, within such time as the Director General may agree.

NOISE AND VIBRATION

Construction Noise Criteria

8. The Proponent shall ensure that construction noise generated by the project does not exceed the criteria in Table 1.

Table 1: Construction noise criteria dB(A)

Receptor Area	Day <i>L_{Aeq}(15 minute)</i>
1 - Pestells Lane	50
2 - Fletchers Lane	72
3 - residences on the eastern side of Meroo Road, south of Fletchers Lane	51
4 - residences in Edwards Avenue and south	74

Notes:

- To identify the receptor areas refer to Appendix C of this approval.
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.

Construction Vibration Criteria

9. The Proponent shall ensure that construction vibration generated by the project does not exceed the intermittent vibration limits set out in the *Assessing Vibration: A Technical Guideline* (DECC, 2006) for human exposure and structural/cosmetic damage at residences.

Hours of Work

10. The Proponent shall only carry out the project during the hours specified in Table 2, unless otherwise agreed to in writing by the Director-General.

Table 2: Operating Hours

Activity	Day	Hours
Construction	Monday – Friday	7 am – 5 pm
	Saturday	8 am – 1 pm
	Sunday & Public Holidays	Nil
Operations	Monday – Sunday	24 hours, 7 days a week

Noise and Vibration Management Measures

11. Prior to the commencement of construction, the Proponent shall develop and implement safe site-specific working distances for all vibration intensive plant to be used for the project to avoid human discomfort and structural damage.
12. During construction, the Proponent shall, to the satisfaction of the Director-General:
- implement best practice noise and vibration management, including all reasonable and feasible noise and vibration mitigation measures to minimise construction noise and vibration generated by the project;
 - regularly assess noise and vibration monitoring data and relocate, modify, mitigate and/or stop operation on-site to ensure compliance with the relevant criteria; and
 - maintain a minimum separation distance of 35 metres from any temporary car parking area associated with the construction of the project to any residence.
13. The Proponent shall carry out the project in accordance with:
- the Construction Noise and Vibration Management Plan in the EA, prepared by Day Design Pty Ltd and dated 29 March 2012; and
 - the addendum to the Construction Noise and Vibration Management Plan in the RTS, prepared by Day Design Pty Ltd and dated 2 July 2012.

This plan and addendum must be documented in the CEMP for the project (see condition 1 in schedule 4).

14. Prior to the commencement of any construction works associated with the Project along the frontage of 62 Edwards Avenue, the Proponent shall, to the satisfaction of the Director-General, temporarily relocate the horses located at 62 Edwards Avenue, Bomaderry. As part of this condition, the Proponent shall:
- relocate the horses to a suitable alternate property in the local area;
 - ensure the relocation is undertaken throughout the duration of construction works along the frontage of 62 Edwards Avenue;
 - ensure that the location of the temporary property and the duration of the temporary relocation are undertaken in consultation with the owner of 62 Edwards Avenue; and
 - provide evidence that the owner of 62 Edwards Avenue agrees with the proposed alternate property and the duration of the temporary relocation.

Note: Construction noise from the project must be inaudible from the alternate property.

SOIL AND WATER

Discharge Limits

15. Except as may be expressly provided in the EPL for the site, the Proponent shall comply with Section 120 of the POEO Act.

Spillage Control

16. The Proponent shall store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or the EPA's *Environmental Protection Manual: Technical Bulletin Bunding and Spill Management*.

Watercourse Crossings

17. The Proponent shall prepare and implement detailed watercourse crossing construction method statements for underboring and temporary vehicles crossings to minimise impacts on watercourses as a result of the project. These statements must:
- (a) be prepared in consultation with NOW by suitably qualified expert/s;
 - (b) ensure watercourse crossings will be stable and not cause long-term harm to watercourses;
 - (c) include project specific modelling of scour depth safety margins and core riparian zone setbacks;
 - (d) meet the relevant requirements of NOW; and
 - (e) be approved by the Director-General prior to the commencement of construction.

These statements must be documented in the CEMP for the project (see condition 1 in schedule 4).

Soil and Water Management

18. The Proponent shall prepare and implement a Soil and Water Management Plan for the project to the satisfaction of the Director-General. This Plan must:
- (a) be prepared in consultation with Council and NOW by a suitably qualified and experienced expert;
 - (b) be approved by the Director-General prior to the commencement of construction;
 - (c) detail the measures that will be employed to prevent erosion and sedimentation of soil, in accordance with the relevant requirements in the latest version of the *Managing Urban Stormwater: Soils and Construction Guideline*, in particular near riparian zones and watercourses;
 - (d) detail how water and excavated soil would be tested, handled and stored/stockpiled;
 - (e) detail the protocols to be put in place and followed in the event that contaminated soil or water is encountered during construction;
 - (f) outline how contaminated soil and water will be disposed of off-site (e.g. at a licensed facility);
 - (g) detail the measures that would be put in place to manage and contain potential spills during cleaning and commissioning of the pipeline; and
 - (h) detail the on-going monitoring, maintenance and rehabilitation measures that would be implemented for land disturbed by the project (particularly bank stabilisation and bank and stream rehabilitation and the rehabilitation of any riparian vegetation disturbed by the project in each core riparian zone).

This plan must be documented in the CEMP for the project (see condition 1 in schedule 4).

Acid Sulphate Soils Management

19. The Proponent shall prepare and implement a Acid Sulphate Soils Management Plan for the project to the satisfaction of the Director-General. This Plan must:
- (a) be prepared in consultation with Council by a suitably qualified and experienced expert;
 - (b) be approved by the Director-General prior to the commencement of site preparation;
 - (c) outline the preliminary investigations that have been undertaken to test for the presence of ASS in accordance with the NSW State Government's *Acid Sulphate Soils Manual* (ASSMAC 1998);
 - (d) detail the protocols to be put in place and followed in the event that ASS is encountered;
 - (e) detail how the ASS will be tested, handled and stockpiled;
 - (f) detail measures to prevent erosion and sedimentation of ASS; and, if necessary
 - (g) outline how the ASS will be disposed of off-site (e.g. at a licensed facility).

This plan must be documented in the CEMP for the project (see condition 1 in schedule 4).

Flood Management

- 19A. Prior to the issue of a Construction Certificate, a professional engineer, (as defined in the National Construction Code) must submit to the satisfaction of the Certifier, certification that the following items have been detailed on the construction drawings of the Gas Pressure Reduction Facility:
- a) any proportion of the structure below the Flood Planning Level (FPL) must be built from flood compatible materials;
 - b) all electrical installations must be constructed above the FPL or be able to be isolated prior to a flood event;
 - c) the location of all hazardous substances are located at or above the 1% AEP Flood Level;
 - d) a flood evacuation plan must be prepared to ensure permanent, fail-safe, maintenance-free measures are incorporated in the development to ensure that the timely, orderly and safe evacuation; and
 - e) can withstand forces of floodwaters including debris and buoyancy forces up to a 1% Annual Exceedance Probability (AEP) flood event.

AIR QUALITY AND GREENHOUSE GAS

Odour

20. The Proponent shall not cause the emission of offensive odours from the site, as defined under Section 129 of the POEO Act.

Management Conditions

21. The Proponent shall:
- (a) implement best practice air quality management during construction including all reasonable and feasible measures to minimise odour, fume and dust emissions generated by the project; and
 - (b) minimise any visible air pollution generated by the project,
- to the satisfaction of the Director-General.

Air Quality Management

22. The Proponent shall implement all reasonable and feasible measures during construction and operation of the project to minimise site odour (particularly from contaminated soil), fume and dust emissions to ensure that air emissions are no greater than predicted in the EA.

These measures must be documented in the CEMP for the project (see condition 1 in schedule 4).

FLORA AND FAUNA

Vegetation Clearing

23. During the construction of the project, the Proponent shall minimise vegetation clearing as far as practicable.

Vegetation Rehabilitation

24. The Proponent shall:
- (a) where possible, avoid the removal of and retain trees along the pipeline route;
 - (b) replace any trees or plants that are disturbed or removed as a result of the construction of the project by replanting with similar mature native species in consultation with Council; and
 - (c) rehabilitate any riparian vegetation disturbed by the construction of the project back to its original condition as soon as practicable, but no later than three (3) months following the cessation of construction, in consultation with NOW and to the satisfaction of the Director-General.

WASTE

Waste Classification

25. The Proponent shall classify all waste in accordance with EPA's *NSW Waste Classification Guidelines: Part 1: Classifying Waste (2009)* and ensure waste is disposed of at a facility that may lawfully accept that waste.

Asbestos Handling

26. The Proponent shall ensure that any asbestos encountered during construction is handled and disposed of by appropriately qualified and licensed contractors in accordance with the *National Occupational Health and Safety Commission (2005): Code of Practice for the Safe Removal of Asbestos (2nd Ed)(NOHSC:2002(2005))*.

Waste Management

27. The Proponent shall implement all reasonable and feasible measures to minimise, manage and appropriately dispose of construction waste, in particular asbestos.

These measures must be documented in the CEMP for the project (see condition 1 in schedule 4).

TRAFFIC AND ROADS

Road Works Approvals

28. Prior to the commencement of construction, the Proponent shall obtain all necessary approvals under section 138 of the *Roads Act 1993*.

Traffic Management

29. During construction, the Proponent shall ensure that:
- (a) all trucks associated with the project have their loads covered and do not track dirt onto the public road network;
 - (b) public roads used by these trucks are kept clean;
 - (c) ensure access is maintained to private properties;
 - (d) where possible, vehicles associated with the project park on land owned by the Proponent; and
 - (e) no vehicles associated with the project shall park or queue on private land, except where the Proponent has obtained prior consent from the landowner to do so.
30. The Proponent shall prepare and implement a Traffic Management Plan for the project to the satisfaction of the Director-General. This Plan must:
- (a) be prepared in consultation with RMS, RailCorp and Council by a suitably qualified and experienced expert;
 - (b) be approved by the Director-General prior to the commencement of construction;
 - (c) identify the nature, location and duration of works during construction (including scheduled construction times) including those works that are expected to disrupt traffic (including rail traffic);
 - (d) detail the access and parking arrangements at all key points along the pipeline route including measures, where possible, to ensure vehicles do not park or queue on public roads or road/rail reserves;
 - (e) detail all measures that would be implemented to manage construction traffic, minimise disruption to local roads (e.g. minimising the size of the construction work-zone) and ensure safety;
 - (f) include measures to consult with landowners that may be temporarily impacted upon by construction traffic; and
 - (g) describe the actions that would be taken to repair any damage caused by construction traffic to local roads and/or rail infrastructure.

This plan must be documented in the CEMP for the project (see condition 1 in schedule 4).

HERITAGE

Heritage Management

31. The Proponent must prepare:
- (a) heritage training and induction processes for construction personnel (including procedures for keeping records of inductions) including site identification, protection and conservation of Aboriginal and historic heritage; and
 - (b) procedures for dealing with heritage items including human remains, including cessation of works in the vicinity and notification of the Department, NSW Police Force (in the case of human remains), OEH and registered Aboriginal stakeholders and not recommencing any works in the area unless authorised by the NSW Police Force and/ or the Department.

VISUAL AMENITY

Visual Mitigation

32. During the life of the project, the Proponent shall mitigate the visual impacts of the project in such a manner that it does not create nuisance to surrounding properties or the public road network.

SCHEDULE 4 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Construction Environmental Management Plan

1. The Proponent shall prepare and implement a Construction Environmental Management Plan for the project to the satisfaction of the Director-General. The Plan must:
 - (a) be submitted to the Director-General for approval no later than one (1) month prior to the commencement of construction or demolition or within such period otherwise agreed by the Director-General;
 - (b) identify the statutory approvals that apply to the project;
 - (c) consolidate and document all relevant management plans and monitoring programs required in the conditions of this approval;
 - (d) outline all environmental management practices and procedures to be followed during construction and demolition works associated with the project;
 - (e) describe all activities to be undertaken on the site during construction of the project, including a clear indication of construction stages;
 - (f) detail how the environmental performance of the construction works will be monitored, and what actions will be taken to address identified adverse environmental impacts;
 - (g) describe of the roles and responsibilities for all relevant employees involved in construction and demolition works associated with the project; and
 - (h) include arrangements for community consultation and complaints handling procedures during construction and demolition.

Construction of the project shall not commence until written approval of this plan has been received from the Director-General.

Revision of Strategies, Plans and Programs

- 1A. Within three months of the approval of any modification of the approval, the strategies, plans and programs required under this approval must be reviewed.
- 1B. If necessary, to either improve the environmental performance of the development or cater for a modification, the strategies, plans and programs required under this approval must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review required under condition 1A, or such other timing as agreed by the Planning Secretary.

***Note:** This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.*

ENVIRONMENTAL REPORTING

Incident Reporting

2. Within twenty four (24) hours of detecting an exceedance of the criteria in this approval or the occurrence of an incident that causes (or may cause) harm to the environment, the Proponent shall notify the Department and other relevant agencies of the exceedance/incident.
3. Within six (6) days of notifying the Department and other relevant agencies of an exceedance/incident, the Proponent shall provide the Department and these agencies with a written report that:
 - (a) describes the date, time, and nature of the exceedance/incident;
 - (b) identifies the cause (or likely cause) of the exceedance/incident;
 - (c) describes what action has been taken to date; and
 - (d) describes the proposed measures to address the exceedance/incident.

Access to Information

4. From the commencement of construction, the Proponent shall make the following information publicly available on its website as it is progressively required by the approval:
 - (a) a copy of all current statutory approvals;
 - (b) a copy of the current plans and programs required under this approval, in particular, the Construction Noise and Vibration Management Plan (and addendum) required under Condition 13, Schedule 3 of this approval;
 - (c) a summary of the monitoring results of the project, which have been reported in accordance with the relevant conditions of this approval;

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- (d) a complaints register, which is to be updated on a monthly basis; and
- (e) any other matter required by the Director-General.

FOR INFORMATION

APPENDIX A SITE PLANS

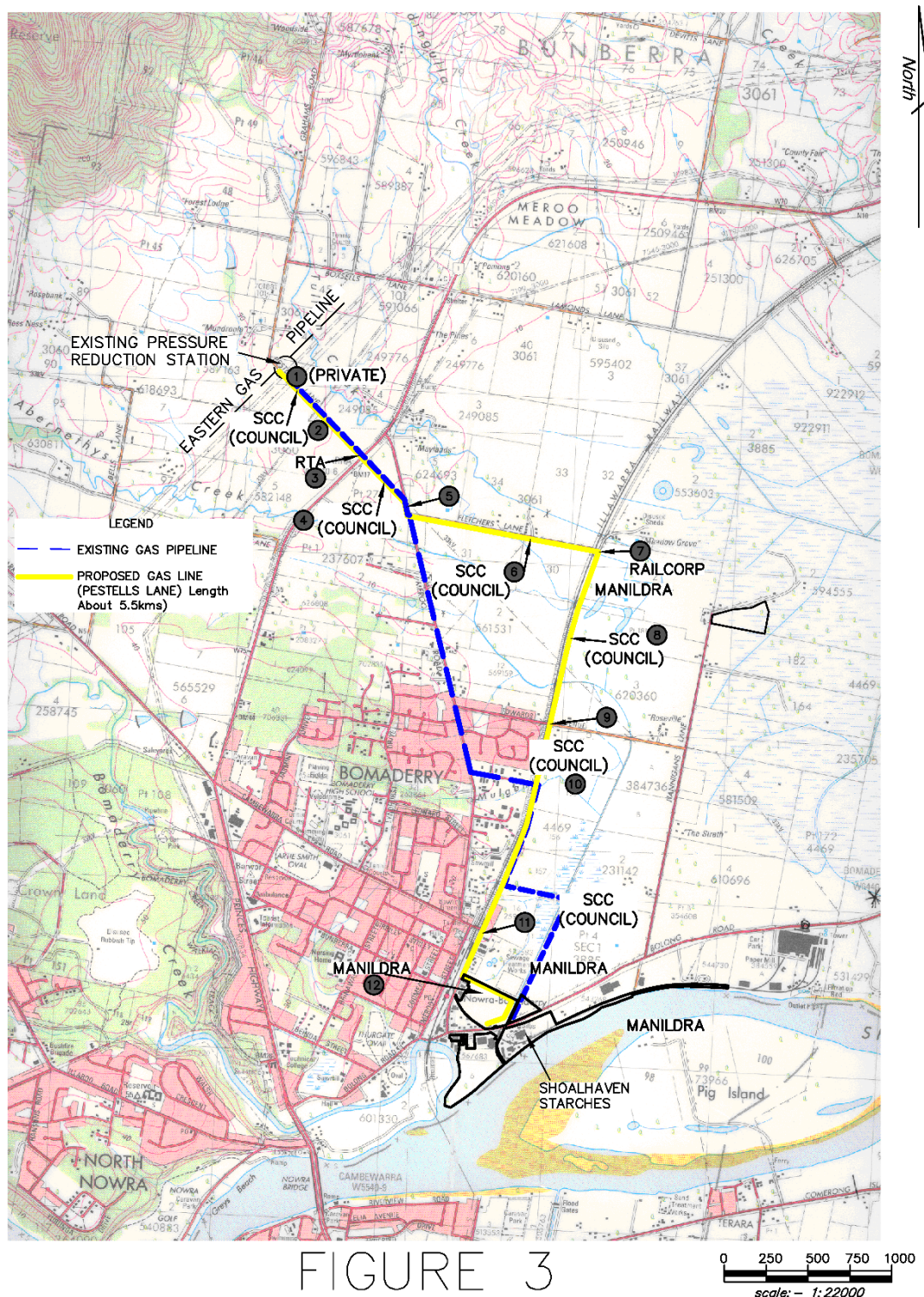


FIGURE 3

SKETCH PLAN SHOWING EXISTING AND PROPOSED GAS LINE ROUTE FROM EXISTING PRESSURE REDUCTION STATION AT PESTELLS LANE TO BOLONG ROAD FACTORY FOR THE MANILDRA GROUP

CAD FILE: N24710-01K

A3
SIZE
RATIO
1:22,000



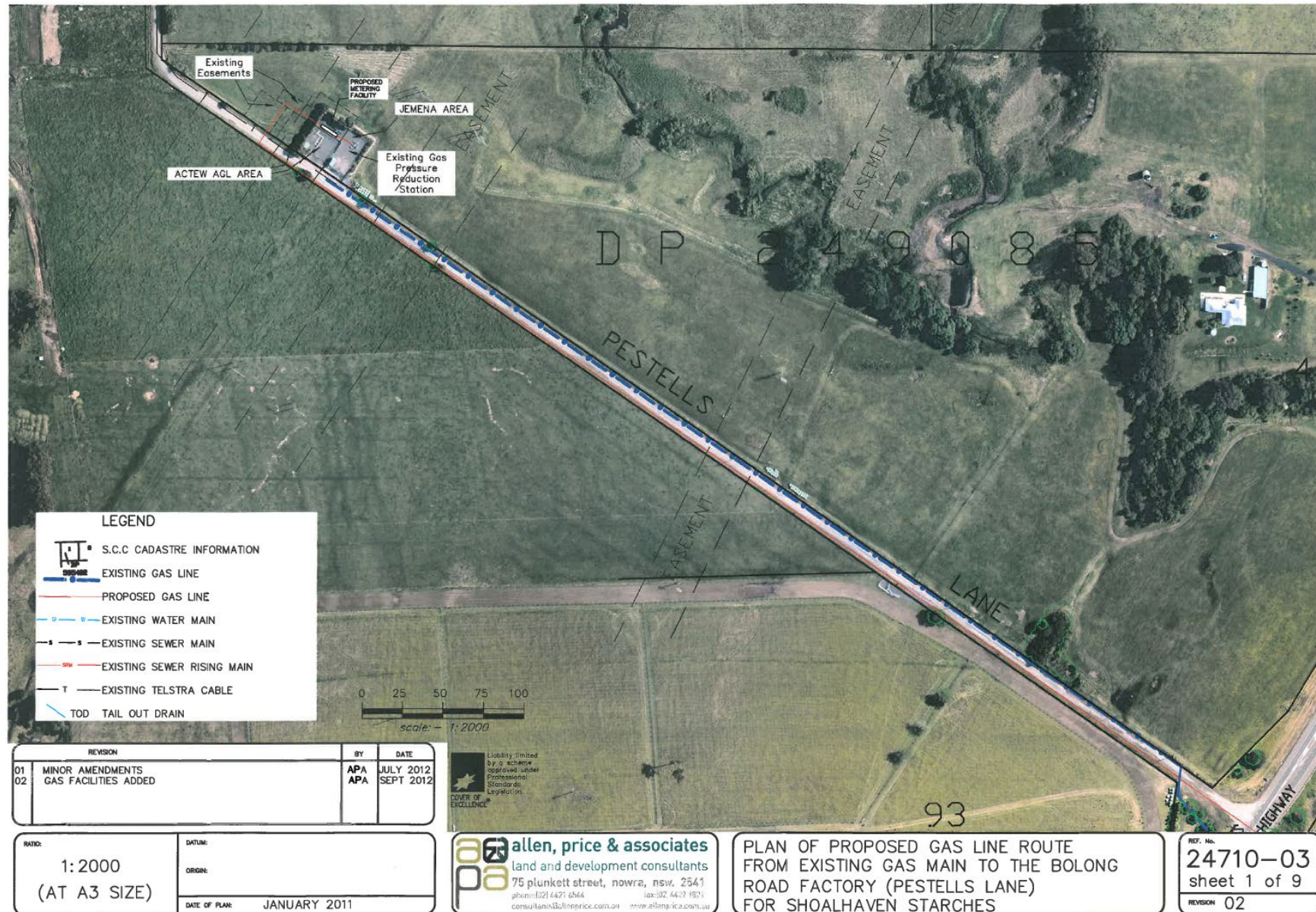
allen price & scarratts
land and development consultants

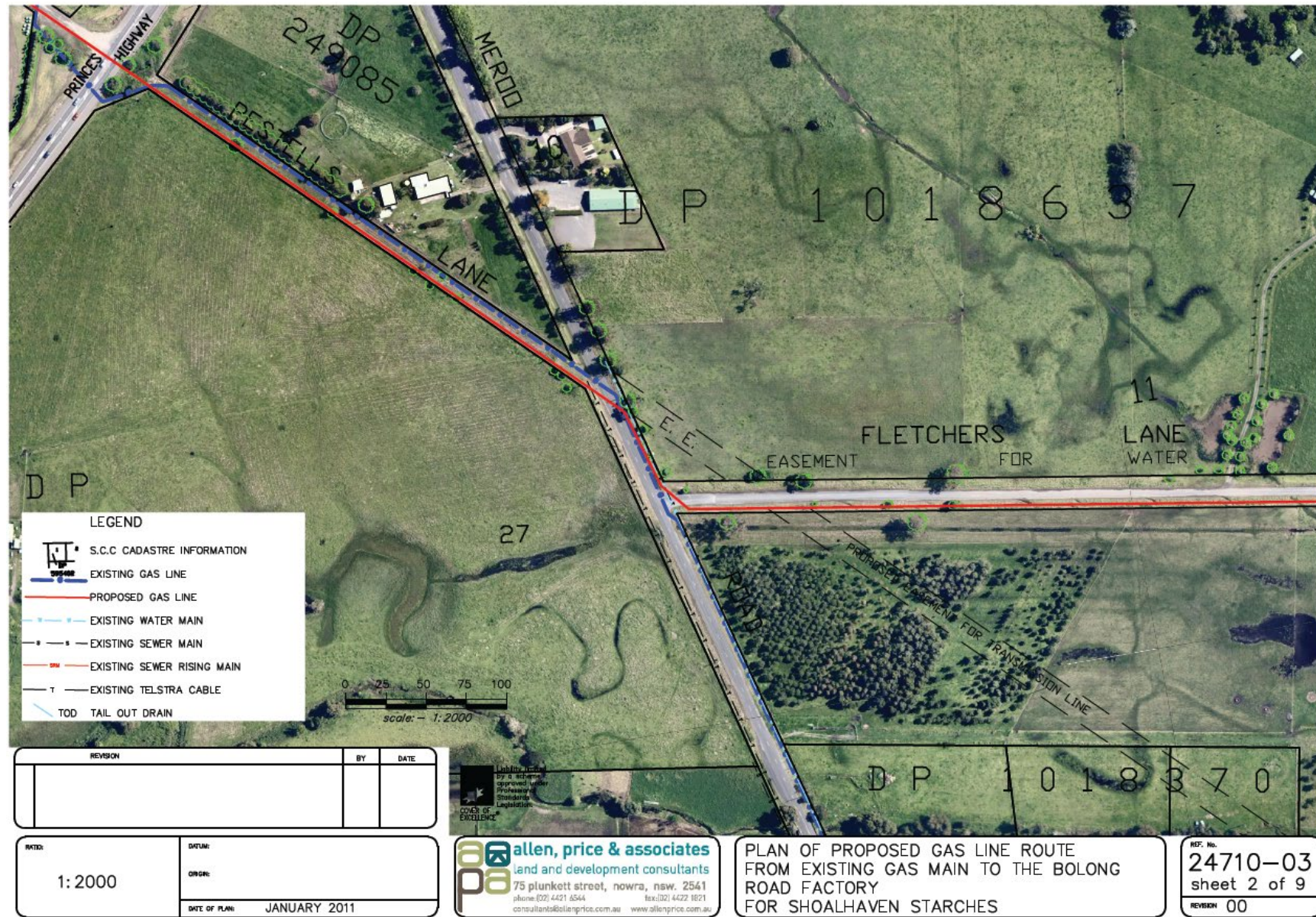
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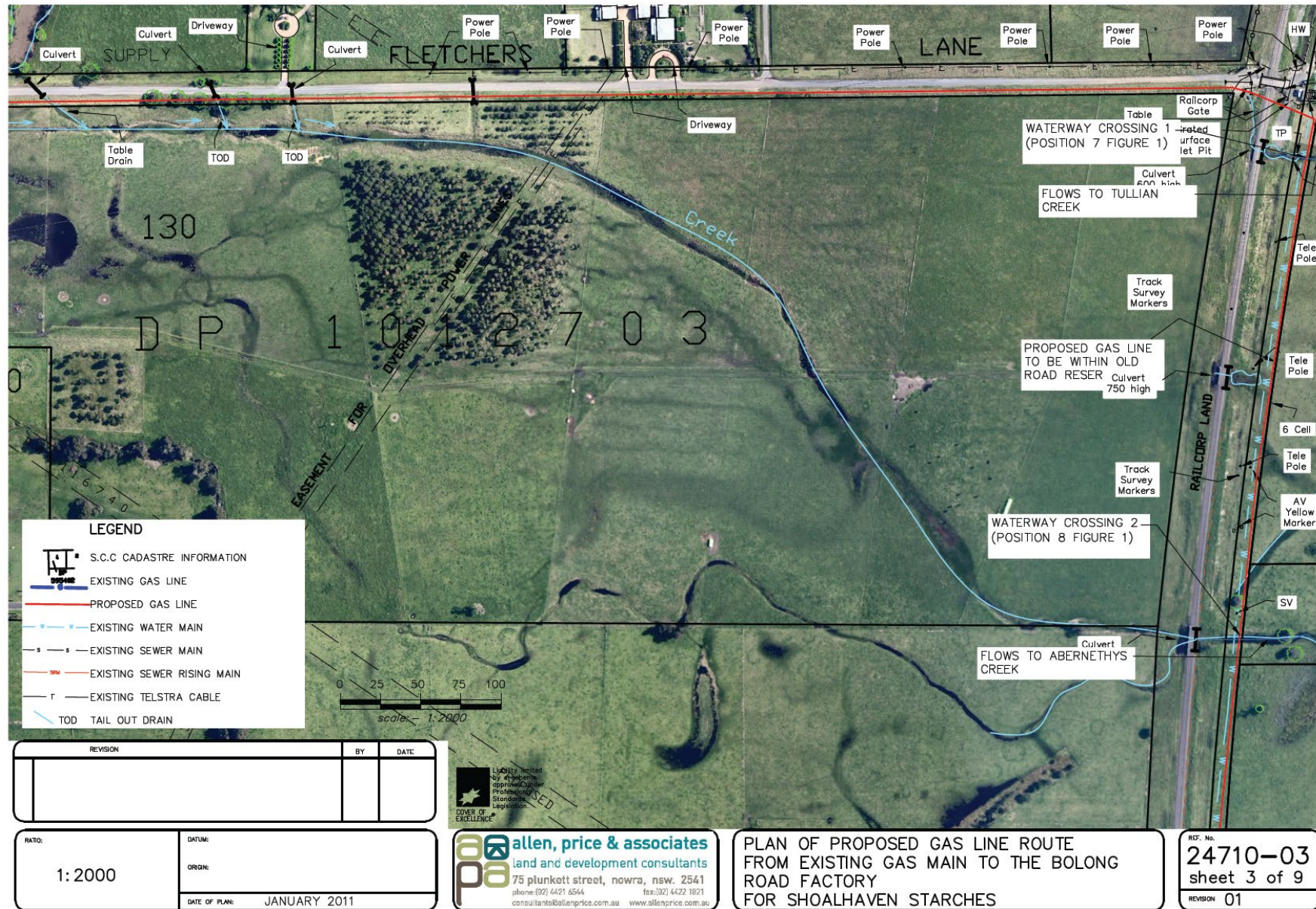
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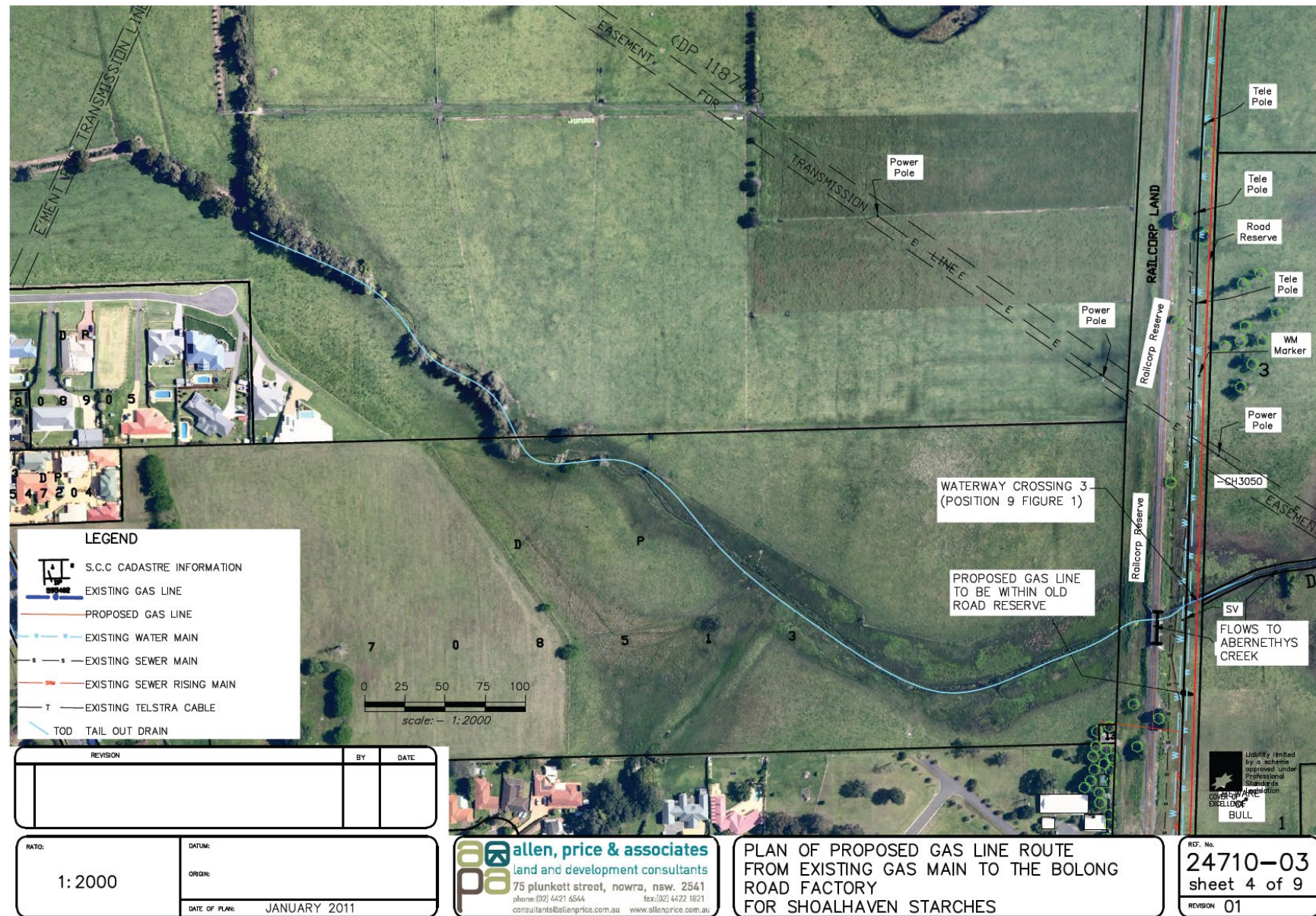


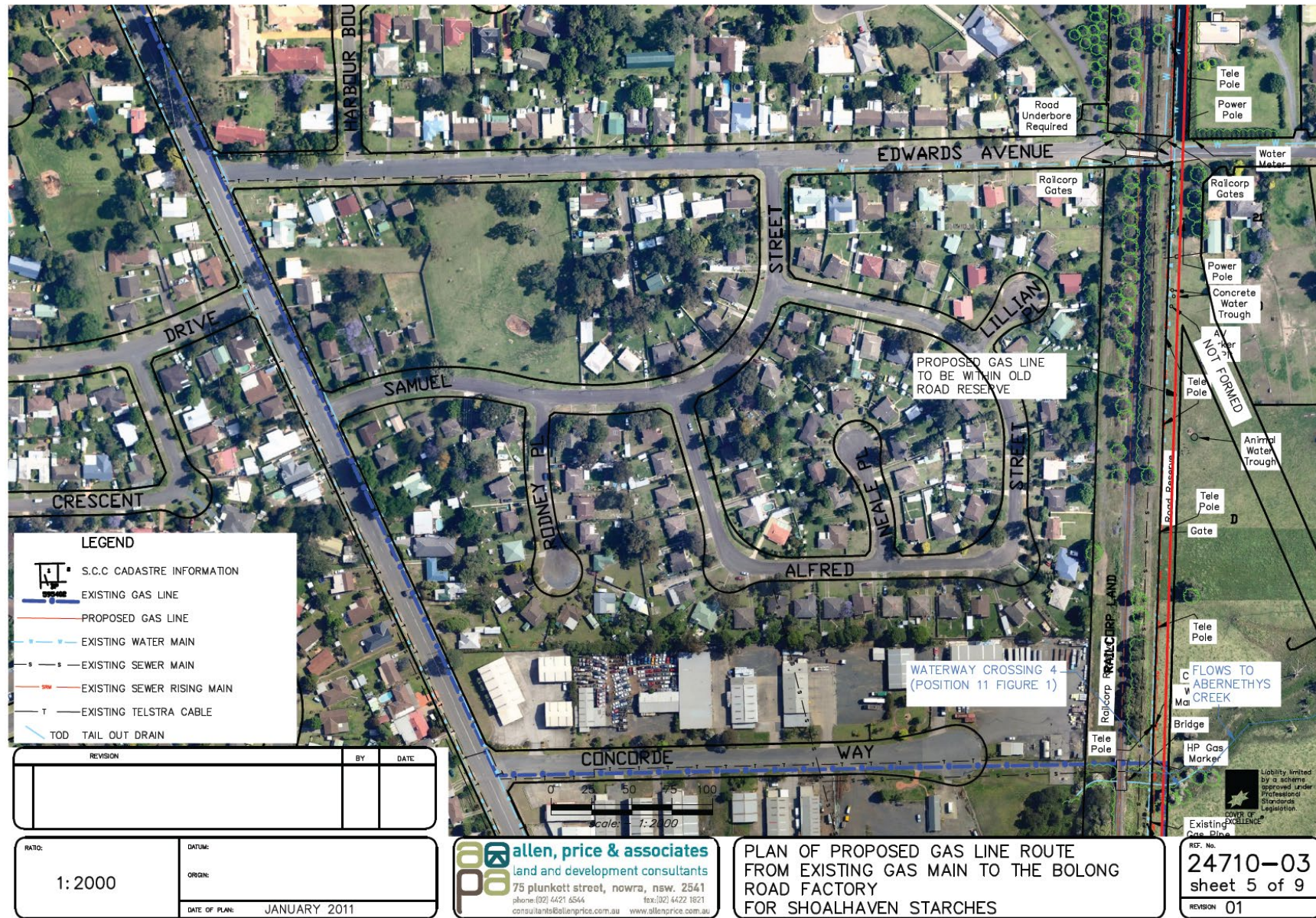
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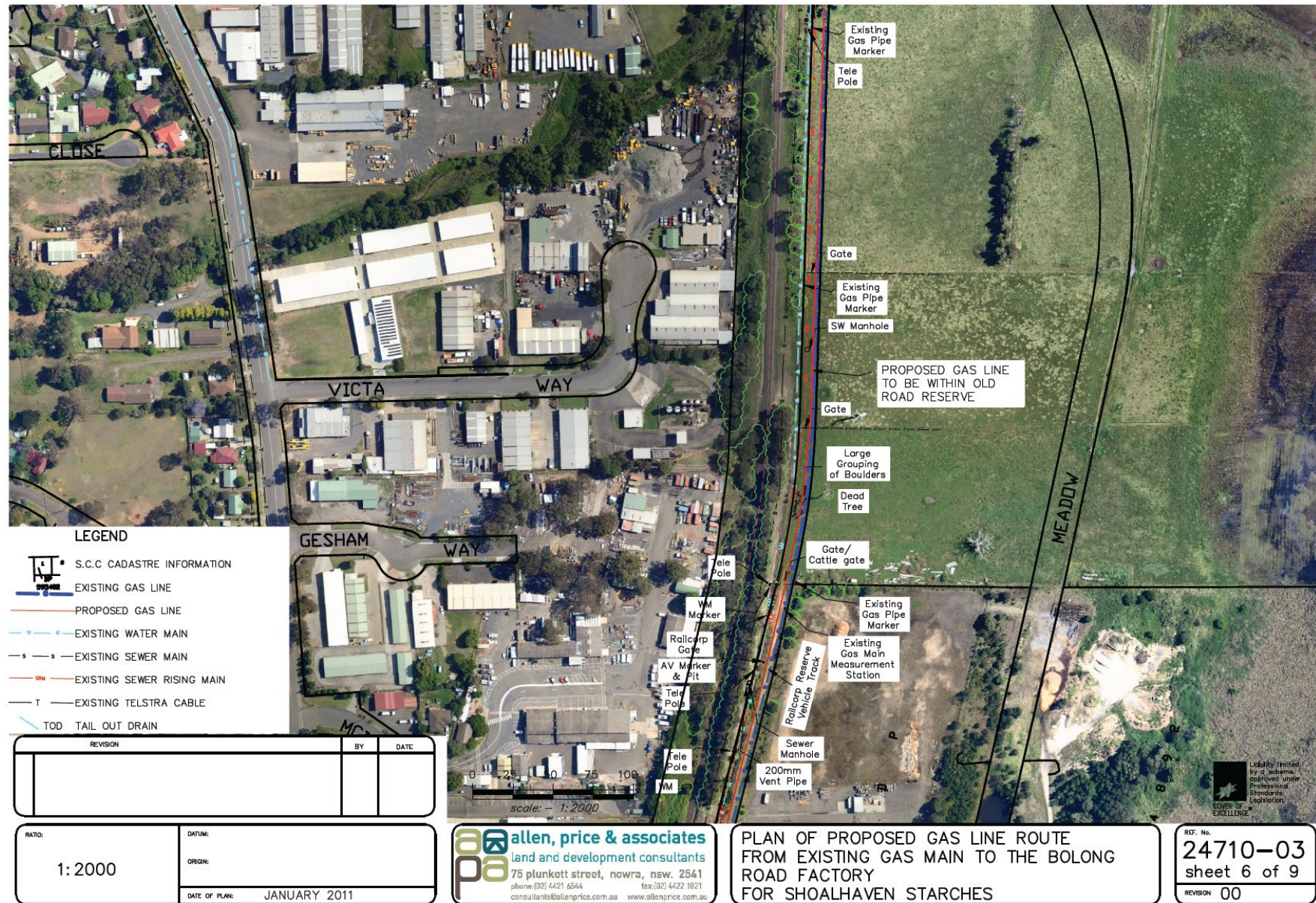


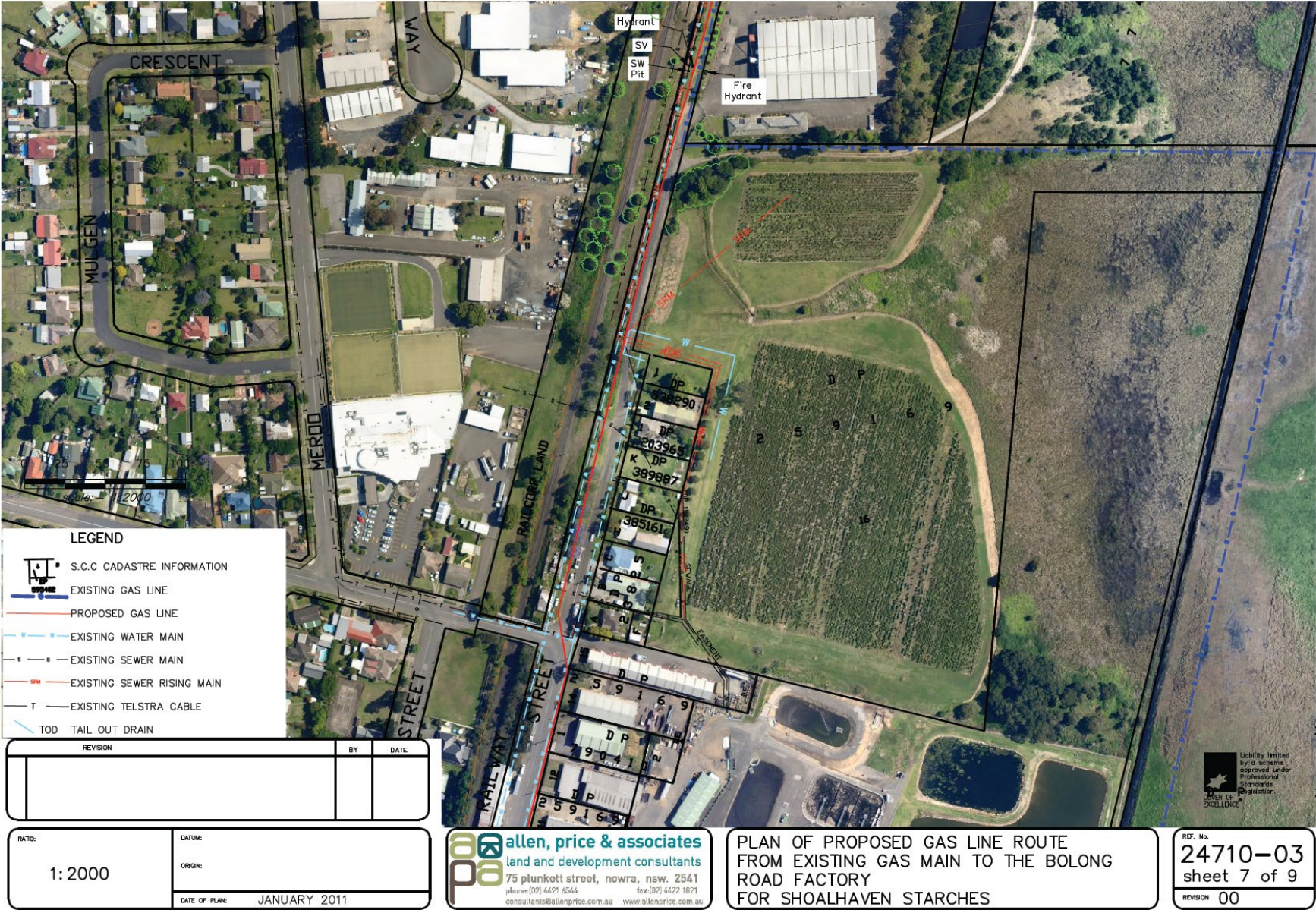












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Project No.	Drawing No.	Revision	Date	Drawing Title
10_0108	MN7297-001	P18	17/12/2021	Gas Facility Mod 1 Overall Site Plan
10_0108	MN7297-002	P14	17/12/2021	Gas Facility Mod 1 Site Plan
7208A	MN7297-004	P09	17/12/2021	Gas Facility Mod 1 Over All Plant Plan
P3792	Q12982Q-G001A	2	28/10/2021	Proposed Layout Gas Pressure Let Down Station
7297	MN7297-101	P06	17/12/2021	Gas Facility Mod 2 Factory Gas Supply Pipeline Site Plan
7297	MN7297-101	P06	17/12/2021	Gas Facility Mod 2 Factory Gas Supply Pipeline Site Plan

APPENDIX B STATEMENT OF COMMITMENTS

<i>Outcomes</i>	<i>Action</i>	<i>Timing</i>	<i>EA Section No.</i>
1. Ecological Management			
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.		
2. Cultural Heritage			
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)

3. Surface and Groundwater Management			
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)

Outcomes	Action	Timing	EA Section No.
	<ul style="list-style-type: none"> with entry and exit points sufficiently setback to allow for desired Category 2 riparian 	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"> • which calls for designed scour depth and safety margin. <p>The water crossing construction method statements are to be submitted to the Office of Water (DP&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)

Outcomes	Action	Timing	EA Section No.
	<p>3.10 Appropriate safety procedures should be implemented for all excavations in accordance with relevant OH&S legislation and the findings and recommendations of the assessment carried out by Coffeys (Annexure 10a).</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 or 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.	
4. Traffic Management			
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"> Access points; Staff parking; Safety management proposals; Traffic management proposals; Consultation and liaison with adjacent property owners who may be affected by construction. 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)

Outcomes	Action	Timing	EA Section No.
5. Air Quality			
Complete proposed development without exceeding OEH air quality	5.1 Dust emissions during construction phase will be managed by implementing best practice dust control measures	When required.	7.5

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criteria objectives.	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
6. Documentation			
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.	
7. Overall Project			
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.	
8. Operating Hours			
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)

Outcomes	Action	Timing	EA Section No.
	8.2 Limit construction materials deliveries along gas pipeline to operating hours as above.	Duration of construction period.	
9. Noise and Vibration			

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"> • Employ the use of broadband audible reversing alarms on all mobile plant. • Avoid dripping materials from a height. • Avoid shouting and talking loudly outdoors. • Avoid the use of radios outdoors that can be heard at the boundary of residences. • Turn off equipment when not being used. • Carry out work only within the recommended hours of operation. 	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)

Outcomes	Action	Timing	EA Section No.
	9.6 Optimise the number of vehicle trips to or from site, <u>i.e.</u> amalgamate loads rather than using more vehicles with smaller loads.	All stages.	7.3
	9.7 Staff parking should be sited away from residential areas	All stages.	7.3

	where practicable.		
	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.	All stages.	7.3
	<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"> • The community liaison officer will approach all potentially affected residences prior to the commencement of works as an initial introduction. • 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. • A contact number will be provided for any residents to call with complaints or queries. <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>	Prior to construction and all stages.	7.3

Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
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	<p>9.10 Managing a Noise Complaint</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 be 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"> • Provide a readily accessible contact point, for example, through a 24 hour toll-free information and complaints line. • Give complaints a fair hearing. • Have a document complaints process, including an escalation procedure so that if a complainant is not satisfied there is a clear path to follow. • 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. 		
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Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
	<ul style="list-style-type: none"> • Provide a quick response to 		

	<p>complaints, with complaint handling staff having both a good knowledge of the project and ready access to information.</p> <ul style="list-style-type: none"> • Implement all feasible and reasonable measures to address the source of complaint. • 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. 		
	<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"> • carry out structural inspection surveys (dilapidation reports) on residences within 30 metres of rock hammering or vibration producing activities; • conduct vibration monitoring at residences within 30 metres of vibration producing works. <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)

Outcomes	Action	Timing	EA Section No.
	9.14 Encourage all employees and contractors to drive in courteous	All stages.	

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	manner and avoid undue generation of traffic noise.		
	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.	
10. Rehabilitation			
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)

Outcomes	Action	Timing	EA Section No.
	10.7 Rehabilitation should include the	Following	

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	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.	construction.	
	10.8 Re-establish previous land uses as soon as practicable after trench backfilling.	As area becomes available.	7.4.1
	10.9 Ensure land profile is re-established to previous or agreed condition.	Ongoing with periodic monitoring.	7.4.1
	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. 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.	Ongoing.	7.4.1

Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
	10.11 Monitor corridor for weed	Ongoing.	7.4.1

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	species growth.		
	10.12 Undertake weed control and eradication where needs identified.	Ongoing / project life.	7.4.1
11. Waste Management			
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.	
12. Consultation			
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.	
13. RailCorp Requirements			
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	

Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
	13.3 Prior to the issue of a	Prior to construction	

	<p>Construction Certificate Shoalhaven Starches will engage an Electrolysis Expert to prepare a report on the Electrolysis Risk to the development from stray currents. Shoalhaven Starches must incorporate in the development all the measures recommended in the report to control that risk. A copy of the report is to be provided to the Principal Certifying Authority with the application for a Construction Certificate.</p>		
	<p>13.4 Prior to the issue of a Construction Certificate Shoalhaven Starches will undertake a Risk Assessment / Management Plan and detailed Safe Work Method Statements (SWMS) for the proposed works are to be submitted to RailCorp for review and comment on the impacts on rail corridor. The Principle Certifying Authority shall not issue the Construction Certificate until written confirmation has been received from RailCorp confirming that this condition has been satisfied.</p> <p>No metal ladders, tapes and plant/ machinery, or conductive material are to be used within 6 horizontal metres of any live electrical equipment. This applies to the train pantographs and 1500V catenary, contact and pull-off wires of the adjacent tracks, and to any high voltage aerial supplies within or adjacent to the rail corridor.</p>	<p>Prior to construction</p> <p>During construction</p>	
	<p>13.5 Shoalhaven Starches commit to provide a plan of how future maintenance of the development facing the rail corridor is to be undertaken. The maintenance plan is to be submitted to RailCorp prior to the issuing of the Occupancy Certificate. The Principle Certifying Authority shall not issue an Occupation Certificate until written confirmation has been received from RailCorp advising that the maintenance plan has been prepared to its satisfaction.</p>	<p>Prior to construction</p>	

Table 39 (continued)

Outcomes	Action	Timing	EA
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			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	
14. Shoalhaven Water Requirements			
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	
	<p>14.2 Shoalhaven Starches commit to providing adequate clearance to be provided between water and sewerage infrastructure and the proposed gas main.</p> <p><i>Designs in relation to sewer infrastructure 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></p> <p><i>Designs in relation to water infrastructure shall be designed/constructed/installed in accordance with the clearances as stated in the Water Services Association of Australia - Sewerage Code of Australia – WSA 02-2002 Version 2.3 and</i></p>	During construction	

	<p><i>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)

Outcomes	Action	Timing	EA Section No.
	<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 20th 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 accordance with Shoalhaven Water's Levels of Customer Service for design checking (7 working days) subject to the</p>	During construction	

	<p>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"> - Listed inspections in Shoalhaven Water's approvals (including re-inspections), - Requested inspections (by the contractor or subcontractor or Shoalhaven Starches) including re-inspections, - Requested site visits (by the contractor or subcontractor or Shoalhaven Starches), - 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), - 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. 		
	<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>	Prior to construction	
15. Roads & Maritime Services (TMS) Transport Requirements			
To satisfy requirements of RMS.	<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>	Prior to construction	
	<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>	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.</p> <p style="color: red;">Underboring of the Princes</p>	Prior to construction	

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	Highway shall ensure that the pipe is located a minimum of 1.5 m below the open drainage structure/channel on the western side of the roadway.		
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Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
	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	

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	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.	Prior to construction	
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Table 39 (continued)

Outcomes	Action	Timing	EA Section No.
	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.	Prior to construction	
16. Reducing Impacts to Stock at 62 Edwards Avenue, Bomaderry			
To reduce impacts of construction works on horses kept at 62 Edwards Avenue, Bomaderry (the Apperley premises) in response to public submissions.	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.	Prior to construction occurring along frontage of 62 Edwards Avenue, Bomaderry.	

APPENDIX C NOISE RECIPIER LOCATIONS

