







REPORT

Supporting Information Report - High Voltage and Fibre Optic Cable - Regional Interests Development Application

Q-4094-15-EA-0004_02

Australia Pacific LNG Upstream Project

Supporting information report to authorise construction of high voltage and fibre optic cable located within a Strategic Cropping Area on Lot 35 on Plan BWR450 and Lot 36 on Plan SP116140.

Revision	Date	Description	Originator	Checked	QA/Eng	Approved
0	08/04/2016	Issued for Use	 L Appleby	S Dale 	S Dale 	T Hatfield 

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1. Introduction

1.1. Overview

Origin Energy Resources Limited, as the upstream operator of Australia Pacific LNG Pty Limited (Australia Pacific LNG), has prepared this supporting information report to accompany an application under Section 28 of the *Regional Planning Interests Act 2014* (RPI Act) to the Department of Infrastructure, Local Government and Planning (DILGP).

This application relates to the construction and operation of the Talinga Condabri Interconnecting Pipeline (TCIP) high voltage (HV) and fibre optic cable located on Lots 35BWR450 and 36SP116140 (refer to Figure 1, GISWR_30658). The HV cable is required for the electrification of the Talinga Development Area and the fibre optic cable is required for the communication network which will enable the wells in the Talinga gasfield to be remotely monitored and controlled. Collectively, the cables (HV and FOC) will generally be installed within the same trench as the Australia Pacific LNG pipeline, TCIP. TCIP is a pre-existing approved activity, constructed under Petroleum Pipeline Licence (PPL) 2000 and the cable is a stated incidental activity of the PPL.

Australia Pacific LNG intends to carry out a resource activity (installation of cable) in an area of regional interest (ARI) and will apply for a site specific environmental authority for the resource activity. The ARI relevant to this application is Strategic Cropping Area (SCA).

This application includes:

- Cover letter (Q-4094-15-EA-004, refer to Appendix A)
- Completed DILGP application form (Version 2.0) (Q-4094-15-EA-0004_01, refer to Appendix A)
- Supporting Information Report (Q-4094-15-EA-004_02) (this document).

The values sought to be protected by the RPI Act are still achieved whilst allowing Australia Pacific LNG to plan and install the cable required for the safe electrification of the Talinga Development Area and associated communication network. Figure 1 provides an overview of the proposed located of the trench subject to this assessment application.

1.2. Document References and Abbreviations

In support of this application, associated documents are presented in Table 1, and appended where relevant.

Table 1: Associated Document References

Document Number	Title	Attachment
External	AS/NZS 3000 Electrical Installations (known as the Australian / New Zealand Wiring Rules)	NA
Q-4093-15-RP-0005	TCIP Ecology Assessment Report	Appendix A
Q-4094-15-EA-0001	Cover letter	Appendix A
Q-4094-15-EA-0001_01	Application form	Appendix A
Q-LNG01-15-MP-0107	Australia Pacific LNG Remediation, Rehabilitation, Recovery and Monitoring Plan	Appendix A
Q-LNG01-15-MP-1005	Australia Pacific LNG Construction Environmental Management Plan	Appendix A

Table 2: Abbreviations

Abbreviation	Description
ARI	Area of Regional Interest
CSG	Coal Seam Gas
DILGP	Department of Infrastructure, Local Government and Planning
EA	Environmental Authority

Abbreviation	Description
EHP	Department of Environment and Heritage Protection
EP Act	<i>Environmental Protection Act 1994</i>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
FA	Financial assurance
GPF	Gas Processing Facility
Ha	Hectare
HV	High Voltage
PL	Petroleum Lease
PPL	Petroleum Pipeline Licence
RIDA	Regional Interests Development Approval
ROW	Right of Way
RPI Act	<i>Regional Planning Interests Act 2014</i>
SCA	Strategic Cropping Area
SCL	Strategic Cropping Land
TCIP	Talinga Condabri Interconnecting Pipeline

1.3. Revision History

Table 3: Revision History

Date	Revision Number	Description of changes

2. Description of Resource Activities

2.1. Background

The TCIP is a partially constructed petroleum pipeline that is authorised under PPL 2000 and EA EPVX03338615. The TCIP is designed to transfer unprocessed coal seam gas (CSG) from the Talinga gas field to the Condabri Central gas processing facility (GPF). HV and fibre optic cables are located within the existing ROW of the TCIP and are designed to provide electrification and remote communications with CSG wells in the Talinga development area via tie-ins at each end of the TCIP.

HV and fibre optic connection at the Condabri tie-in end of the TCIP has not been possible and the HV and fibre optic cables are required to extend beyond the current footprint of the TCIP ROW and connect directly to Condabri HV Kiosk south of the Condabri Central GPF. Figure 1 shows the proposed route for the extension of the HV and fibre optic cables. The Condabri HV Kiosk is also proposed infrastructure, however is not located on an ARI, therefore is not subject to this application.

Both the PPL and EA are undergoing amendment applications to authorise the extension of the HV and fibre optic cables beyond the current footprint of TCIP.

2.2. Resource Activities

Construction and operation of the cables and associated ROW will require the following activities to be conducted:

- Disturbance to land of up to 2.5km long, with an 18m corridor to allow for equipment / machinery, access and use, stockpiling, work areas etc. 18m width will be the maximum corridor required, however, where possible the corridor will be a reduced width of 12m or less
- Excavating a trench
- Laying the cables
- Restoring the vegetation corridor
- Undertaking maintenance and surveillance activities during operations
- Decommissioning at completion of the project (approximately 50 years)

The following activities are not required to be undertaken for this project:

- Laydowns / stockpiles outside the 18m wide ROW
- Onsite accommodation facilities
- Dedicated stand alone access track after the ROW has been restored, as an existing access track will be utilised for the life of the project

3. Legislative Context

3.1. Owner

The applicant, Australia Pacific LNG Pty Limited, is the owner of the following land for which this application is relevant:

- Lot 35 on Plan BWR450; and
- Lot 36 on Plan SP116140

Collectively the Lots are referred to the 'Wilgas' property.

3.2. Location of Development

The construction of the proposed cable installation is within Lots 35 BWR450 and 36 SP116140 (refer to Figure 1). The majority of the proposed disturbance will occur within Lot 35 BWR450, with only a small portion of the cables located on lot 36 SP116140.

The Wilgas property was purchased in 2011 and is located on McLennan's Road, Miles. The total land area of the property is approximately 645 ha. The property is entirely within the Western Downs Regional Council Local Government Area and has previously been subject to broadscale vegetation clearing and agricultural production.

A review of the Department of Infrastructure, Local Government and Planning DA mapping system of ARI has identified that the 'Wilgas' property is located within a SCA and is Strategic Cropping Land (SCL).

ArcGIS Shapefiles to a projected coordinate system of GDA94 accompanies this application and identifies the location of the activity.

3.3. Pre Activity Land Condition

3.3.1. Lots 35 BWR450 and 36 SP116140 (the 'Wilgas' property)

3.3.1.1. Current Land Use

Lots 35 BWR450 and 36 SP116140 are characterised by broad scale clearing, with both developed and pasture country. The landscape is significantly modified due to historic agricultural practices, including land clearing, grazing and feed lot activities.

No cropping activities are currently conducted on the property, nor are they proposed by Australia Pacific LNG. Beef cattle are present on the property with the objective to reduce fire fuel loads, especially in close proximity to major gas infrastructure located on the property.

No homesteads, garages, houses, machinery sheds or grain silos are located on site. An old set of timber cattle yards is present on site, however are not utilised by the landholder due to their condition.

Scattered vegetation is located on the property, including regional ecosystem (RE) 11.5.1 (*Eucalyptus crebra*, *E. populnea*, *Callitris glaucophylla*, *Angophora leiocarpa* and *Allocasuarina luehmannii* woodland) as well as the presence of remnant endangered brigalow communities within the southern extent of the property.

3.3.1.2. Soil Characteristics

The 'Wilgas' property is located within the Eastern Downs subregion of the Brigalow Belt bioregion. The landform of the site reflects gently undulating plains to rises associated with the edges of Brigalow plains or dissected and laterised sandstone remnants. Soil units across the site are relatively uniform and predominantly comprise texture contrast soils (chromosols/sodosols and/or kurosols) with a shallow, mainly loamy surface which is acid or alkaline.

Soil assessments were conducted for the proposed construction area to determine the depth of topsoil removal and the soil type. Across the site, 2 soil types were present, being soil type 2c and 5b. For soil type 5b the A horizon was described to be comprised of heavy dark cracking clay. For soil type 2c, the A horizon was described to be comprised of friable brown soil. The recommended topsoil stripping for both soil types present on the site is 300mm.

3.4. Surrounding Land Uses

The existing land use on surrounding land within a 1 km radius of the boundaries of the disturbance area subject to the application have been described in Table 4.

Table 4: Surrounding Land Use

Lot Plan	Landholder	Area of Regional Interest	Location in Relation to Proposed Disturbance	Description of Existing Land Use on Surrounding Land
Lot 3BWR1	Australia Pacific LNG (the 'Lower Heatherley' property)	SCA	West of the 'Wilgas' property	The property is predominately used for the placement of CSG infrastructure, cropping and cattle grazing. Paddocks are present on the property which includes cultivation crops (400ha at present) including wheat, chickpeas, sorghum and mungbeans. A plan for the future is to plant the cultivation area back to improved pasture. The current carrying capacity for grazing is 100 AE.
Lot 17BWR98	Murray Robert Geldard	SCA	Directly north of the 'Wilgas' property	The property is predominately cleared for agricultural purposes, with small remnant patches of endangered brigalow RE 11.4.3. Several dams and CSG infrastructure is located on the property.
Lot 2SP144176	Gary Ronald Howson	SCA	North-west of the 'Wilgas' property	The property is predominately cleared for agricultural purposes, with small remnant patches of endangered brigalow RE 11.4.12. Small dams and several homesteads are present on the property.
Lot 2SP245919	Australia Pacific LNG (the 'Kooralbyn' property)	SCA	West of the 'Wilgas' property	The property is predominately used for the placement of CSG infrastructure. The property contains the Condabri Central GPF, Condabri Central Water Treatment Facility, as well as pipeline and water networks. Some vegetation lines are present on the property.

It should be noted that the listed surrounding properties have a similar land use to the 'Wilgas' property. All landholders have been consulted in regards to the proposed surrounding CSG activities in the area.

4. Management of Mitigation Measures

4.1. Nature of Surface Impact

The nature of surface impact to SCL will involve the following:

- A maximum of 0.10 ha of disturbance of SCL on Lot 35 BWR450
- A maximum of 2.4 ha of disturbance to SCL on Lot 36 SP116140

The nature of surface impact to SCL will involve disturbance of up to 2.5 ha (Lots combined) to the existing land use, consisting of up to 2.5 km of 22kV cable and fibre optic cable on SCL. Following completion of the construction and reinstatement phases of the cable, normal agricultural activities will recommence without impact, with the exception of a 10 operational corridor which will remain in place for the life of the project (maximum of 50 years when TCIP will be decommissioned). No cropping with me possible within this 10m operation corridor until rehabilitation occurs.

The activity will not result in a material impact on SCL on the property or on the SCL in the area due to the management of mitigation measures described in Section 0 and the small percentage of disturbance comparable to the mapped SCL of the property (less than 2%). The land can be restored to pre-existing land condition.

4.2. Extent and Duration of Impact

The installation of the cable is scheduled to be completed within two (2) months. Backfilling of trenches and reinstatement of topsoils will occur within three (3) months after laying the cable. Reinstatement and revegetation of the cable ROW will commence within six (6) months after the completion of the activity. Progressive reinstatement will occur and be completed in accordance with the Australia Pacific LNG Rehabilitation, Remediation, Recovery and Monitoring Report (Q-LNG01-15-MP-0107) and conditions of the TCIP EA.

Following decommissioning, it is proposed that the infrastructure will be left in the ground to minimise further disturbance to land. However, legislation at the time may have changed and it is recommended that this is addressed at the time with the relevant government department.

4.3. Assessment of Alternatives

4.3.1. Attempts to Avoid and Minimise Impact

During the assessment process of the determining the alignment of the cables, key aspects were considered as described in Table 5. Comments are provided as justification for the preferred location.

Table 5: Considerations for Siting Cable

Aspect	Requirements	Comments
Environment	<ul style="list-style-type: none"> • Avoid, minimise or mitigate impacts to areas of regional interest 	<ul style="list-style-type: none"> • The proposed cable minimises impacts to Strategic Cropping Land by the following: <ul style="list-style-type: none"> - Being adjacent to the perimeter of the western property boundary to minimise interference with farming operations - Being minimised to the smallest disturbance area practicable to successfully install the cables (allowing for stock piling areas, erosion and sediment controls etc) <p>There is no alternative location which entirely avoids disturbance to SCL due to the surrounding land being mapped as SCA (refer to Figure 1).</p>

Aspect	Requirements	Comments
	<ul style="list-style-type: none"> Avoid, minimise or mitigate (in order of preference) any impacts on vegetation or other areas of ecological value. Minimise disturbance to land that may result in land degradation 	<ul style="list-style-type: none"> The proposed cable alignment avoids impacts on ecological values such as species identified under the <i>Nature Conservation Act 1992 (Homopholis belsonii)</i> (refer to Figure 3). The disturbance area required within vegetated areas (RE 11.4.3) has been reduced from a maximum of 18m corridor to a 7m (approx.) corridor. This will reduce impacts to the vegetation in the area however stockpiling of woody debris/soils will be stocked elsewhere on the ROW (i.e. within previously cleared ROW between 12m to 18m) (refer to Figure 3). Minimum disturbance area for carrying out the activity has been designed throughout the extent of the cable
	<ul style="list-style-type: none"> Preferentially located along existing disturbed areas 	<ul style="list-style-type: none"> The cable is preferentially located alongside the western boundary of the properties where infrastructure (fence line) is existing
Landholder	<ul style="list-style-type: none"> Limit impacts to landholder infrastructure 	<ul style="list-style-type: none"> The location of the cable minimise interference with the landholders existing activities on the property by being located alongside the western property boundary
Technical and Commercial	<ul style="list-style-type: none"> Avoids impacts to existing infrastructure and minimises crossing live assets 	<ul style="list-style-type: none"> The cables are required to traverse the properties (north to the south) to tie-into the Condabri HV Kiosk. The Condabri HV Kiosk will be located within the southern extent of the existing Condabri Central GPF, therefore, requiring the cables to go around the existing facility in order to avoid impacts to this facility. The proposed alignment of the cable avoids impacts to existing infrastructure (GPF, electrical transmission line and transmission pipeline) and the associated live wires. Where crossing of these existing assets is required, the crossing occurs perpendicular to the existing linear infrastructure.
	<ul style="list-style-type: none"> Minimises the length of required cable 	<ul style="list-style-type: none"> The proposed alignment of the cable is the most direct route to the Condabri HV Kiosk and avoids additional disturbance to land than alternative routes
	<ul style="list-style-type: none"> Tie-in to a reliable power source 	<ul style="list-style-type: none"> The cable is required to tie-in to the Condabri HV Kiosk will be constructed south of the Condabri Central GPF. The HV Kiosk will source power from the GPF.

Alternative locations were proposed, such as entering the GPF to the north of Lot 2SP245919 (refer to Figure 4), however was not considered viable due to the following reasons:

- The Condabri HV Kiosk substation will be located at the southern end of the existing Condabri Central GPF and will source the electrification of the cables. This alternative will require the cables to end the northern extent of the Condabri Central GPF and will require the cables be constructed within the disturbance footprint of the Condabri Central GPF which will interfere with existing infrastructure (Condabri Central GPF). The preferred alignment avoids this interference.
- The alternative location will be required to traverse existing electrical infrastructure (electrical transmission line and associated 100m easement) which pose significant safety concerns.
- The option would require crossing live wires and pose permitting constraints. The current location crosses perpendicularly to the existing infrastructure, and reduces the likelihood of striking the powerlines.

No other alternatives were considered appropriate for the construction of the cables which would completely avoid impacts to SCL due the extensive SCA mapped within the surrounding vicinity of the site (refer to Figure 1). As such, the proposed location will minimise impacts to SCL to the greatest extent possible and is the preferred location due to the following:

- In the northern extent of the cable, the route follows an existing access track. This alignment will reduce the need for an additional stand alone access track, therefore minimising disturbance to SCA (refer to Figure 2).
- The cable infrastructure avoids interference with the existing land use of the Wilgas property by being collocated with the western fence boundary. By co-locating the cable with existing linear infrastructure, it will reduce impacts to the potential of the SCL.
- Minimises impacts to endangered RE 11.4.3 and avoids clearing of *Homopholis belsonii*. The construction corridor is minimised where these environmental values are present in order to reduce impact (corridor reduced from between 12m-18m to 7m). 18m width for the ROW will be used only when absolutely necessary. 12m width will be used in the majority of locations where the ROW is not required for temporarily stockpiling of debris, soils or habitat features. This additional stockpiling requirement will occur on the ROW adjacent to the 7m corridors. These 7m corridors will occur within the most southern extent of the cable ROW. The ROW is reduced to 7m in this area as it traverses endangered regional ecosystem 11.4.3 and is proximal to an endangered grass (*Homopholis belsonii*). It should be noted that the direct take of this species will not occur, however, a clearing permit under the *Nature Conservation Act 1992* will be obtained for the clearing within 100m of a threat-listed plant.
- The cable is required to connect into Condabri HV Kiosk Substation located at the southerly end of the Condabri Central GPF. To achieve this, the cable takes the most direct route to the tie-in location in order to minimise disturbance to land, whilst adhering to safety standards.

It is considered that the proposed location of the cable will minimise impacts to SCL by being aligned against the boundaries of the property to avoid future cropping area activities, whilst maintaining a safe installation route to provide electrification and communication networks to the Talinga gas field.

4.4. Construction Activities

Australia Pacific LNG will clear and operation solely within an 18m corridor for the duration of the construction period. Where possible, the construction corridor will be limited to 12m where the cleared has previously been cleared. In areas of endangered vegetation (RE 11.4.3), the corridor will be reduced to approximately 7m to limit impacts to the vegetation. This construction corridor is not possible throughout the entire length of the cable ROW as it does not allow efficient room for stockpiling and effective erosion and sediment controls. In areas of 7 m corridors, woody debris, habitat features and soil stockpiling will be stored elsewhere within the disturbance area (i.e. in areas of 12-18m corridors).

A typical 12m corridor (the preferred width) will include the following:

- 2m width for topsoil stockpile on access track
- 4m width for access track
- 1m buffer between operation area and traffic
- 4m operating area for Vermeer and cable tractor (7500 width trench)
- 1m width mulch allowance on working side

For a 18m corridor, additional topsoil stockpiling and erosion and sediment control areas will be incorporated in the corridor design.

The cable tractor will install the cable which will be buried to a minimum depth of 900mm on the 'Wilgas' property. This depth will allow for the cable to not impact upon future cropping activities.

Construction is scheduled to be completed within 2 months from commencement. The construction disturbance area has been kept to the minimum area required to undertake the activity to minimise impact to SCA and existing vegetation. The disturbance area will not exceed 2.5 ha, however, is expected to be smaller, where possible during construction.

The cable will be installed in accordance with Origin Energy's internal technical specification and in accordance with Australian Standards (AS/NZS 3000 Electrical Installations).

Australia Pacific LNG will minimise impacts to SCA by ensuring that all construction activities are conducted in accordance with the Australia Pacific LNG Construction Environmental Management Plan (CEMP) (Q-LNG01-15-MP-1005). The CEMP provides details on how all construction activities are to occur and how environmental harm will be mitigated. Specifically relevant to this application, mitigation measures will include:

- Implementing and maintaining sediment and erosion control measures to prevent soil loss and deposition beyond significantly disturbed land
- Erosion and sediment control measures will be in accordance, to the greatest practicable extent, with the International Erosion Control Association (IECA) *Best Practice Erosion and Sediment Control (BPESC) document* and/or the Australian Pipeline Industry Association (APIA) *Code of Environmental Practice: Onshore Pipelines* (2009)
- No vegetation will be cleared, unless absolutely necessary for the purposes of installing the cable

All vegetation required to be cleared along the ROW will be taken and either stockpiled (grasses) or mulched (woody vegetation). Topsoil and subsoils will be stored separately. Measures will be implemented and maintained to minimise stormwater entry onto significantly disturbed land.

Detailed erosion and sediment control (ESC) measures will be maintained and regularly inspected, particularly prior to, and immediately following, any forecast wet weather. Generally, works will be temporarily ceased during wet weather to minimise impacts to the land and soil runoff.

Where cattle are present on the property, temporary fencing will be constructed to ensure that the topsoil stockpiles are not disturbed.

4.5. Reinstatement

All reinstatement will be carried out in accordance with the following Australia Pacific LNG documents (Appendix B):

- Rehabilitation, Remediation, Recovery and Monitoring Plan (Q-LNG01-15-MP-0107)
- Construction Environmental Management Plan (Q-LNG01-15-MP-1005)
- The Environmental Authority (EPVX03338615)
- The RIDA, once granted

All subsoil and topsoil will be replaced during reinstatement of the ROW. Having been stored separately, topsoil will largely retain its viable seed bank. From experience elsewhere on the Australia Pacific LNG project, this is determined to be adequate to ensure regrowth of grasses.

The landform will be reinstated to its original contours following completion of backfilling. The area will be fully returned to pre-activity condition.

4.6. Operation Activities

All affected land will be returned to its pre-project landform and land use in accordance with Conditions of the EA. Once backfilled, reinstated and revegetated, the ROW will be:

- A stable landform
- Re-profiled to a level consistent with surrounding soils
- Re-profiled to original contours and established drainage lines
- Vegetated with groundcover that is not a declared pest species, and which is established and self-sustaining

Australia Pacific LNG will maintain a photographic record, as required under the Rehabilitation, Remediation, Recovery and Monitoring Plan (Q-LNG01-15-MP-0107).

The operational footprint will include a 10m wide easement. Livestock farming would not be considered to be impacted during the operational activities, however, no cropping can occur within the operational corridor.

4.7. Decommissioning

The cable will be decommissioned and left buried to a minimum depth of 900m. Decommissioning will be undertaken in accordance with the relevant legislation at the time of decommissioning, expected to occur in less than 50 years.

After decommissioning, all significantly disturbed land caused by the carrying out of the cable construction will be rehabilitated in accordance with the following final acceptance criteria:

- (a) Any contaminated land (e.g. contaminated soils) is remediated and rehabilitated
- (b) Rehabilitation is undertaken in a manner such that any actual or potential acid sulfate soils on the area of significant disturbance are treated to prevent or minimise environmental harm in accordance with the *Instructions for treatment and management of acid sulfate soils (2001)*
- (c) For land that is not being cultivated by the landholder:
 - i. groundcover, that is not a declared pest species is established and self-sustaining
 - ii. vegetation of similar species richness and species diversity to pre-selected analogue sites is established and self-sustaining
- (d) For land that is to be cultivated by the landholder, cover crop is revegetated, unless the landholder will be preparing the site for cropping within 3 months of petroleum activities being completed

5. Financial Assurance

Australia Pacific LNG currently holds \$632,800.00 in financial assurance (FA) for the TCIP (PPL 2000). This FA will provide for the rehabilitation of the land back to its original landform. As the FA will be recalculated during the EA amendment process, Australia Pacific LNG does not propose to provide any further FA for this application.

6. Public Notification

Australia Pacific LNG is the landholder of the property under which this application is being sought. Due to the nature of the project proposed being similar to the existing activities in the area, along with the applicant being the landholder, no further public notification is being proposed. PPL 2000 (which is being amended to authorise this cable was publicly notified for the during the tenure application.

The surrounding landholders outside Australia Pacific LNG properties are frequently consulted by Australia Pacific LNG due to existing construction and operations of CSG activity in the area.

Due to the volume of petroleum activities in the area, it is not considered that any new impacts will occur and that any additional value would be gained from public notification of this RIDA.

In addition, the proposed construction is within the Australia Pacific LNG Environmental Impact Statement (EIS) study area. Evidence of public notification of the Australia Pacific LNG EIS can be found here: <http://www.statedevelopment.qld.gov.au/assessments-and-approvals/australia-pacific-lng-project.html>. Due to previous public notification, Australia Pacific LNG requests to be exempt from the requirement to publicly notify this application.

7. Assessment Application Fees

The definition of an expected area of impact for an assessment application means the area in which:

- (a) The activity is proposed to be carried out; and
- (b) Carrying out the activity is likely to have an impact

The expected area of impact relating to this application is less than 30 ha and therefore, in accordance with the RPI Act Guideline (01/14), the application fee accompanying this application is \$5,844.00. The application fee will be provided by direct payment.

8. Approvals and Decisions in Place

The Project will be constructed and operated in accordance with all Australia Pacific LNG existing approvals, including:

- *Environment Protection and Biodiversity Conservation (EPBC) Act 1999* approval 2009/4974
- The Coordinator General's Report for the Australia Pacific LNG Project
- The internal disturbance approval process
- PPL 2000
- TCIP Environmental Authority (EA) EPVX03338615

9. Guidelines, Standards and Codes of Practice

The following Department of State Development, Infrastructure and Planning (DSDIP) guidelines have been consulted during the preparation of this RIDA:

- Guideline 01/14: How to make an assessment application for regional interest development application under the RPI Act
- Guideline 03/14: Carrying out activities in strategic cropping area
- Guideline 06/14: Public notification of assessment applications
- Guideline 09/14: How to determine if an activity has a permanent impact on strategic cropping land

10. Required Outcome Assessment

Schedule 2, Part 4 of the *Regional Planning Interests Regulation 2014* sets out the required outcome and prescribed solutions for activities carried out in an SCA. Refer to Table 6, Table 7 and Table 8 for the evidence associated with each prescribed solution.

Table 6: SCA Assessment Criteria - Required Outcome 1

Required Outcome 1 - No impact on strategic cropping land	
The activity will not result in any impact on strategic cropping land in the strategic cropping area	
Prescribed Solution	Evidence / Response
PS1: The application demonstrates the activity will not be carried out on strategic cropping land that meets the criteria stated in schedule 3, part 2.	The application does not seek to demonstrate that the area of the SCA to be impacted by the activity is not SCL

Table 7: SCA Assessment Criteria - Required Outcome 2

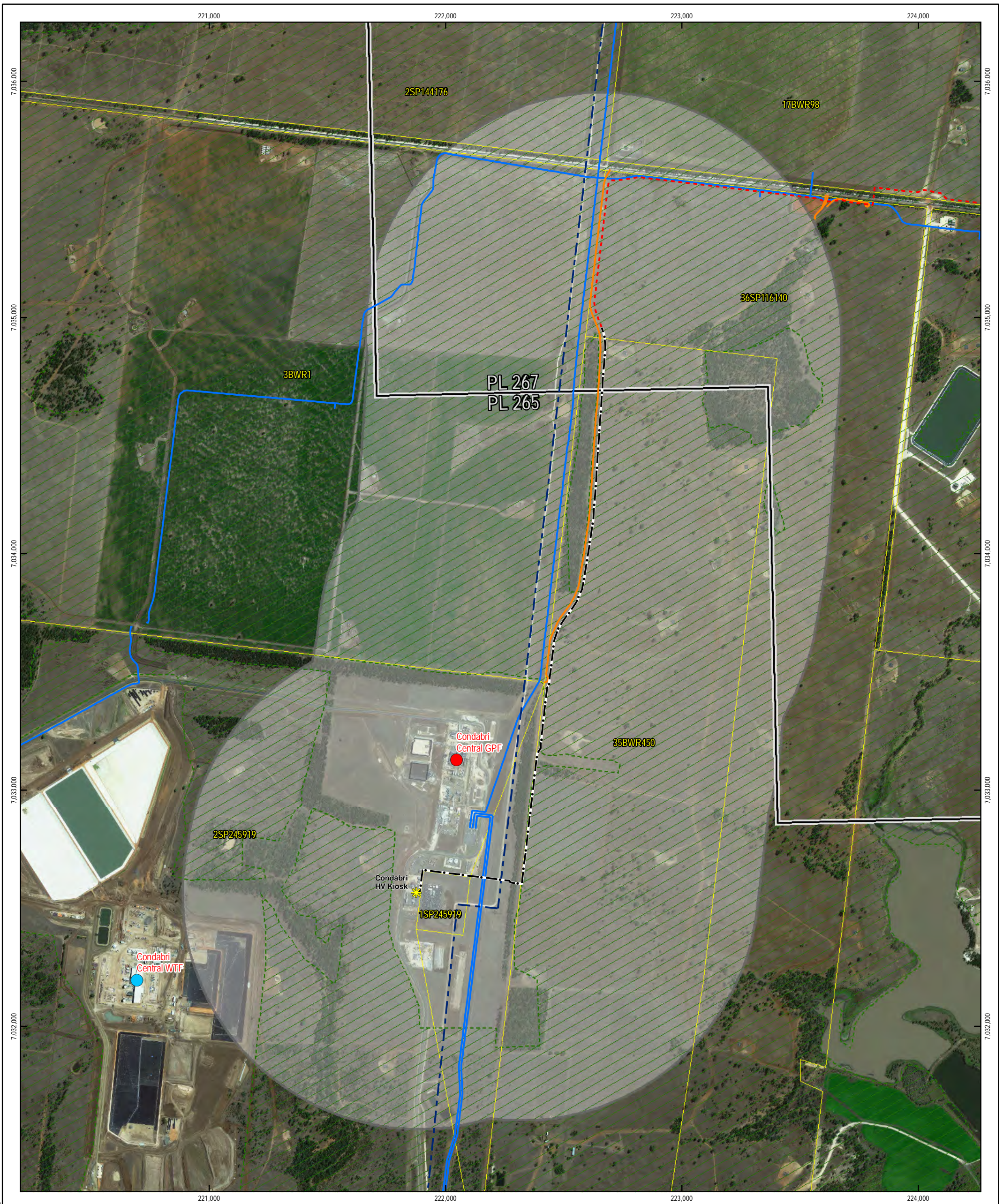
Required Outcome 2 - Managing impacts on strategic cropping land on property (SCL) in the strategic cropping area	
The activity will not result in a material impact on strategic cropping land on the property (SCL)	
Prescribed Solution	Evidence / Response
PS2: The application demonstrates all of the following—	
(a) if the applicant is not the owner of the land and has not entered into a voluntary agreement with the owner—the applicant has taken all reasonable steps to consult and negotiate with the owner of the land about the expected impact of carrying out the activity on strategic cropping land;	Not applicable. The application demonstrates that the applicant is the sole owner of the properties Lots 35 on Plan BWR450 and 36 on Plan SP116140
(b) the activity cannot be carried out on land that is not strategic cropping land, including, for example, land elsewhere on the property (SCL), on adjacent land or at another nearby location;	The activity cannot be carried out on land that is not SCL due to the constraints described in Section 4.3. The entity of the property is mapped as a SCA. In addition to this, the surrounding land is also mapped as SCA.

(c) the construction and operation footprint of the activity on strategic cropping land on the property (SCL) is minimised to the greatest extent possible;	The construction and operation of the footprint activity on SCL is minimised to the greatest extent possible (18m ROW maximum, 12m preferred) to allow for the safe installation of the cable.
(d) if the activity will have a permanent impact on strategic cropping land on a property (SCL)—no more than 2% of the strategic cropping land on the property (SCL) will be impacted.	No more than 2% of the SCL on the property will be impacted. For Lot 35 BWR450, the impact will be approximately 0.7% of the property. For Lot 36 SP116140 the impact will be less than 0.05% of the property.

Table 8: SCA Assessment Criteria - Required Outcome 3

Required Outcome 3 - The activity will not result in a material impact on strategic cropping land in an area in the strategic cropping area	
Prescribed Solution	Evidence/Response
PS3: (1) The application demonstrates all of the following—	
(a) the activity cannot be carried out on other land in the area that is not strategic cropping land, including, for example, land elsewhere on the property (SCL), on adjacent land or at another nearby location;	The activity is being carried out across two properties. The activity cannot be carried out on land that is not SCL due to the constraints described in Section 4.3, which include existing infrastructure in which the cables are to tie-in. The entity of the property is mapped as a SCA. In addition to this, the surrounding land is also mapped as SCA.
(b) if there is a regional plan for the area in which the activity is to be carried out—the activity will contribute to the regional outcomes, and be consistent with the regional policies, stated in the regional plan;	The activity contributes towards co-existence of resource and agricultural land uses. The resource activity can be undertaken without resulting in a material impact on SCL, as demonstrated in Section 4.
(c) the construction and operation footprint of the activity on strategic cropping land is minimised to the greatest extent possible;	The construction and operational footprint of the activity on SCL has been minimised to the greatest extent, as demonstrated within Section 4.
(d) either - (i) the activity will not have a permanent impact on the strategic cropping land in the area; or (ii) the mitigation measures proposed to be carried out if the chief executive decides to grant the approval and impose an SCL mitigation condition.	The mitigation measures proposed to be carried out are described in Section 4.
(2) Subsection (3) applies for each property (SCL) on which the activity is to be carried out if the applicant is not the owner of the land and has not entered into a voluntary agreement with the owner. (3) The application must demonstrate the matters listed in this schedule, section 11 for a prescribed solution for required outcome 2 for the property (SCL).	The applicant is the landholder. Subsection (3) does not apply.

Figure 1: TCIP High Voltage Cable / Fibre Optic Cable



Legend

Proposed Infrastructure	Existing Infrastructure	Boundary
Condabri 22Kv Kiosk Substation	Gas Plant Facility	Petroleum Lease
Talinga Condabri Interconnecting Pipeline	Water Treatment Facility	Cadastral Base Parcel
TCIP High Voltage / Fibre Optic Cable	Stand Alone Access	Strategic Cropping Area
1km Buffer	Electrical Transmission Line	Transmission Pipeline

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Scale: 1:15,000 (at A3)
 0 50 100 200 300 Metres

Coordinate System: GDA 1994 MGA Zone 56



Rev	Description	Drawn	Check	QA	Approved	Date
0	Issued For Use	GNH	LA	SAW	LA	16/03/2016
A	Issued For Review	GNH	LA	SAW		15/03/2016



Surrounding Land Use		
TCIP High Voltage Cable		
Date: 16 March 2016		
Map Number	Doc No	Rev
1 of 1	Q-4094-15-EA-0004	0
Map ID GISWR_30658		

Figure 2: Existing Access Track



Figure 3: Location of RE 11.4.3 and *Homopholis belsonii*

Legend

EVNT Flora Species

- *Homopholis belsonii*
- Clearing Impact Area
- Nature Conservation Act Protected Plants Flora Survey Trigger Map - High Risk Area

Vegetation Community Habitat

- RE 11.4.3

Proposed Infrastructure Change

- DAM 0533 - HV Cable/Fibre Optic Cable

- DAM 0533 - Disturbance Area

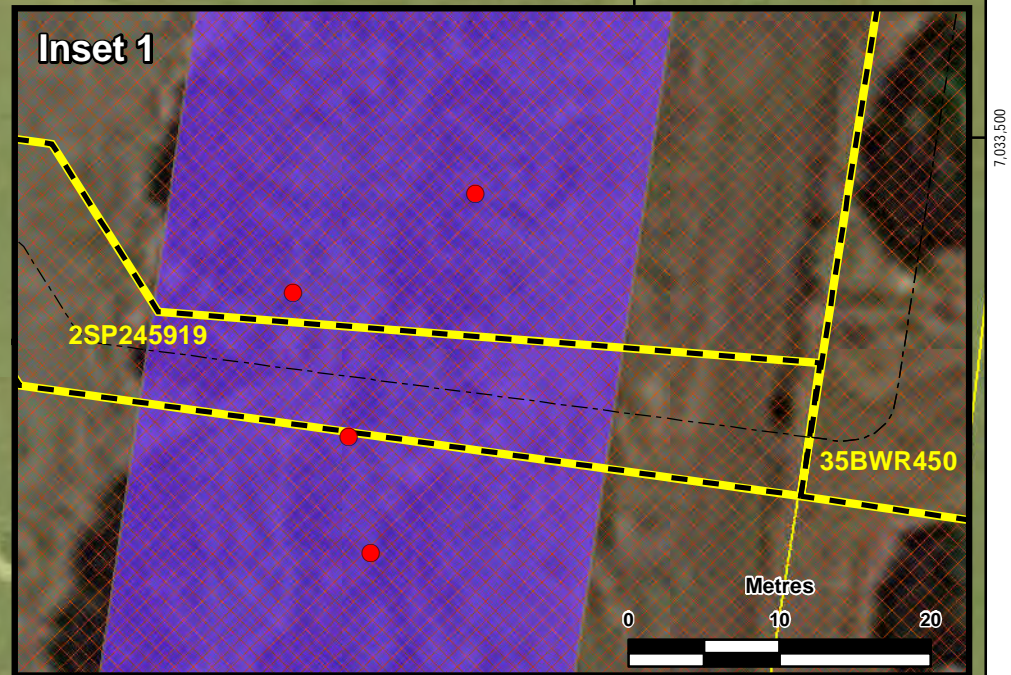
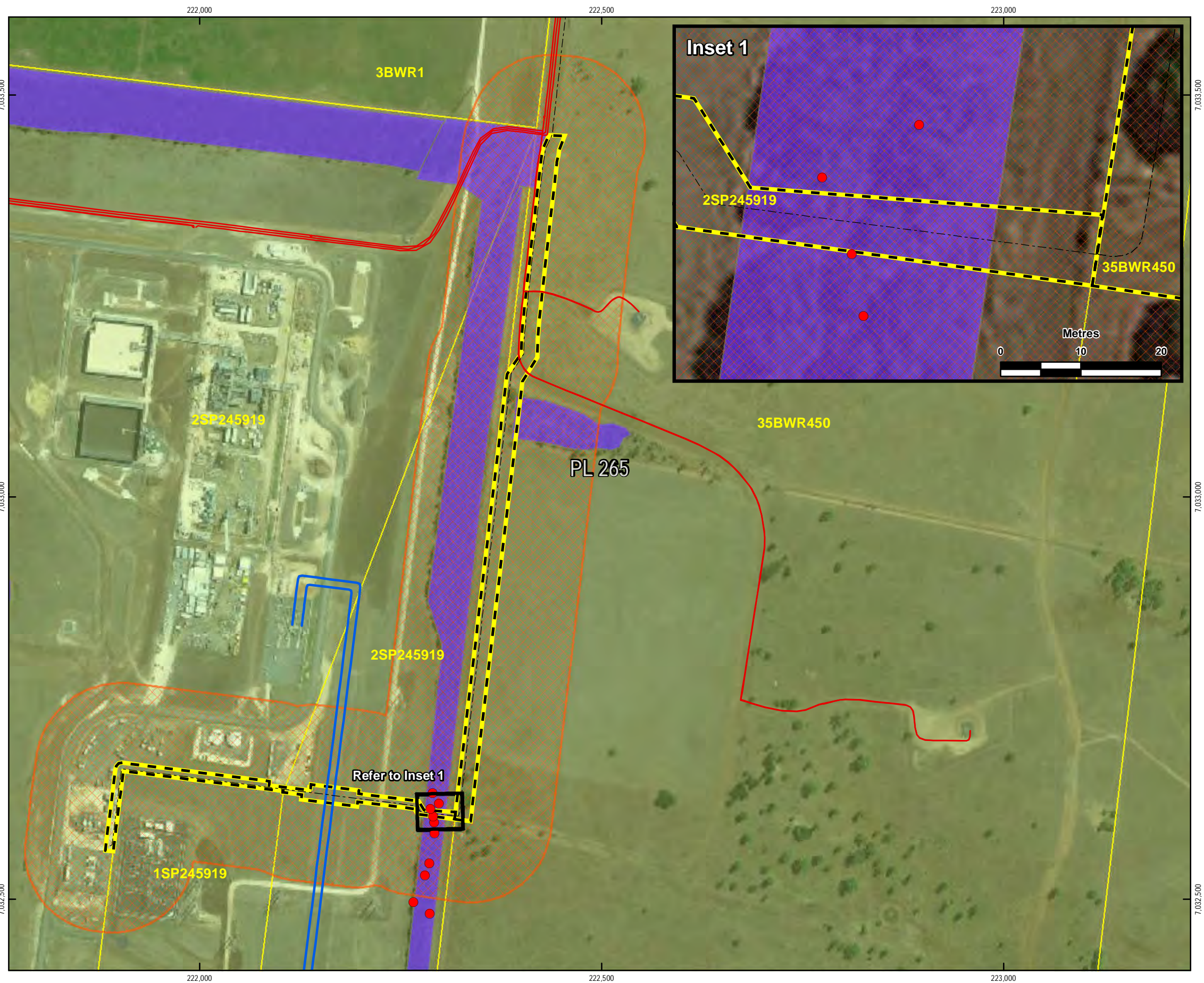
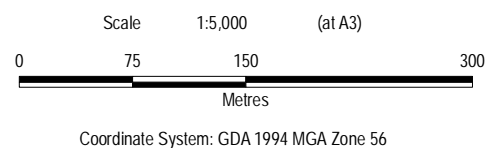
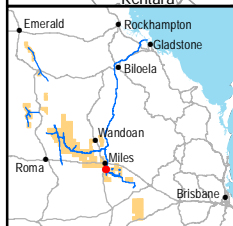
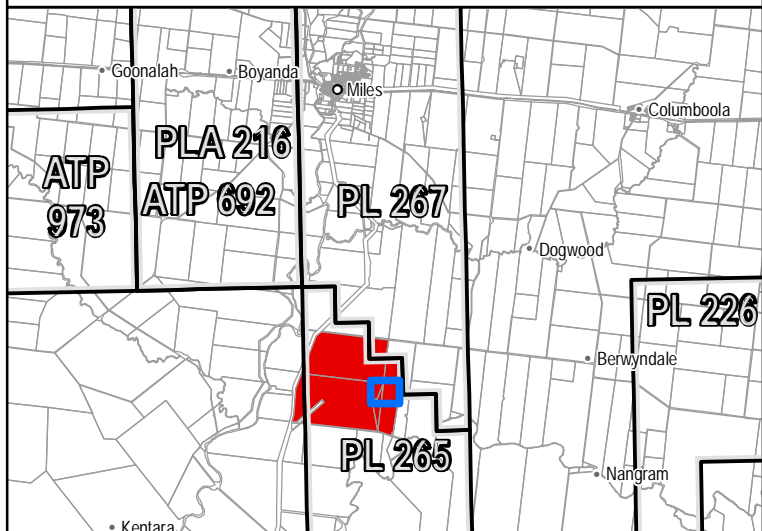
Gathering Infrastructure

- Transmission Pipeline
- As-built Gathering Flowline

Boundary

- Surveyed Cadastral
- Petroleum Lease

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Rev	Description	Drawn	Check	QA	Approved	Date
0	Issued For Use	ALM	TC	TMB	AS	03/03/2016
B	Issued For Review	ALM	TC	MLM	AS	29/02/2016
A	Issued For Review	ALM	TC	PR	AS	29/02/2016



Figure 1 : Site Map of EVNT Flora within Habitat Types
 Flora Survey Report - DAM 0533 (DA1972)
 Date: 3 March 2016

Map Number 1 of 1	Doc No Q-4500-15-RP-1440	Rev 0
Map ID GISWR_30395		

Figure 4: Alternative Location Considered



Appendix A, Referenced Documents