

Wednesday 17 April 2024

Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors document Duck Creek | APO0001731

Decision Maker	Monique Meyer
Prepared by	Nicole Wallwood
Title	EL 8965 (1992)
Authorised Representative	
Project name	Duck Creek
Activity type	Complying Exploration Activity

Issue

has sought an activity approval in respect of Duck Creek, within EL 8965 (1992), at 22km NE from Nyngan.

Pursuant to section 2.8 of *State Environmental Planning Policy (Resources and Energy) 2021*, development for the purposes of exploration (i.e. prospecting) may be carried out without development consent.

An authority issued under the *Mining Act 1992* is subject to a condition that the authority holder must not carry out an assessable prospecting operation on land over which the authority is granted unless an activity approval has been obtained for the carrying out of the assessable prospecting operation.

As assessable prospecting operations require approval by the Minister under the *Mining Act 1992*, a duty is imposed on determining authorities under Part 5 of the *Environmental Planning and Assessment Act 1979* to:

- examine and take into account to the fullest extent possible all matters affecting or likely to affect the environmental by reason of the proposed activity; and
- if the activity is likely to significantly affect the environment, examine and consider an environmental impact statement in respect of the activity.

The Minister is the determining authority for all exploration activities subject to environmental assessment under Part 5 of the *Environmental Planning and Assessment Act 1979*.

The Decision Maker, under delegation from the Minister, is required to determine whether:

- the proposed activity is not likely to have a significant impact on the environment and is not likely to significantly affect threatened species, populations or ecological communities (or their habitats) or impact biodiversity values and can be approved,
- the proposed activity is likely to have a significant impact on the environment and therefore an Environmental Impact Statement (EIS) is required,

- the proposed activity will be carried out in a declared area of outstanding biodiversity value and is likely to significantly affect threatened species, populations or ecological communities, or their habitats or impact biodiversity values, meaning a Species Impact Statement (SIS) and/or Biodiversity Development and Assessment Report (BDAR) is required, or
- there is insufficient information to make a decision.

Background

APO0001731 seeking approval under EL 8965 (granted 6/4/2020, expiry 6/4/2029) to undertake the Duck Creek program involving 3x Diamond Drillholes (each to 500m depth).

Current security held and required for EL 8965 is \$43,000.

Approved activities with rehabilitation outstanding on the title include::

1. APO0001250 for 20x mud rotary drillholes, approved 17 August 2022

The assessment has determined that the activity is not likely to significantly affect the environment, including threatened species or ecological communities (or their habitats), or declared areas of outstanding biodiversity value/critical habitat.

Proposed exploration activity

The proposed exploration activity (including details of the site, the existing environment, impact thresholds and impact management) are described in *APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING*OPERATIONS Duck Creek report and the information provided in support of the application.

The objective of the proposed exploration activity is to carry out works on, or to remove samples from, land for the purpose of testing the resource quality and/or quantity of the land. This is consistent with the objects of the *Mining Act 1992*, including to facilitate the discovery and development of resources in NSW.

No alternatives options to the proposed activity were considered.

Security

The applicant has indicated that the rehabilitation liability for the Duck Creek and any outstanding rehabilitation liabilities will not exceed \$30,000. An assessment of the security deposit required to secure funding for the fulfilment of obligations in relation to Duck Creek (if approved) is not necessary. This assessment under s.261BC of the Mining Act 1992 has determined that no change to the security deposit is required.

Assessment of Impacts (Complying exploration activity)

An assessment of the significance of environmental impacts associated with the proposed activity was undertaken in accordance with the Department of Planning and Environment's "Guidelines for Division 5.1 assessments". The results of this assessment are documented in the attached Review of Environmental Factors document.

Additional terms (if approved)

No additional terms are required.

Summary

Based on the information provided in the *APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING*OPERATIONS Duck Creek report, and the Review of Environmental Factors document, the proposed activity has been assessed as is not likely to have a significant impact on the environment and therefore an EIS is not required.

The application has been assessed and the recommendation is to Approve the activity.

Certification

I, Nicole Wallwood, certify that I have reviewed and endorsed the contents of the attached Review of Environmental Factors document and, to the best of my knowledge, it is in accordance with the *Environmental Planning and Assessment Act 1979*, the Environmental Planning and Assessment Regulation 2021 and the Guidelines approved under clause 170 of the EP&A Regulation, and the information it contains is neither false nor misleading.

Recommendation

The Decision Maker, under delegation from the Minister:

- Assesses the environmental impact of Duck Creek and determines that the activity is is not likely to have a significant impact on the environment and therefore an EIS is not required under Part 5 of the Environmental Planning and Assessment Act 1979.
- Approve the activity pursuant to the *Mining Act 1992*.

Review of Environmental Factors document

Criteria	Air Impacts: Air quality impacts (including impacts on nearby sensitive receptors).		
Potential impacts	Particulates and emissions from vehicle exhausts, plant and machinery. Wind erosion and dust from disturbed soils during construction and operations. Dust from vehicles travelling over tracks. Dust generation from operating plant and machinery. Air quality impacts on nearby sensitive receivers.		

Proposed management controls	Air quality is not anticipated to be of concern with the drilling methods proposed.				
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.				
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must comply with cumulative AQ criteria. b. Emissions from the activities should not result in cumulative PM10 levels exceeding 50ug/m3 (24hr) or 30 ug/m3 (annual average) at any occupied residence. c. Emissions from the activities should not result in cumulative PM2.5 emissions exceeding 25 ug/m3 (24hr) or 8 ug/m3 (annual average) at any occupied residence. d. Vehicle speeds limited to minimise dust. e. Roads watered during high traffic periods. f. Surface disturbance managed in accordance with Blue Book. Impacts of any drilling limited to immediate vicinity of drilling due to controls set out in title conditions				
	(Exploration Code of Practice: Environmental Management). Impacts negligible due to nature of drilling activities.				
	All disturbed areas to be rehabilitated in accordance: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes).				
Duration	Short term				
Application ranking					
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Partly	Justification for	or ranking		
Do the operations comply with	Yes		- -		
standards, plans, policies? Criteria	Air Impacts: Greenhouse or ozone impacts.				
Potential impacts	·				
r oteritiar impacts	Emissions from combustion of fuel associated with vehicles, plant and machinery during construction, operations and rehabilitation. Fugitive methane emissions from intercepted seams. Fugitive emissions of gases or vapour from drilling operations and the operation of flares.				
Proposed management controls	Air quality is not anticipated to be of concern with the drilling methods proposed.				
	Activities must comply with CEA Location Re exploration activities cannot be a CEA.				
	CO2 emissions from activities are extremely emissions and impact.	limited and incor	nsequential in context of global		
	Restrictions on use of ozone depleting subst		·		
	All disturbed areas to be rehabilitated in accompractice: Rehabilitation). Rehabilitation to of (including sealing of any boreholes).				
Duration	Medium term atmospheric residence.				
Application ranking					
What is the confidence in predicting impacts?	High Are further studies required on impacts or mitigation?				
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Partly	Justification for	or ranking		
Do the operations comply with standards, plans, policies?	Yes	dogradad air	rolity.		
Criteria	Air Impacts: Additional impacts on areas with	i degraded air qt	iality.		

Potential impacts	Potential for temperature inversions in winte possible from exposed soils. Particulate		l air particulates. Wind erosion vehicles and machinery. Dust	
	generation from operating machinery, vehicle	es travelling over	r tracks, etc.	
Proposed management controls	Air quality is not anticipated to be of concern	with the drilling	methods proposed.	
	Activities must comply with CEA Location Re	estrictions, Impac	ct Thresholds and Criteria.	
	Activities must comply with (Exploration Code of Practice: Environmental Managemen commitment in the application (APO). Relevant requirements of this Code include:			
	a. Activities must comply with cumulative AC	criteria.		
	b. Emissions from the activities should not re			
	(24hr) or 30 ug/m3 (annual average) at any			
	c. Emissions from the activities should not re			
	ug/m3 (24hr) or 8 ug/m3 (annual average) a d. Vehicle speeds limited to minimise dust.	t any occupied re	esidence.	
	e. Roads watered during high traffic periods.			
	f. Surface disturbance managed in accordan		ok.	
	Imports of any drilling limited to immediate y	ininity of drilling	due to controls set out in Evaleration	
	Impacts of any drilling limited to immediate v Code of Practice: Environmental Manageme			
	All disturbed areas to be rehabilitated in acc	ordance with title	conditions (Exploration Code of	
	Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).			
Duration	Short term			
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		4	
Criteria	Water Impacts: Impacts from the use of surfa			
Potential impacts	Water used for exploration not available for e			
	Surface runoff can be sediment laden. Generally minimal surface water use (must be licens or use of farm dams through landholder agreements). No use of groundwater but potential I through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) surface water or aquifers.			

Proposed management controls GROUNDWATER: Groundwater encountered during drilling will be managed and contained by the drilling methods. The Company have drilled many holes in this region and have not encountered any difficulties with water. Mud water pressure used for proposed DD will be sufficient pressure to contain water within the boreholes. At completion of drilling, the collar casing will remain in place and the collar made safe and the drill hole is filled with cement to within 1m from the surface. SURFACE WATER: Topography is typically flat with named watercourses and several drainage channels that will be avoided for this program. The majority of the year these watercourses and drainages are dry. Proposed collars will be moved to ensure none are advanced within 200m of any named watercourse. None of the tentatively proposed locations are located within 200m of a named watercourse. There will be no storage of surface water nor disposal of water to surface. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with Exploration Code of Practice: Environmental Management as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. Activities must not cause adverse impacts to livestock (including any adverse impacts on surface water supplies used by livestock). Water used for access track watering must be obtained from licensed source or farm dams (with consent of owner). Boreholes to be constructed, operated and decommissioned in accordance with authority/title conditions, Departmental Guidelines and Codes of Practice to protect groundwater/aquifers Duration Short term Application ranking What is the confidence in High Are further No predicting impacts? studies required on impacts or mitigation? How resilient is the environment to High Resilience What is the Low cope with impacts? level of public concern? Can the impacts be reversed? Ranking of Yes Low potential significance Can the impacts be mitigated? Justification for ranking Fully Do the operations comply with Yes standards, plans, policies? Criteria Water Impacts: Impacts from storage of water Potential impacts Negligible and only localised impacts from storage of water. Water used for exploration temporarily not available for ecological, stock, domestic or irrigation purposes. Generally minimal redirection of flow and changes to flow rates and volumes of a waterbody. Surface Generally minimal surface water use (must be licensed or use of runoff can be sediment laden.

farm dams through landholder agreements).

produced water in drilling / deep excavation operations.

Duck Creek | APO0001731

No use of groundwater but potential loss through

GROUNDWATER: Groundwater encountered during drilling will be managed and contained by the drilling methods. The Company have drilled many holes in this region and have not encountered any difficulties with water. Mud water pressure used for proposed DD will be sufficient pressure to contain water within the boreholes. At completion of drilling, the collar casing will remain in place and the collar made safe and the drill hole is filled with cement to within 1m from the surface.

SURFACE WATER: Topography is typically flat with named watercourses and several drainage channels that will be avoided for this program. The majority of the year these watercourses and drainages are dry. Proposed collars will be moved to ensure none are advanced within 200m of any named watercourse. None of the tentatively proposed locations are located within 200m of a named watercourse. There will be no storage of surface water nor disposal of water to surface.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with the Exploration Code of Practice: Environmental Management as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity.
- b. Activities must not cause adverse impacts to livestock (including any adverse impacts on surface water supplies used by livestock).

All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks).

Any impacts subject to compensation and landholder access arrangements (e.g. any impacts on land use from storage or water)

	land use from storage or water).		
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Water Impacts: Impacts from changes to natural water bodies, wetlands or runoff patterns.		
Potential impacts	Negligible and only localised changes to surface flows rates and volumes. Surface runoff can be sediment laden. Generally minimal surface water use (must be licensed or use of farm dams		
	through landholder agreements). Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water.		

GROUNDWATER: Groundwater encountered during drilling will be managed and contained by the drilling methods. The Company have drilled many holes in this region and have not encountered any difficulties with water. Mud water pressure used for proposed DD will be sufficient pressure to contain water within the boreholes. At completion of drilling, the collar casing will remain in place and the collar made safe and the drill hole is filled with cement to within 1m from the surface.

SURFACE WATER: Topography is typically flat with named watercourses and several drainage channels that will be avoided for this program. The majority of the year these watercourses and drainages are dry. Proposed collars will be moved to ensure none are advanced within 200m of any named watercourse. None of the tentatively proposed locations are located within 200m of a named watercourse. There will be no storage of surface water nor disposal of water to surface.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with Exploration Code of Practice: Environmental Management as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity.
- b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.
- c. Existing access tracks to be used/upgraded wherever possible.

All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or

ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks).

Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies	No
		required on impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from aquifer interference, including changes to inter-aquifer connectivity.		
Potential impacts	No use of groundwater but potential loss through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		

GROUNDWATER: Groundwater encountered during drilling will be managed and contained by the drilling methods. The Company have drilled many holes in this region and have not encountered any difficulties with water. Mud water pressure used for proposed DD will be sufficient pressure to contain water within the boreholes. At completion of drilling, the collar casing will remain in place and the collar made safe and the drill hole is filled with cement to within 1m from the surface.

SURFACE WATER: Topography is typically flat with named watercourses and several drainage channels that will be avoided for this program. The majority of the year these watercourses and drainages are dry. Proposed collars will be moved to ensure none are advanced within 200m of any named watercourse. None of the tentatively proposed locations are located within 200m of a named watercourse. There will be no storage of surface water nor disposal of water to surface.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity.
- b. Activities must minimise cross connection of aquifers or groundwater sources.
- c. Activities must minimise any depressurisation of aquifers or groundwater sources.
- d. Coal and petroleum title holders must prepare and implement and Groundwater Monitoring & Modelling Plan in consultation with NSW Office of Water.

Boreholes to be constructed, operated and decommissioned in accordance with authority/title conditions, Departmental Guidelines and Codes of Practice to protect groundwater/aquifers.

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Water Impacts: Impacts from changes to flooding or tidal regimes.		
Potential impacts	Negligible and only localised changes to drainage flows/flooding regime. Surface runoff can be sediment laden.		

Proposed management controls

GROUNDWATER: Groundwater encountered during drilling will be managed and contained by the drilling methods. The Company have drilled many holes in this region and have not encountered any difficulties with water. Mud water pressure used for proposed DD will be sufficient pressure to contain water within the boreholes. At completion of drilling, the collar casing will remain in place and the collar made safe and the drill hole is filled with cement to within 1m from the surface.

SURFACE WATER: Topography is typically flat with named watercourses and several drainage channels that will be avoided for this program. The majority of the year these watercourses and drainages are dry. Proposed collars will be moved to ensure none are advanced within 200m of any named watercourse. None of the tentatively proposed locations are located within 200m of a named watercourse. There will be no storage of surface water nor disposal of water to surface.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity.
- b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.
- c. Existing access tracks to be used/upgraded wherever possible.

All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or

ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks).

Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes	face or groundw	nter quality and quantity
Potential impacts	Water Impacts: Impacts from changes in sur		. , , ,
	Water used for exploration temporarily not available for ecological, stock, domestic or irrigation purposes. Surface runoff can be sediment laden from areas where vegetation has been removed. Generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). No use of groundwater but potential loss through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers. Ford across creeks can cause stream bank erosion from vehicle wash. Inappropriate disposal of drilling wastes / overflow from drilling sumps.		
Proposed management controls	GROUNDWATER: Groundwater encountered rilling methods. The Company have drilled any difficulties with water. Mud water pressure contain water within the boreholes. At compland the collar made safe and the drill hole is SURFACE WATER: Topography is typically channels that will be avoided for this prograr drainages are dry. Proposed collars will be named watercourse. None of the tentatively named watercourse. There will be no storaged activities must comply with CEA Location Reference and the program of the tentatively named watercourse. There will be no storaged activities must comply with (Exploration Code commitment in the application (APO). Releve a Activities must implement all measures to or quantity. b. Activities must minimise cross connection c. Activities must minimise any depressurisated. Coal and petroleum title holders must premodelling Plan in consultation with NSW Offer. All sediment and erosion controls to be in impacts.	many holes in thi ure used for prop letion of drilling, t ifilled with cemer flat with named w m. The majority o moved to ensure proposed locatic e of surface wate estrictions, Impact de of Practice: En vant requirements prevent causing of aquifers or greation of aquifers o pare and implemice of Water.	is region and have not encountered osed DD will be sufficient pressure to the collar casing will remain in place and to within 1m from the surface. Watercourses and several drainage of the year these watercourses and none are advanced within 200m of any ons are located within 200m of any ons are located within 200m of a per nor disposal of water to surface. It Thresholds and Criteria. Wironmental Management) as per the softhis Code include: any adverse impacts on water quality coundwater sources. It groundwater sources. It groundwater sources. It groundwater sources.
Duration	Short term		
Application ranking	LES	A 6	
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes	Justification f	-
Criteria	Soil & Stability Impacts: Degradation of soil acidification).	quality (including	contamination, salinisation or

Potential impacts Soil erosion and sediment laden runoff from disturbed areas / areas where vegetation has been Mobilisation of pollutants (such as hydrocarbons) in soils. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Exposure of acid sulfate soils. Impacts on land with high agricultural capability. compaction from construction/operations. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat **Proposed management controls** and open. Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. There are no acid sulfate soils within this area. The proposed drillholes are located on soil types 3 and 4 from the Land and Soil Capability Classification which record moderate to severe limitations. Due to the soil sensitivities the following conditions are placed on proposed works; Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Proposed exploration activities will not impact agricultural resources or activities. There will be no drilling or site preparation within 40m of a riparian zone that could disturb the banks of creeks. Access to proposed collar locations will be along paddock furrows to minimise disturbance to the paddock. Any waste products (rubbish) will be removed from site at completion of drilling and disposed of at the nearest appropriately licenced waste facility. Collars will be capped and sites made safe as soon as drilling is completed. Rehabilitation will be completed within 24 months, usually sooner. Rehabilitation outcomes will achieve: No residual soil or visual contamination; 0 Runoff water quality is similar to pre-disturbance runoff water quality; and Revegetation is similar to pre-disturbance vegetation. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimising vegetation clearing and surface disturbance. b. Prevent causing any land degradation or pollution/contamination of land or water. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. c. Existing access tracks to be used/upgraded wherever possible. d. Controls on sumps and management of chemicals to significantly reduce risk to soils. All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Impacts on land with	n high agricultura	ıl capability.

Potential impacts Areas used for exploration activities, access tracks, etc temporarily not available for agricultural Mobilisation of pollutants (such as production. Temporary loss of use of land. Inappropriate disposal of drilling wastes / overflow from hydrocarbons) in soils, air or waters. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to drilling sumps. build up residues in the environment, including in soils and water. Short term noise, air quality Soil erosion and sediment laden runoff from disturbed areas, that could lead and visual impacts. to soil or water contamination or land degradation. Exposure of acid sulfate soils. Spread of weeds, pest animals and animal/plant diseases. Disruption to agricultural / livestock operations. **Proposed management controls** Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. There are no acid sulfate soils within this area. The proposed drillholes are located on soil types 3 and 4 from the Land and Soil Capability Classification which record moderate to severe limitations. Due to the soil sensitivities the following conditions are placed on proposed works; Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Proposed exploration activities will not impact agricultural resources or activities. There will be no drilling or site preparation within 40m of a riparian zone that could disturb the banks of creeks. Access to proposed collar locations will be along paddock furrows to minimise disturbance to the paddock. Any waste products (rubbish) will be removed from site at completion of drilling and disposed of at the nearest appropriately licenced waste facility. Collars will be capped and sites made safe as soon as drilling is completed. Rehabilitation will be completed within 24 months, usually sooner. Rehabilitation outcomes will achieve: 0 No residual soil or visual contamination; Runoff water quality is similar to pre-disturbance runoff water quality; and Revegetation is similar to pre-disturbance vegetation. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on the environment (including livestock protection, control of weeds, pest animals, diseases, etc - and use of above-ground sumps required on BSAL. Impacts limited to activity site and subject to compensation and landholder access arrangements. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes). Duration Short term **Application ranking** What is the confidence in High Are further No predicting impacts? studies required on impacts or mitigation? How resilient is the environment to High Resilience What is the Low cope with impacts? level of public concern? Can the impacts be reversed? Yes Ranking of Low potential significance Can the impacts be mitigated? Fully Justification for ranking Do the operations comply with standards, plans, policies? Criteria Soil & Stability Impacts: Loss of soil from wind or water erosion. Potential impacts Increased risk of erosion where vegetation has been removed. Potential erosion of disturbed

Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.

Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.

There are no acid sulfate soils within this area.

The proposed drillholes are located on soil types 3 and 4 from the Land and Soil Capability Classification which record moderate to severe limitations. Due to the soil sensitivities the following conditions are placed on proposed works;

- Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program.
- Proposed exploration activities will not impact agricultural resources or activities. There will
 be no drilling or site preparation within 40m of a riparian zone that could disturb the banks of creeks.
- Access to proposed collar locations will be along paddock furrows to minimise disturbance to the paddock.
- Any waste products (rubbish) will be removed from site at completion of drilling and disposed of at the nearest appropriately licenced waste facility.
- Collars will be capped and sites made safe as soon as drilling is completed.
- Rehabilitation will be completed within 24 months, usually sooner.
- Rehabilitation outcomes will achieve:
- o No residual soil or visual contamination;
- o Runoff water quality is similar to pre-disturbance runoff water quality; and
- Revegetation is similar to pre-disturbance vegetation.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Minimising vegetation clearing and surface disturbance.
- b. Prevent causing any land degradation or pollution/contamination of land or water.
- c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.
- d. Existing access tracks to be used/upgraded wherever possible.

All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Loss of structural integrity of the soil.		
Potential impacts	Soil compaction from access traffic, use of plant and machinery. Soil erosion from disturbed		
	areas / areas where vegetation has been removed. Mobilisation of pollutants (such as		
	hydrocarbons) in soils.		

Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.

Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.

There are no acid sulfate soils within this area.

The proposed drillholes are located on soil types 3 and 4 from the Land and Soil Capability Classification which record moderate to severe limitations. Due to the soil sensitivities the following conditions are placed on proposed works;

- Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program.
- Proposed exploration activities will not impact agricultural resources or activities. There will
 be no drilling or site preparation within 40m of a riparian zone that could disturb the banks of creeks.
- Access to proposed collar locations will be along paddock furrows to minimise disturbance to the paddock.
- Any waste products (rubbish) will be removed from site at completion of drilling and disposed of at the nearest appropriately licenced waste facility.
- Collars will be capped and sites made safe as soon as drilling is completed.
- Rehabilitation will be completed within 24 months, usually sooner.
- Rehabilitation outcomes will achieve:
- o No residual soil or visual contamination;
- o Runoff water quality is similar to pre-disturbance runoff water quality; and
- Revegetation is similar to pre-disturbance vegetation.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Minimising vegetation clearing and surface disturbance.
- b. Prevent causing any land degradation or pollution/contamination of land or water.
- b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.
- c. Existing access tracks to be used/upgraded wherever possible.
- d. Controls on sumps and management of chemicals to significantly reduce risk to soils.

All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes). Deep ripping of any access tracks which need to be rehabilitated can remediate compaction impacts.

Impact generally limited due to low traffic numbers and short term nature of exploration.

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Increased land instability with high risks from land slides or subsidence.		
Potential impacts	Minimal potential impacts. Soil erosion from disturbed areas / areas where vegetation has been		
	removed. Negligible impacts from induced seismicity or ground movements associated with the		
	activity, extraction of groundwater, etc.		

Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.

Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.

There are no acid sulfate soils within this area.

The proposed drillholes are located on soil types 3 and 4 from the Land and Soil Capability Classification which record moderate to severe limitations. Due to the soil sensitivities the following conditions are placed on proposed works;

- Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program.
- Proposed exploration activities will not impact agricultural resources or activities. There will
 be no drilling or site preparation within 40m of a riparian zone that could disturb the banks of creeks.
- Access to proposed collar locations will be along paddock furrows to minimise disturbance to the paddock.
- Any waste products (rubbish) will be removed from site at completion of drilling and disposed of at the nearest appropriately licenced waste facility.
- Collars will be capped and sites made safe as soon as drilling is completed.
- Rehabilitation will be completed within 24 months, usually sooner.
- Rehabilitation outcomes will achieve:
- o No residual soil or visual contamination;
- o Runoff water quality is similar to pre-disturbance runoff water quality; and
- Revegetation is similar to pre-disturbance vegetation.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Minimising vegetation clearing and surface disturbance.
- b. Prevent causing any land degradation or pollution/contamination of land or water.
- c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book (includes controls to manage instability risks).
- d. Existing access tracks to be used/upgraded wherever possible.
- e. Controls on sumps and management of chemicals to significantly reduce risk to soils.

All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Noise & Vibration Impacts: Results in increase	sed noise or vibra	ation.
Potential impacts	Noise from vehicles, plant and machinery results in unacceptable impacts on nearby sensitive		
·	receivers, such as residences, educational establishments, medical facilities, places of worship,		
	animal boarding/training establishments, intensive livestock agriculture, etc. Percussion drilling		
	can have localised vibration impacts. Dr	illing unlikely to o	cause vibration impacts . Shots
	have vibration and overpressure impacts wh	ich may impact v	ribration sensitive sites. Vibroseis
	machinery has vibration impacts which may impact vibration sensitive sites.		

Proposed management controls HRS OF OPS: 12hr shifts 6am-6pm, 7 days a week Half Moon and Wadonga Homesteads are the closest to proposed DCK ANT1 at 1.2km SW and 5.1km WNW from proposed DCK_ANT1. Access agreements are currently being finalised with the relevant landholders and all nearby Stakeholders will be advised of the upcoming works. There are no further sensitive receptors nearby. NOISE MGMT: Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling does not generate excessive noise. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Implementing all practicable measures to ensure noise levels meet acceptable criteria for sensitive receivers. b. Notifying potentially affected landholders at least 24hrs prior to detonating explosives. c. Compliance with Interim Construction Noise Guidelines and/or EPL and/or landholder agreements. d. Ground vibration thresholds limited to 5 mm/s (peak particle velocity) at any residence/sensitive receiver. e. Ground vibration thresholds limited to 3 mm/s for any item of Aboriginal / European heritage significance or cliff line greater than 4m in height. f. Vibrating machinery not to be used within 200m of sensitive receivers, item/place of Aboriginal / European heritage significance or any cliff line greater than 4m in height. Impacts limited to immediate vicinity of exploration activity. Duration Short term **Application ranking** What is the confidence in High Are further predicting impacts? studies required on impacts or mitigation? How resilient is the environment to High Resilience What is the Low cope with impacts? level of public concern? Can the impacts be reversed? Yes Ranking of Low potential significance Can the impacts be mitigated? Fully Justification for ranking Do the operations comply with Yes standards, plans, policies? Criteria Noise & Vibration Impacts: Affects sensitive receptors. **Potential impacts** Noise from vehicles, plant and machinery results in unacceptable impacts on nearby sensitive receivers, such as residences, educational establishments, medical facilities, places of worship. animal boarding/training establishments, intensive livestock agriculture, etc. Percussion drilling can have localised vibration impacts. Drilling unlikely to cause vibration impacts Shots have vibration and overpressure impacts which may impact vibration sensitive sites. Vibroseis machinery has vibration impacts which may impact vibration sensitive sites. **Proposed management controls** HRS OF OPS: 12hr shifts 6am-6pm, 7 days a week Half Moon and Wadonga Homesteads are the closest to proposed DCK ANT1 at 1.2km SW and 5.1km WNW from proposed DCK_ANT1. Access agreements are currently being finalised with the relevant landholders and all nearby Stakeholders will be advised of the upcoming works. There are no further sensitive receptors nearby. NOISE MGMT: Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling does not generate excessive noise. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Implementing all practicable measures to ensure noise levels meet acceptable criteria for sensitive receivers. b. Notifying potentially affected landholders at least 24hrs prior to detonating explosives. c. Compliance with Interim Construction Noise Guidelines and/or EPL and/or landholder agreements. d. Ground vibration thresholds limited to 5 mm/s (peak particle velocity) at any residence/sensitive receiver. e. Ground vibration thresholds limited to 3 mm/s for any item of Aboriginal / European heritage significance or cliff line greater than 4m in height. f. Vibrating machinery not to be used within 200m of sensitive receivers, item/place of Aboriginal / European heritage significance or any cliff line greater than 4m in height. Impacts limited to immediate vicinity of exploration activity.

Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on	No
		impacts or mitigation?	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public	Low
		concern?	
Can the impacts be reversed?	Yes	Ranking of potential	Low
		significance	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Yes	Justification f	or ranking
Criteria	Coastal Location & Processes: Affects coast	l tal processes and	d coastal hazards, including those
- Thoma	under projected climate change conditions.	ar processes arn	a coactar riazarac, moraanig tricco
Potential impacts	Activities along the coastline / floodways have levels and increased storm activity under proincreased erosion along the coastline / flood	ojected climate cl	
Proposed management controls	NA - not located in coastal location	-	
	Activities must comply with CEA Location Re	estrictions, Impac	ct Thresholds and Criteria.
	Activities must comply with (Exploration Code of Practice: Environmental Management) a commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on way or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be accordance with Blue Book. CO2 emissions from activities are extremely limited and inconsequential in context of glo emissions and impact. Restrictions on use of ozone depleting substances in NSW also limits ozone depletion.		
	All disturbed areas to be rehabilitated in accompractice: Rehabilitation). Rehabilitation to oction		
Duration	Short term		
Application ranking		1	T
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Hazardous substances or chemicals: Impact transport of hazardous substances or chemicals		h the use, generation, storage or
Potential impacts	Mobilisation of pollutants (such as hydrocarbons) in air, soils or waters. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water.		

Proposed management controls	No chemicals anticipated to be used in this drilling program. Diesel will be kept in a bunded sto area. Bio-degradable drilling muds to be utilised with the diamond drilling.			
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Preventing contamination of the environment by the release of chemicals, fuels, other potential pollutants. b. Preventing any land degradation or pollution/contamination of land or water. c. Controls on sumps and management of chemicals to significantly reduce risk to environment. d. Use of pesticides, herbicides, fertilisers or other chemicals must comply with legislative requirements. e. Wastes+A34 (including any drilling by-products) to be collected, segregated and disposed of lawfully.			
	All management and storage of produced water must comply with the title conditions. In addition the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sump or above ground tanks). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of			
Demotion	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity.	
Duration Application replains	Short term			
Application ranking	Librata	A wa fourth an	N ₁ -	
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?	nigh Resilience	level of	Low	
cope with impacts?		public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
and in passe so loveloud.		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Wastes & Emissions: Impacts to the environ wastes.	ment resulting fro	om the generation or disposal of	
Potential impacts	Mobilisation of pollutants (such as hydrocark	oons) in soils, air	or waters. Inappropriate disposal of	
-	drilling wastes / overflow from drilling sumps	. Fugitive en	nissions of gases or vapour from drilling	
		e of pesticides, h	erbicides, fertilisers or other chemicals	
	have the potential to build up residues in the environment, including in soils and water.			

Proposed management controls Drill core will be removed from site to a Company storage facility. Once drilling is complete, any minor spoil will be returned down the hole and all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program. All wastewater and drill cuttings collected in above ground sumps will be removed to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Preventing contamination of the environment by the release of chemicals, fuels, other potential pollutants. b. Preventing any land degradation or pollution/contamination of land or water. c. Controls on sumps and management of chemicals to significantly reduce risk to environment. d. Use of pesticides, herbicides, fertilisers or other chemicals must comply with legislative requirements. e. Wastes (including any drilling by-products) to be collected, segregated and disposed of lawfully. All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. Duration Short term Application ranking What is the confidence in High Are further Nο predicting impacts? studies required on impacts or mitigation? How resilient is the environment to High Resilience What is the I ow cope with impacts? level of public concern? Can the impacts be reversed? Yes Ranking of Low potential significance Can the impacts be mitigated? Fully Justification for ranking Do the operations comply with standards, plans, policies? Criteria Wastes & Emissions: Impacts on drinking water catchments, wetlands, natural water bodies, riparian zones or flood prone areas. Potential impacts Negligible and only localised changes to drainage flows/flooding regime. Water used for exploration temporarily not available for ecological, stock, domestic or irrigation purposes. Surface runoff can be sediment laden from areas where vegetation has been removed. Generally minimal surface water use (must be licensed or use of farm dams through landholder No use of groundwater but potential loss through produced water in drilling / deep agreements). excavation operations. Interception, cross contamination and/or depressurisation of

groundwater systems in drilling operations. Groundwater depressurisation effects on surface water.

Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.

creeks can cause stream bank erosion from vehicle wash.

wastes / overflow from drilling sumps

Duck Creek | APO0001731

Ford across

Inappropriate disposal of drilling

Proposed management controls Drill core will be removed from site to a Company storage facility. Once drilling is complete, any minor spoil will be returned down the hole and all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program. All wastewater and drill cuttings collected in above ground sumps will be removed to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. Duration Short term **Application ranking** What is the confidence in Are further High No predicting impacts? studies required on impacts or mitigation? How resilient is the environment to High Resilience Low What is the cope with impacts? level of public concern? Can the impacts be reversed? Yes Ranking of Low potential significance Can the impacts be mitigated? Fully Justification for ranking Do the operations comply with Yes standards, plans, policies? Criteria Wastes & Emissions: Impacts on groundwater recharge areas or areas with high water table. **Potential impacts** Minimal impact on recharge and salinity. No use of groundwater but potential loss through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or Inappropriate disposal of drilling wastes / overflow from drilling sumps. Acid drainage due to exposure of acid clearance in recharge areas can increase salinity. sulfate soils. Drill core will be removed from site to a Company storage facility. Once drilling is complete, any Proposed management controls minor spoil will be returned down the hole and all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program. All wastewater and drill cuttings collected in above ground sumps will be removed to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks). Boreholes to be constructed, operated and decommissioned in accordance with authority/title conditions, Departmental Guidelines and Codes of Practice to protect groundwater/aquifers. Drill holes to be cased where aquifers intercepted (minimal impact on recharge and salinity)

Duration	Short term			
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?	19	studies	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
predicting impacts:				
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?	Thigh recomenses	level of	2011	
cope with impacts:				
		public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
·		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification for	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Mastas and Emissians, Impacts on accetting	l a ar dunas alnin	a areas karat faaturas ar athar unique	
Criteria	Wastes and Emissions: Impacts on coastline	es or duries, aipir	ie areas, karst leatures or other unique	
	landforms.			
Potential impacts	Negligible and only localised impacts on uni-	que landforms.	Mobilisation of pollutants in soils,	
•			d visual impacts. Particulate	
	emissions from plant and machinery; fugitive			
			en runoff from disturbed areas, that	
	could lead to soil or water contamination or I	and degradation.	Exposure of acid sulfate soils.	
	Spread of weeds, pest animals and animal/p		Damage to structures and sensitive	
			oastline / floodways have the potentia	
	to exacerbate coastal erosion (rising sea lev	els and increased	d storm activity under projected climat	
	change conditions could result in increased	erosion along the	coastline / floodways)	
Proposed management controls	NA - activity not located within coastlines or			
Proposed management controls		uuries, aipirie are	as, karst leatures or other unique	
	landforms.			
	Impact limited to activity site and subject to compensation and landholder access arrangements.			
	I Impact limited to activity site and subject to a	compensation and	d landholder access arrangements	
	Impact limited to activity site and subject to o	compensation and	d landholder access arrangements.	
		·	· ·	
	Impact limited to activity site and subject to definition Activities must comply with CEA Location Re	·	· ·	
		·	J	
	Activities must comply with CEA Location Re	estrictions, Impac	ct Thresholds and Criteria.	
	Activities must comply with CEA Location Re	estrictions, Impac	ct Thresholds and Criteria.	
	Activities must comply with CEA Location Re	estrictions, Impac	et Thresholds and Criteria.	
	Activities must comply with CEA Location Re	estrictions, Impac	et Thresholds and Criteria.	
	Activities must comply with CEA Location Real Activities must comply with (Exploration Coccommitment in the application (APO).	estrictions, Impac e of Practice: En	ot Thresholds and Criteria. vironmental Management) as per the	
	Activities must comply with CEA Location Reactivities must comply with (Exploration Coccommitment in the application (APO). All disturbed areas to be rehabilitated in acc	estrictions, Impace of Practice: En	th Thresholds and Criteria. vironmental Management) as per the conditions (Exploration Code of	
	Activities must comply with CEA Location Reactivities must comply with (Exploration Coccommitment in the application (APO). All disturbed areas to be rehabilitated in accepractice: Rehabilitation). Rehabilitation to occ	estrictions, Impace of Practice: En	th Thresholds and Criteria. vironmental Management) as per the conditions (Exploration Code of	
	Activities must comply with CEA Location Reactivities must comply with (Exploration Coccommitment in the application (APO). All disturbed areas to be rehabilitated in accepractice: Rehabilitation). Rehabilitation to occincluding sealing of any boreholes).	estrictions, Impace of Practice: En	th Thresholds and Criteria. vironmental Management) as per the conditions (Exploration Code of	
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Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	Activities must comply with CEA Location Reactivities must comply with (Exploration Coordonmitment in the application (APO). All disturbed areas to be rehabilitated in acceleratice: Rehabilitation). Rehabilitation to occelerate (including sealing of any boreholes). Short term High High Resilience Yes Fully Yes Wastes & Emissions: Impacts on erosion prodegrees. Minimal potential impacts. Soil erosion as	estrictions, Impact e of Practice: En ordance with title cur as soon as p Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	th Thresholds and Criteria. vironmental Management) as per the conditions (Exploration Code of racticable after completion of activity No Low Low or ranking with slopes of greater than 18 en runoff from disturbed areas / areas	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Activities must comply with CEA Location Reactivities must comply with (Exploration Coordonmitment in the application (APO). All disturbed areas to be rehabilitated in acceleratice: Rehabilitation). Rehabilitation to occelerate (including sealing of any boreholes). Short term High High Resilience Yes Fully Yes Wastes & Emissions: Impacts on erosion prodegrees. Minimal potential impacts. Soil erosion as	estrictions, Impact e of Practice: En ordance with title cur as soon as p Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	t Thresholds and Criteria. vironmental Management) as per the conditions (Exploration Code of racticable after completion of activity No Low Low or ranking with slopes of greater than 18	

Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.

Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.

Drill core will be removed from site to a Company storage facility. Once drilling is complete, any minor spoil will be returned down the hole and all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program. All wastewater and drill cuttings collected in above ground sumps will be removed to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. CEA not permitted on slopes exceeding 18 degrees.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Minimising vegetation clearing and surface disturbance.
- b. Prevent causing any land degradation or pollution/contamination of land or water.
- c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book (includes controls to manage instability risks).
- d. Existing access tracks to be used/upgraded wherever possible.

All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).

	Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity			
	(including sealing of any boreholes).			
Duration	Short term			
Application ranking			Τ	
What is the confidence in	High	Are further	No	
predicting impacts?		studies		
		required on		
		impacts or		
Harris all and to the construction and to	District Designation	mitigation?	Lance	
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
can the impacts be reversed:	165	potential	LOW	
		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes	oustilleation i	Orranking	
standards, plans, policies?	163			
Criteria Criteria	Wastes & Emissions: Impacts on subsidence	e or slip areas.		
Potential impacts	Soil erosion from disturbed areas / areas wh	ere vegetation h	as been removed may increase risk of	
•	slips. Drilling operations unlikely to contr	ibute to slips or s	subsidence.	
Proposed management controls	Earthworks and vegetation clearance is not	required for this	drilling program. Sites are relatively flat	
	and open.	20	a main ann ala anim a a fa mar a farana Ala	
	Drill pad areas, affecting approximately 10 x			
	surface, should this be necessary care will b	e taken to ensur	e to leave root stock to enable existing	
	vegetation regrowth. Drill core will be removed from site to a Com	nany ataraga fac	pility. Once drilling is complete, any	
	minor spoil will be returned down the hole ar			
	be capped and area made safe with all rubb			
	drilling program. All wastewater and drill cutt			
	to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.			
	Somprotour tournass mast somery man Size to			
	Activities must comply with (Exploration Cod	le of Practice: En	vironmental Management) as per the	
	commitment in the application (APO). Relev	ant requirements	s of this Code include:	
	a. Minimising vegetation clearing and surfac	e disturbance.		
	b. Prevent causing any land degradation or pollution/contamination of land or water.			
	c. All sediment and erosion controls (includir			
	accordance with Blue Book (includes control			
	d. Existing access tracks to be used/upgrade	ed wherever pos	sible.	
	All disturbed areas to be rehabilitated in acc	ordance with title	conditions (Exploration Code of	
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity.	
Duration	Short term		•	

Application ranking

What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
Have reallient in the environment to	High Deciliones		Law
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		<u> </u>
Criteria	Wastes & Emissions: Impacts on areas with	acid sulphate so	odic or highly permeable soils
	·	•	<u> </u>
Potential impacts	Vegetation removal unlikely to exacerbate a unlikely to exacerbate acid sulfate or sodicity from disturbed areas / areas where vegetation	/ issues. Soi	l erosion and sediment laden runoff
Proposed management controls	Earthworks and vegetation clearance is not and open. There are no acid sulfate soils within this are Wind erosion will be assessed in consultatio measures considered. Salinity of groundwate methods groundwater will remain in the grouground sumps and not affect the surrounding Drill pad areas, affecting approximately 10 x surface, should this be necessary care will be vegetation regrowth. Drill core will be removed from site to a Comminor spoil will be returned down the hole are be capped and area made safe with all rubb drilling program. All wastewater and drill cutt to a licenced waste facility by the drilling concompleted. Activities must comply with (Exploration Code commitment in the application (APO). Relevation. All sediment and erosion controls (including accordance with Blue Book. d. Existing access tracks to be used/upgrade e. Controls on sumps and management of collimaters. Rehabilitation). Rehabilitation to occume the sumplement of collimates.	required for this of the case. In with the landhour with the landhour with the landhour with the consider will be considered will be considered and and any require taken to ensure taken to ensure the taken to ensure the pany storage fact all materials with and drilling exit of the collected in tractors as need the control of the contr	drilling program. Sites are relatively flat older prior to site access and mitigation ered, however with the proposed drillinging may atters will be contained in above the minor clearing of grass from the ento leave root stock to enable existing stillity. Once drilling is complete, any will be removed from site. The collar will equipment removed from site at end of above ground sumps will be removed adduring drilling and once the hole is ions, Impact Thresholds and Criteria. In a prior this Code include: Ination of land or water. Ination of land or wate
Duration	Short term	unibers and snor	t term nature or exploration.
Application ranking	Short tollii		
What is the confidence in	High	Are further	No
predicting impacts?	Thigh.	studies required on impacts or mitigation?	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with	salinity or potent	tial salinity problems.
Potential impacts	Activities unlikely to exacerbate salinity prob		tation removal may reduce vegetation
•	drawdown of water table. Spills of saline exacerbate acid sulfate or sodicity issues.	produced water. Soil erosion	Vegetation removal unlikely to and sediment laden runoff from
	disturbed areas / areas where vegetation has been removed.		

Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.

There are no acid sulfate soils within this area.

Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.

Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.

Drill core will be removed from site to a Company storage facility. Once drilling is complete, any minor spoil will be returned down the hole and all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program. All wastewater and drill cuttings collected in above ground sumps will be removed to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Minimising vegetation clearing and surface disturbance.
- b. Prevent causing any land degradation or pollution/contamination of land or water.
- c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.
- d. Controls on sumps and management of chemicals to significantly reduce risk to soils.

All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on areas with degraded or contaminated land.		
Potential impacts	Activity unlikely to result in any change to existing contaminated soils or migration of contaminants. Soil erosion and sediment laden runoff from disturbed areas / areas where vegetation has been removed. Mobilisation of pollutants (such as hydrocarbons) in soils. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Exposure of acid sulfate soils. Soil compaction from construction / operations. Vegetation removal unlikely to have any impact on contaminated soils.		

Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.

There are no acid sulfate soils within this area.

Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.

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Drill core will be removed from site to a Company storage facility. Once drilling is complete, any minor spoil will be returned down the hole and all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program. All wastewater and drill cuttings collected in above ground sumps will be removed to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Minimising vegetation clearing and surface disturbance.
- b. Prevent causing any land degradation or pollution/contamination of land or water.
- c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.
- d. Controls on sumps and management of chemicals to significantly reduce risk to soils.

All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.

Impacts generally limited due to short term nature of exploration. Activity unlikely to exacerbate any existing contamination.

	existing contamination.		
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on areas with	degraded or con	taminated water (ground or surface).
Potential impacts	Activities unlikely to have any additional impacts on areas with existing degraded or contaminated		
	water (ground or surface). Boreholes to be cased when aquifers intercepted. Surface runoff can		
	be sediment laden from areas where vegetation has been removed. Interception, cross		
	contamination and/or depressurisation of gro	oundwater systen	ns in drilling operations. Groundwater
	depressurisation effects on surface water.	Mobilisation of	pollutants (such as hydrocarbons) in
			ng wastes / overflow from drilling
	sumps. Excavations excluded from acid	sulfate soils.	

Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.

There are no acid sulfate soils within this area.

Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.

Drill pad areas, affecting approximately 10 x 30m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.

Drill core will be removed from site to a Company storage facility. Once drilling is complete, any minor spoil will be returned down the hole and all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program. All wastewater and drill cuttings collected in above ground sumps will be removed to a licenced waste facility by the drilling contractors as needed during drilling and once the hole is completed.

Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.

Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include:

- a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity.
- b. Activities must minimise cross connection of aquifers or groundwater sources.
- c. Activities must minimise any depressurisation of aquifers or groundwater sources.
- d. Coal and petroleum title holders must prepare and implement and Groundwater Monitoring & Modelling Plan in consultation with NSW Office of Water.
- e. All sediment and erosion controls to be in accordance with Blue Book to minimise off-site impacts.

Boreholes to be constructed, operated and decommissioned in accordance with authority/title conditions, Departmental Guidelines and Codes of Practice to protect groundwater/aquifers.

All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of

 ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks).

All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).

Activities unlikely to exacerbate any existing surface or groundwater contamination.

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
0 41 1	E.H.	significance	
Can the impacts be mitigated?	Fully	Justification for	or ranking
Do the operations comply with	Yes		
standards, plans, policies?	Manakakiana Angualaninan an manakisiankian as u		in a increaste an wildlife as widen
Criteria	Vegetation: Any clearing or modification of vertical remnant vegetation & habitat for species of control of the		
Potential impacts	remnant vegetation. Areas used for exploration and habitat. Mobilisation of pollutants (potentially impact fauna. Drilling sumps of herbicides, fertilisers or other chemicals have	ence. Impact ctivities can temporation activities, such as hydroca can be a hazard to the potential to noise and air qual that could lead to	s on vegetation species and ecological orarily impact wildlife corridors and access tracks, etc not available for rbons) in soils, air or waters can for fauna. Use of pesticides, build up residues in the environment, lity impacts. Soil erosion and

Proposed management controls	The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. ***APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. From APO: "The four listed TECs (from the MNES Report) are recorded to be endangered with communities likely within the area. Proposed works are located within cropped paddocks and car be moved to ensure no vegetation is damaged." Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per th commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of reside fauna. c. Access track widths unlikely to pose significant barrier to fauna.			
	All disturbed areas to be rehabilitated in accordance: Rehabilitation). Rehabilitation to oc			
Duration	Short term		· · · · · · · · · · · · · · · · · · ·	
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?	·	studies required on impacts or mitigation?		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Threatened Fauna Species: Any adverse effect on the life cycle of any threatened species such that a viable local population of the species is likely to be placed at risk of extinction.			
Potential impacts	No impacts. CEA impact thresholds apply. An activity cannot be a CEA if it: 1. occurs on land declared as areas of outstanding biodiversity value / critical habitat, 2. has a significant effect on threatened species or ecological communites, or their habitats.			
Proposed management controls	N/A			
	The area is predominantly open cropping an vegetation will be avoided and do not need t **APO0001731 resubmitted on 17.4.24 to av value (identified along waterways) and Plant Threatened Ecological Communities (TECs) Coordinates within exploration drillhole recor From APO: "The four listed TECs (from the I communities likely within the area. Proposed be moved to ensure no vegetation is damage."	o be disturbed for the control of th	r this drilling program. estrial biodiversity, high biodiversity es (PCTs) likely associated with I site plans amended accordingly. e recorded to be endangered with	
Duration	N/A			
Application ranking What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low	
Can the impacts be reversed?	N/A	Ranking of potential significance		
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	N/A N/A	Justification f	or ranking	
Criteria	Threatened Flora Species: Any adverse effe a viable local population of the species is like			

Potential impacts	No impacts. CEA impact thresholds apply. An activity cannot be a CEA if it: 1. occurs on land declares as areas of outstanding biodiversity value or critical habitat, 2. has a significant effect on any threatened species or ecological communities, or their habitats.			
Proposed management controls	N/A	driides, or their he	abitats.	
	N/A The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. From APO: "The four listed TECs (from the MNES Report) are recorded to be endangered with communities likely within the area. Proposed works are located within cropped paddocks and can be moved to ensure no vegetation is damaged."			
Duration	N/A			
Application ranking				
What is the confidence in	N/A	Are further	N/A	
predicting impacts?		studies required on impacts or mitigation?		
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low	
Can the impacts be reversed?	N/A	Ranking of potential significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	N/A			
Criteria	Areas of outstanding biodiversity value/Critic outstanding biodiversity value under the Biodiversity value under the Biodiversity value under the Fisheries Managem	diversity Conserv		
Potential impacts	Potential impacts limited due to CEA impact occur on land declared as areas of outstand not permitted to have a significant impact on communities (or their habitats). (Also refer	threshold restricting biodiversity vertical threatened faun	alue or critical habitat. CEAs are a or flora species or ecological	
Proposed management controls	N/A			
	The area is predominantly open cropping an vegetation will be avoided and do not need t **APO0001731 resubmitted on 17.4.24 to av value (identified along waterways) and Plant Threatened Ecological Communities (TECs) Coordinates within exploration drillhole record From APO: "The four listed TECs (from the I communities likely within the area. Proposed be moved to ensure no vegetation is damaged."	to be disturbed for void areas of terror Community Typ rds, and attached MNES Report) ard d works are locate	or this drilling program. estrial biodiversity, high biodiversity es (PCTs) likely associated with I site plans amended accordingly. The recorded to be endangered with	
Duration	N/A			
Application ranking What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or	N/A	
How resilient is the environment to cope with impacts?	N/A	mitigation? What is the level of public	Low	
		concern?		
Can the impacts be reversed?	N/A	Ranking of potential significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	N/A			
Criteria	Endangered ecological community or critical activity: is likely community such that its local occurrence is I to substantially and adversely modify the coloccurrence is likely to be placed at risk of ex	to have an adver ikely to be placed mposition of the e	se effect on the extent of the ecological d at risk of extinction, or \Box is likely	

Proposed management controls	Vegetation removal and activities can temporarily impact ecological communities. Areas cleared for exploration activities, access tracks, etc not available for flora / fauna habitat. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water. Soil erosion and sediment laden runoff from disturbed areas, that could lead to soil or water contamination or land degradation. Spread of weeds, pest animals and animal/plant diseases. Removal of vegetation, barriers created by access tracks, etc can interrupt movement of fauna species. The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of				
Proposed management controls	The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. From APO: "The four listed TECs (from the MNES Report) are recorded to be endangered with communities likely within the area. Proposed works are located within cropped paddocks and can be moved to ensure no vegetation is damaged."				
	Activities must comply with CEA Location Re	estrictions, Impac	ct Thresholds and Criteria.		
	Activities must comply with (Exploration Cod commitment in the application (APO). Relev a. Minimise extent of vegetation clearing and b. Prevent adverse impacts to fauna caused fauna. c. Access track widths unlikely to pose significance.	s of this Code include: ance to as low as practicable. earing, including relocation of resident			
	All disturbed areas to be rehabilitated in accompractice: Rehabilitation). Rehabilitation to oc				
Duration	Short term	оси аз зоон аз р	racticable after completion of activity.		
Application ranking	Onort tolin				
What is the confidence in predicting impacts?	High	Are further studies required on	No		
		impacts or mitigation?			
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with standards, plans, policies?	Yes				
Criteria	Habitat of a threatened species or ecologica	community			
Proposed management controls	Potential impacts limited due to CEA impact occur in areas of outstanding biodiversity va have a significant impact on threatened faun habitats). (Also refer to flora and fauna imp	lue or critical hab a or flora species	oitat. CEAs are not permitted to		
Troposed management controls	N/A The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. From APO: "The four listed TECs (from the MNES Report) are recorded to be endangered with communities likely within the area. Proposed works are located within cropped paddocks and can be moved to ensure no vegetation is damaged."				
Duration	N/A				
Application ranking					
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A		
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low		

		<u> </u>		
Can the impacts be reversed?	N/A	Ranking of		
		potential significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with	N/A	oustilleation is	or ranking	
standards, plans, policies?				
Criteria	Habitat of protected aquatic species or those	ected aquatic species or those with conservation status.		
Potential impacts	Negligible and only localised changes to drainage flows/flooding regime. Water used for exploration not available for ecological purposes. Surface runoff can be sediment laden from areas where vegetation has been removed. Generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). No use of groundwater but potential loss through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers. Ford across creeks can cause stream bank erosion from vehicle wash. Inappropriate disposal of drilling wastes / overflow from drilling sumps.			
Proposed management controls	The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. From APO: "The four listed TECs (from the MNES Report) are recorded to be endangered with communities likely within the area. Proposed works are located within cropped paddocks and can be moved to ensure no vegetation is damaged." Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. c. No significant impact on any threatened species, threatened populations, threatened ecological communities, or their habitats. d. No removal of vegetation in waterfront land.			
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.			
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public		
Con the immedte he was and?	V	concern?	Law	
Can the impacts be reversed?	Yes	Ranking of potential	Low	
Can the impacts be mitigated?	Fully	significance Justification for ranking		
Can the impacts be mitigated? Do the operations comply with	Yes	Justineation I	OI TAIINIIIY	
standards, plans, policies?	100			
Criteria	Key Threatening Processes: As outlined in Schedule 4 of Biodiversity Conservation Act 2016. Includes: a. alteration, removal, clearly or degradation of habitat and native vegetation b. loss of hollow bearing trees c. removal of dead wood and dead trees d. invasion and establishment of exotic species.			
Potential impacts	Vegetation removal can harm threatened species or reduce local abundance of species. Areas cleared for exploration activities, access tracks, etc not available for flora habitat. Mobilisation of pollutants (such as hydrocarbons) in soils, air or waters can potentially impact fauna. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water. Soil erosion and sediment laden runoff from disturbed areas, that could lead to soil or water contamination or land degradation. Spread of weeds, pest animals and animal/plant diseases.			

Proposed management controls	The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. From APO: "The four listed TECs (from the MNES Report) are recorded to be endangered with communities likely within the area. Proposed works are located within cropped paddocks and can be moved to ensure no vegetation is damaged." Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.			
	Activities must comply with (Exploration Code of Practice: Environmental Managemen commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practica b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation fauna.			
Duration	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of active Short term			
Application ranking	Short term			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies? Criteria	Barriers to movement of fauna: Any potential to endanger, displace or disturb fauna (including faul of conservation significance) or create a barrier to their movement.			
Potential impacts	Vegetation removal can decrease available foraging/ sheltering/ breeding habitat for species and displace species from regular place of residence. Access tracks can act as a barrier to movement of small fauna species. Fauna crossing access tracks may be killed or injured if hit by vehicles. Vegetation removal can remove connective corridors used for wildlife movement. Areas used for exploration activities, access tracks, etc not available for fauna habitat. Mobilisation of pollutants (such as hydrocarbons) in soils, air or waters can potentially impact fauna. Drilling sumps can be a hazard for fauna. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water. Short term noise and air quality impacts. Soil erosion and sediment laden runoff from disturbed areas, that could lead to soil or water contamination or land degradation. Spread of weeds, pest animals and animal/plant diseases.			
Proposed management controls	The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. From APO: "The four listed TECs (from the MNES Report) are recorded to be endangered with communities likely within the area. Proposed works are located within cropped paddocks and can be moved to ensure no vegetation is damaged." Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident fauna. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.			
	commitment in the application (APO). Relev a. Minimise extent of vegetation clearing and b. Prevent adverse impacts to fauna caused fauna. All disturbed areas to be rehabilitated in according	le of Practice: En vant requirements d surface disturba by vegetation cla ordance with title	vironmental Management) as per the s of this Code include: ance to as low as practicable. earing, including relocation of resident conditions (Exploration Code of	

What is the confidence in	High	Are further	No	
predicting impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
•		public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
•		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria Criteria	Ecological & Biosecurity Impacts: Any threat to the biological diversity or ecological integrity of an ecological community.			
Potential impacts	Vegetation removal can decrease available foraging/ sheltering/ breeding habitat for species a			
1 otomiai impaoto	displace species from regular place of residence. Areas used for exploration a			
	tracks, etc not available for flora / fauna hab		tion of pollutants (such as	
	hydrocarbons) in soils, air or waters can pote			
			s or other chemicals have the potential	
	to build up residues in the environment, inclu			
	laden runoff from disturbed areas, that could			
			mals and animal/plant diseases.	
	Fauna crossing access tracks may be killed			
	may result in removal of/damage to seed sto		,	
Proposed management controls	The area is predominantly open cropping an		ith sparse vegetation. Any areas of	
. roposou management commune	vegetation will be avoided and do not need t	o be disturbed fo	or this drilling program	
	**APO0001731 resubmitted on 17.4.24 to av			
	value (identified along waterways) and Plant			
	Threatened Ecological Communities (TECs)		cs (1 010) intery abbodiated with	
			s and attached site plans amended accordingly	
	Coordinates within exploration drillhole records, and attached site plans amended accordingly.			
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.			
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the			
	commitment in the application (APO). Relevant requirements of this Code include:			
	a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable.			
	 b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of refauna. c. Setbacks from steep slopes/cliffs to limit impact of shots on cave dwelling fauna. 			
	c. Setbacks from steep slopes/clins to limit in	ripact of shots of	Toave dwelling lauria.	
	Noise impacts / disruption to fauna are temporary. Vehicle movements are limited and unlikely to have significant injury/mortality impacts.			
		ated in accordance with title conditions (Exploration Code of		
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity.	
Duration	Short term			
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
·				
		public		
		concern?		
Can the impacts be reversed?	Yes		Low	
Can the impacts be reversed?	Yes	concern?	Low	
·	Yes	concern? Ranking of	Low	
·	Yes Partly	concern? Ranking of potential		
Can the impacts be mitigated?		concern? Ranking of potential significance		
·	Partly	concern? Ranking of potential significance		
Can the impacts be mitigated? Do the operations comply with	Partly	concern? Ranking of potential significance Justification f	or ranking	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Partly Yes Ecological & Biosecurity Impacts: Creates a	concern? Ranking of potential significance Justification for the biosecurity risk of the potential significance.	or ranking or introduces genetically modified	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Partly Yes Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts from	concern? Ranking of potential significance Justification for the biosecurity risk of the introduction of t	or ranking or introduces genetically modified on of: a. mobilisation of pollutants b.	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Partly Yes Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts fro animal pests, c. plant pests and diseases,	concern? Ranking of potential significance Justification for the biosecurity risk of the introduction of t	or ranking or introduces genetically modified on of: a. mobilisation of pollutants b.	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Partly Yes Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts fro animal pests, c. plant pests and diseases, genetically modified organisms.	concern? Ranking of potential significance Justification for the introduction d. animal disease	or ranking or introduces genetically modified on of: a. mobilisation of pollutants b. uses, e. noxious weeds, or f.	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Partly Yes Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts fro animal pests, c. plant pests and diseases, genetically modified organisms. Mobilisation of pollutants (such as hydrocart	concern? Ranking of potential significance Justification for the introduction d. animal disease toons) in soils, air	or ranking or introduces genetically modified on of: a. mobilisation of pollutants b. uses, e. noxious weeds, or f. or waters can potentially impact fauna	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Partly Yes Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts fro animal pests, c. plant pests and diseases, genetically modified organisms. Mobilisation of pollutants (such as hydrocart flora. Use of pesticides, herbicides, fertil	concern? Ranking of potential significance Justification for the introduction d. animal diseases on other chesters.	or ranking or introduces genetically modified on of: a. mobilisation of pollutants b. uses, e. noxious weeds, or f. or waters can potentially impact fauna / emicals have the potential to build up	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Partly Yes Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts fro animal pests, c. plant pests and diseases, genetically modified organisms. Mobilisation of pollutants (such as hydrocart flora. Use of pesticides, herbicides, fertil residues in the environment, including in soi	concern? Ranking of potential significance Justification for the introduction d. animal diseases or other chells and water.	or ranking or introduces genetically modified on of: a. mobilisation of pollutants b. uses, e. noxious weeds, or f. or waters can potentially impact fauna / emicals have the potential to build up Spread of weeds, pest animals and	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Partly Yes Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts fro animal pests, c. plant pests and diseases, genetically modified organisms. Mobilisation of pollutants (such as hydrocart flora. Use of pesticides, herbicides, fertil residues in the environment, including in soi	concern? Ranking of potential significance Justification for the introduction d. animal diseases or other chells and water.	or ranking or introduces genetically modified on of: a. mobilisation of pollutants b. uses, e. noxious weeds, or f. or waters can potentially impact fauna / emicals have the potential to build up	

Proposed management controls	The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident fauna. c. Requirement to prevent introduction and spread of weeds, pest animals & animal and plant diseases (required to implement "come clean, go clean" protocols).			
	Practice: Rehabilitation). Rehabilitation to oc (includes weed growth management).			
	Legislative requirement for landholder access arrangements which may include additional mi measures to manage land.			
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification for	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Ecological & Biosecurity Impacts: Likely to ca		t bushfire risk.	
Proposed management controls Duration	Plant and machinery comprises a potential ignition source. The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include undertaking a risk assessment and implementing suitable controls to manage risks (e.g. implementation of controls on activities during Extreme or Catastrophic Fire Conditions will largely negate risk). Activities must comply with WHS legislative requirements. Any existing/proposed access tracks can be used as firebreaks in event of fire. Short term			
Application ranking				
What is the confidence in predicting impacts? How resilient is the environment to	High High Resilience	Are further studies required on impacts or mitigation? What is the	No	
cope with impacts?	•	level of public concern?		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	

Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Community Resources: Any degradation of infrastructure or significant increase in the demand for services and infrastructure resources.		
Potential impacts	Limited potential for any significant increase in demand for resources. Negligible potential for degradation of infrastructure, such as roads and bridges.		
Proposed management controls	Negligible impacts likely. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO) including protection all elements of the environment, culture and heritage. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (includes weed growth management). Legislative requirement for landholder access arrangements and compensation.		
Duration	Short term		
Application ranking What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	C	level of public concern?	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Community Resources: Any diversion of resessystems.		
Potential impacts	Limited potential for any significant diversion of resources to the detriment of other communities o natural systems. Negligible impacts and only localised changes. Areas used for exploratio activities, temporarily removed from natural systems and / community use.		
Proposed management controls	Negligible impacts likely. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include protection of all elements of the environment, culture and heritage. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. (includes weed growth management). Legislative requirement for landholder access arrangements and compensation.		
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with standards, plans, policies?	N/A		9
Criteria Criteria	Natural Resources: Any disruption, depletion	or destruction o	f natural resources.
Potential impacts	Limited potential for any significant diversion of resources to the detriment of other communities or natural systems. Negligible impacts and only localised changes. Areas used for exploration activities, temporarily removed as a natural resource. Vegetation removal may remove potentia timber resources. No significant impacts on other natural resources other than positive in terms of increased knowledge of geological resources.		

Proposed management controls	The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. Negligible impacts likely. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include protection of all elements of the environment (water, land, soil, air), culture and heritage. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of		
	Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. Legislative requirement for landholder access arrangements and compensation limit any potential impacts.		
Duration	N/A		
Application ranking			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?	Net and December And discontinue of a sixtin		and the same of the same of the standard
Criteria	Natural Resources: Any disruption of existing forestry, farming or extractive industries (or research)		
Proposed management controls	forestry, farming or extractive industries (or reduction of options for future activities). Limited potential for any significant disruption of existing activities (or reduction of future activities) given temporary nature of exploration. Negligible impacts and only localised & temporary changes. Areas used for exploration activities, temporarily removed as a natural resource but no long term impacts on future availability of forestry, agricultural land, soils or water resources. Vegetation removal may remove potential timber resources. The area is predominantly open cropping and grazing land with sparse vegetation. Any areas of		
	vegetation will be avoided and do not need to be disturbed for this drilling program. **APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, high biodiversity value (identified along waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs). Coordinates within exploration drillhole records, and attached site plans amended accordingly. Negligible impacts likely. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include protection of all elements of the environment (water, land, soil, air), culture and heritage.		
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. Legislative requirement for landholder access arrangements and compensation limit any potential impacts.		
Duration	Short term		
Application ranking	NI/A	A 6	NI-
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low

			T
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	Yes	- Oustinoution i	Of Fallianing
standards, plans, policies?	165		
Criteria Criteria	Natural Resources: Any use which results in the degradation of any area reserved for conservation purposes.		
Potential impacts	CEA activity not permitted in areas reserved	for conservation	purposes.
Proposed management controls	N/A		
Duration	N/A		
Application ranking			
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on Nationa		areas reserved or dedicated or
	acquired under the National Parks and Wildl	ife Act 1974.	
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	21/2		Lava
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	
		required on	
		impacts or	
Harris all and to the constraint and to	N1/A	mitigation?	1
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
can the impacts be reversed:	IV/A	potential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A	oustinoution i	Or raining
standards, plans, policies?	14/7		
Criteria Criteria	Sensitive Land Impacts: Land subject to a 'c	onservation agre	ement' under the National Parks and
	Wildlife Act 1974 and/or the Biodiversity Cor		
	agreement (established under the now repea		
	Biodiversity Stewardship agreement establis		
	Wildlife Refuge agreement established under	r the Biodiversity	Conservation Act 2016. c. Existing
	conservation agreements that continue to ha		
			onservation Trust Act 2001 Property
	vegetation plans made under the now-repea	0	•
	property agreements under the repealed Na	tive Vegetation C	Conservation Act 1997
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A		
Duration	N/A		
Application ranking			T
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	
		required on	
		impacts or	
	21/2	mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
	N/A	concern?	
Can the impacts be reversed?	N/A	Ranking of	
		potential	
On the Late of the	N/A	significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking

Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on aquatic Estate Management Act 2014. Impacts on C 2016.		
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A		
Duration	N/A		
Application ranking What is the confidence in	N/A	Are further	N/A
predicting impacts?	N/A	studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		
standards, plans, policies? Criteria	Sensitive Land Impacts: Fishing grounds and	 d commercial fish	n breeding or nursery areas.
Potential impacts	Negligible and only localised changes to dra sediment laden from areas where vegetation water use (must be licensed or use of farm of cross contamination and/or depressurisation Groundwater depressurisation effects on sur hydrocarbons) in surface water or aquifers. from vehicle wash. Inappropriate disposa	n has been removalems through land of groundwater face water. Ford across al of drilling waste	ved. Generally minimal surface dholder agreements). Interception, systems in drilling operations. Mobilisation of pollutants (such as creeks can cause stream bank erosiones / overflow from drilling sumps.
Proposed management controls	Activities must comply with CEA Location Remust comply with (Exploration Code of Pract commitment in the application (APO). Relev must implement all measures to prevent cau b. All sediment and erosion controls (includir accordance with Blue Book. c. No significa populations, threatened ecological communiwaterfront land. All disturbed areas to be (Exploration Code of Practice: Rehabilitation completion of activity.	tice: Environment ant requirements ising any adverse graduate from the impact on any ties, or their habit rehabilitated in	tal Management) as per the sof this Code include: a. Activities e impacts on water quality or quantity. roads/access tracks) to be managed in threatened species, threatened tats. d. No removal of vegetation in accordance with title conditions
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Sensitive Land Impacts: Impacts on other some set aside under the Forestry Act 2012 for conspecial management (and other) zones. but declared to be a 'controlled area' or a 'special area' under the Water Management Act 2000 defined under the Water Management Manag	nservation values Drinking water o al area' under the 0 or Hunter Wate	s. This includes flora reserves and atchment protection areas - land water NSW Act 2014, or a 'special
Potential impacts		vities in such ser	nsitive locations.
	N/A CEA Location restrictions prevent activities in such sensitive locations. N/A		
Proposed management controls			
Proposed management controls Duration	N/A		
Proposed management controls		Are further	N/A

How we dilient in the amoint amount to	NI/A	\A/la a4 i a 4la a	Liam
How resilient is the environment to cope with impacts?	N/A	What is the level of	Low
cope with impacts:		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
•		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for	or ranking
Do the operations comply with	N/A		
standards, plans, policies?	Sensitive Land Impacts: Impacts on land res	omiad ar dadiaati	ad within the meaning of the Crown
Criteria	Lands Act 1989/Crown Lands Management		
	environmental protection purposes.	Act 2010 for pres	servation of the environment of other
Potential impacts	Activity not permitted in area.		
Proposed management controls	N/A		
Duration	N/A		
Application ranking			
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	
		required on impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?	N/A	level of	LOW
cope with impacts:		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
-		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for	or ranking
Do the operations comply with	N/A		
standards, plans, policies? Criteria	Sensitive Land Impacts: Impacts on land ide	ntified as wildern	ass or declared a wilderness area
Criteria	under the Wilderness Act 1987.	illilled as wilderi	ess of declared a wilderfiess area
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A		
Duration	N/A		
Application ranking			
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	
		required on	
		impacts or mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?	13/7	level of	2011
		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for	or ranking
Do the operations comply with	N/A		
standards, plans, policies?	Sensitive Lands: Impacts on wetlands of inte	rnational signific	ance designated under the Ramsar
5.7toriu			and addignated under the Nambai
	Convention on Wetlands and those designat Important Wetlands of Australia.		
Potential impacts	Convention on Wetlands and those designate		
Potential impacts Proposed management controls	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A		
Proposed management controls Duration	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas.		
Proposed management controls Duration Application ranking	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A	ted as a nationall	y important wetland in the Directory of
Proposed management controls Duration Application ranking What is the confidence in	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A	ed as a nationall	
Proposed management controls Duration Application ranking	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A	Are further studies	y important wetland in the Directory of
Proposed management controls Duration Application ranking What is the confidence in	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A	Are further studies required on	y important wetland in the Directory of
Proposed management controls Duration Application ranking What is the confidence in	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A	Are further studies required on impacts or	y important wetland in the Directory of
Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A N/A	Are further studies required on impacts or mitigation?	y important wetland in the Directory of N/A
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A	Are further studies required on impacts or mitigation?	y important wetland in the Directory of
Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of	y important wetland in the Directory of N/A
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A N/A	Are further studies required on impacts or mitigation?	y important wetland in the Directory of N/A
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public	y important wetland in the Directory of N/A
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	y important wetland in the Directory of N/A
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Convention on Wetlands and those designat Important Wetlands of Australia. Activity not permitted in these areas. N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern?	y important wetland in the Directory of N/A Low

Do the operations comply with	N/A		
standards, plans, policies? Criteria	Sensitive Land Impacts: Impacts on land in	 dentified in an envi	ronmental planning instrument as bei
J. Horia	of biodiversity / conservation significance		
	management. Includes Coastal Wetlands		ests under State Environmental
	Planning Policy (Resilience and Hazards)	2021.	
Potential impacts	Activity not permitted in these areas.		
Proposed management controls Duration	N/A N/A		
Application ranking	IN/A		
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	1471
		required on	
		impacts or	
	N/A	mitigation?	
How resilient is the environment to cope with impacts?	N/A	What is the level of	Low
cope with impacts:		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on Aborig	ninal heritage prote	ection areas: a Aboriginal places and
Ontena	objects under the National Parks and Wild		
	identified in an environmental planning ins		
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A	A 6	I NI/A
What is the confidence in predicting impacts?	N/A	Are further studies	N/A
predicting impacts:		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
Can the impacts be reversed?	N/A	concern? Ranking of	
oan the impacts be reversed:	IV/A	potential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		
standards, plans, policies?	Considius I and Insurante Insurante on Insuite		(historia annatural). a Nationallu
Criteria	Sensitive Land Impacts: Impacts on herita and internationally recognised heritage site		
	Commonwealth Heritage List) b. Items list	sted on State Herita	age c. Heritage items and
	conservation areas identified in an environ		
Potential impacts	CEA activities not permitted in these areas	S.	
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A	A Ctl	I NI/A
What is the confidence in predicting impacts?	N/A	Are further studies	N/A
predicting impacts:		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
Can the impacts be reversed?	N/A	concern? Ranking of	
can me impacts be reversed?	I V/C	potential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		
standards, plans, policies?			
	Sensitive Land Impacts: Impacts on comm		d under the Local Government Act
Criteria		- I	
	1993 (for which a plan of management has	s been prepared).	
Potential impacts Proposed management controls		s been prepared).	

Duration	N/A		
Application ranking			
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
copo man impacto i		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
can the impacts be reversed:	IN/A	potential	
0 11 1 11 11 11	N1/A	significance	1
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on bushfire	e prone areas.	
Potential impacts	Plant and machinery may be an ignition sou	rce.	
Proposed management controls	Activities must comply with CEA Location R		ct Thresholds and Criteria. Activities
p	must comply with (Exploration Code of Prac		
	commitment in the application (APO). Relev		
	risk assessment and implementing suitable		
	controls on activities during Extreme or Cata		
			Any existing/proposed access tracks
	Activities must comply with WHS legislative can be used as firebreaks in event of fire.	requirements.	Any existing/proposed access tracks
Duration			
Duration	Short term		
Application ranking		1	Ι
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	Thigh recomonoc	level of	2011
cope with impacts:		public	
0 (1) (1		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		-
standards, plans, policies?			
Criteria	Social Impacts: Any impacts which result in	a change in the c	demographic structure of the
	community, including changes to workforce		
	change in demand for community resources		
	labour force).	(eg community i	acilities, community services and
Detential imports	Limited retential for any significant above a	41	is about the selection of the selection in the
Potential impacts	Limited potential for any significant change i		
	Negligible impacts and only localised chang		
	increase in demand for accommodation, foo	o, mecnanical an	ia iuei supplies, etc. Not large enough
	to warrant significant changes in supply.		
Proposed management controls	Negligible impacts likely due to low personn		
	Generally positive for suppliers of services a	and goods utilised	1.
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
Freezenig impastor		required on	
		impacts or	
		mitigation?	
How recilions in the environment to	High Bosilianos		Low
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
	Yes	Ranking of	Low
Can the impacts be reversed?	165		I .
Can the impacts be reversed?	165	potential	
Can the impacts be reversed?	165		
•		significance	or ranking
Can the impacts be mitigated?	Fully		or ranking
Can the impacts be mitigated? Do the operations comply with		significance	or ranking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes	significance Justification f	
Can the impacts be mitigated? Do the operations comply with	Fully	significance Justification f nat may cause su	abstantial change or disruption to the

Potential impacts	Environmental impacts from activities not of disruption to community. Areas used for			
	disruption to community. Areas used for exploration activities, temporarily removed from natural systems and / community use. Short term noise, air quality and visual impacts.			
Proposed management controls	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).			
Duration	Short term			
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?		studies required on impacts or		
How resilient is the environment to	High Resilience	mitigation? What is the	Low	
cope with impacts?	Tilgititesilietise	level of public	Low	
Can the impacts be reversed?	Yes	concern? Ranking of	Low	
can the impacts be reversed:	165	potential	Low	
		significance		
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies? Criteria	Social Impacts: Any impacts which result in	 some individuals	or communities being significantly	
Citteria	disadvantaged (e.g. change to community fa			
Potential impacts	Impacts from activities not of a nature to cau	se any significan	nt or long term change or disruption to	
			dividuals or communities - short term	
			orarily removed from natural systems	
Proposed management controls	and / community use. Short term noise, Activities must comply with CEA Location Re			
Proposed management controls	must comply with (Exploration Code of Prac	tice: Environmen	tal Management) as per the	
	commitment in the application (APO). Relev	(11: 0 1 : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	elements of the environment (water, land, so	oil, air), culture ar	nd heritage. All disturbed areas to	
	elements of the environment (water, land, so be rehabilitated in accordance with title cond	oil, air), culture ar litions (Exploratio	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation).	
	elements of the environment (water, land, so	oil, air), culture ar litions (Exploratio e after completio	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). on of activity. Legislative	
	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to	oil, air), culture ar litions (Exploration e after completion nents and compe	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). on of activity. Legislative nsation limit any potential impacts.	
Duration	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements.	oil, air), culture ar litions (Exploration e after completion nents and compe	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts.	
Duration Application ranking	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to	oil, air), culture ar litions (Exploration e after completion nents and compe	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts.	
Application ranking	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term	oil, air), culture ar litions (Exploration e after completion nents and compe	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts.	
	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements.	oil, air), culture ar litions (Exploratic e after completio ents and compe mitigate comper	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term	oil, air), culture ar litions (Exploration e after completion ents and compe mitigate comper Mare further studies required on	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term	oil, air), culture ar litions (Exploration e after completion ents and comper mitigate comper Are further studies required on impacts or	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in predicting impacts?	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High	oil, air), culture ar litions (Exploration e after completion ents and compermitigate compermitigate compermitigate compermitigate compermitigate compermitigate compermitigate on impacts or mitigation?	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term	oil, air), culture ar litions (Exploration e after completion ents and comper mitigate comper Are further studies required on impacts or	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in predicting impacts?	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High	oil, air), culture ar litions (Exploration e after completion ents and compermitigate compermitigate compermitigate compermitigate compermitigate compermitigate compermitigate compermitigate on impacts or mitigation?	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). on of activity. Legislative nsation limit any potential impacts. nsation. Activities must comply with	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern?	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of Exploration after completion impacts or mitigation?	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). on of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of Exploration after completion impacts or mitigation?	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes	oil, air), culture ar litions (Exploration e after completion ents and compermitigate compermitigate compermitigate compermitigate compermitigate compermitigate compermitigation? Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation. Activities must comply with law	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Social Impacts: Any impacts on the health, so caused by factors such as pollution, odour, in the social impacts.	oil, air), culture ar litions (Explorations (Explorations (Explorations after completions) and compermitigate compermitigate compermitigate compermitigate compermitigate on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation.	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arranger Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social source and particular source and pollution, odour, reductivities not of a nature to cause any significantly impacts. Limited potential to significantly	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f	and heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insat	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arranger Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Social Impacts: Any impacts on the health, social social social social materials and products and pollution, odour, recaused by factors such as pollution.	oil, air), culture ar litions (Explorations (Explorations (Explorations)) after completion in the compensation of the concern	All disturbed areas to on Code of Practice: Rehabilitation). on of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation.	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arranger Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social source and particular source and pollution, odour, reductivities not of a nature to cause any significantly impacts. Limited potential to significantly	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative Insation limit any potential impacts. Insation. Activities must comply with Insation. Insation. Insation. Insation I	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	elements of the environment (water, land, so be rehabilitated in accordance with title conc Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social s	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f affety, privacy or noise, vibration, licant or long term impact on individuals estrictions, Impact and requirements after the public concern?	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative Insation limit any potential impacts. Insation. Activities must comply with Insation. Activities ighting, visual impacts, etc). In health, safety, privacy or welfare duals or communities - short term and visual impacts. In the soft this code include protection of all Insation.	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	elements of the environment (water, land, so be rehabilitated in accordance with title conc Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social section and the caused by factors such as pollution, odour, in Activities not of a nature to cause any signiff impacts. Limited potential to significantly impacts only. Short term and temporary Activities must comply with CEA Location Remust comply with (Exploration Code of Praccommitment in the application (APO). Relevelements of the environment (water, land, social land).	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f affety, privacy or noise, vibration, licant or long term impact on individuals estrictions, Impact and requirements oil, air), culture ar	and heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation. Activities insation. Activities insation, visual impacts, etc). In health, safety, privacy or welfare duals or communities - short term and visual impacts. Etc. Thresholds and Criteria. Activities tal Management) as per the insoft of this Code include protection of all and heritage. All disturbed areas to	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social s	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f afety, privacy or noise, vibration, licant or long term impact on indivinoise, air quality estrictions, Impact on indivinoise, air quality estrictions (Exploration (Exploration) (Exploration)	and heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation. Activities insation. Activities insation, visual impacts, etc.). In health, safety, privacy or welfare duals or communities - short term and visual impacts. In the communities in the control of the code include protection of all and heritage. All disturbed areas to on Code of Practice: Rehabilitation).	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	elements of the environment (water, land, so be rehabilitated in accordance with title conc Rehabilitation to occur as soon as practicable requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social s	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification f afety, privacy or noise, vibration, licant or long term impact on indivinoise, air quality estrictions, Impact ice: Environment and requirements ill, air), culture are littions (Exploratice after completions)	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation. Activities insation. Activities insation, visual impacts, etc). In health, safety, privacy or welfare duals or communities - short term and visual impacts. In thresholds and Criteria. Activities it all Management) as per the is of this Code include protection of all and heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social s	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fundations, air quality estrictions, Impact ice: Environment (Exploration et after completion et after completion et and compe	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation. Activities insation. Activities insation, visual impacts, etc. In health, safety, privacy or welfare duals or communities - short term and visual impacts. In thresholds and Criteria. Activities tall Management) as per the soft his Code include protection of all and heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts.	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	elements of the environment (water, land, so be rehabilitated in accordance with title cond Rehabilitation to occur as soon as practicably requirement for landholder access arrangem Compensation under Mining Act available to WHS legislative requirements. Short term High High Resilience Yes Fully Yes Social Impacts: Any impacts on the health, social s	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fundations, air quality estrictions, Impact ice: Environment (Exploration et after completion et after completion et and compe	nd heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts. Insation. Activities must comply with insation. Activities insation. Activities insation, visual impacts, etc.). In health, safety, privacy or welfare duals or communities - short term and visual impacts. In thresholds and Criteria. Activities tall Management) as per the soft his Code include protection of all and heritage. All disturbed areas to on Code of Practice: Rehabilitation). In of activity. Legislative insation limit any potential impacts.	

	T		
Application ranking	N/A	A 6 (1	LN
What is the confidence in	N/A	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Social Impacts: Effect on a locality, place or	building having a	esthetic, anthropological.
	archaeological, architectural, cultural, histori		
	value for present or future generations?	,	
Potential impacts	Negligible potential to effect a locality, place	or building havin	a aesthetic anthropological
1 Otential Impacts	archaeological, architectural, cultural, historic		
	value due to location restrictions of a CEA.		d temporary impacts only.
Proposed management controls	Negligible impacts likely due to low impact o		
Froposed management controls			Restrictions, Impact Thresholds and
			Practice: Environmental Management)
	as per the commitment in the application (AF	o). impaci	s limited to immediate vicinity of
	exploration activity.		
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	9	level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
our the impuoto be reversed.	100	potential	LOW
		significance	
Can the impacts be mitigated?	Partly	Justification f	or ranking
Do the operations comply with	Yes	oustilication i	or ranking
	162		
standards, plans, policies? Criteria	Casial Impacts, Impacts on communities with	 atrong conce of	Fidontity
	Social Impacts: Impacts on communities with		
Potential impacts	Community likely to include members who h		
	exploration program. Short term and tem	1 / 1	,
Proposed management controls	Short term impacts on the community and pr		
	landholder agreement and any compensatio		ed areas to be rehabilitated in
	accordance with title conditions (Exploration		e: Rehabilitation). Rehabilitation to
	occur as soon as practicable after completio	n of activity.	
Duration	Short term		
Application ranking			
What is the confidence in	Medium	Are further	No
predicting impacts?		studies	
F. saisting impacts :		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	I light (Colliction	level of	
cope with impacts?			
		public	
Con the immediate in the control in	Voc	concern?	Low
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
	5 4	significance	1
Can the impacts be mitigated?	Partly	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Social Impacts: Impacts on disadvantaged c	ommunities.	
Potential impacts	No negative impacts predicted.		

Proposed management controls	Short term impacts on the community and p		ited to immediate site. Subject to	
	landholder agreement and any compensation. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to			
	occur as soon as practicable after completion		e: Renabilitation). Renabilitation to	
Duration	Short term	ii oi dolivity.		
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?		studies		
		required on impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public		
Can the impacts be reversed?	Yes	concern? Ranking of	Low	
can the impacts be reversed.	165	potential	Low	
		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies? Criteria	Foonemia Impacto: Any impacto which may	effect economic	activity (positive or posstive) including	
Cinteria	Economic Impacts: Any impacts which may a decrease to net economic welfare.	anect economic a	activity (positive of flegative), including	
Potential impacts	No significant impacts predicted. Minima		nand for accommodation, food,	
·	mechanical and fuel supplies, etc. Not large	enough to warra	ant significant changes in supply.	
Proposed management controls	Negligible impacts likely due to low personne			
Duration	Generally positive for suppliers of services a Short term	nd goods utilised	1.	
Duration Application ranking	Short term			
What is the confidence in	High	Are further	No	
predicting impacts?	1.3.1	studies		
, , ,		required on		
		impacts or		
How recilient is the environment to	Lligh Deciliones	mitigation? What is the	Low	
How resilient is the environment to cope with impacts?	High Resilience	level of	Low	
cope with impacts.		public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes		<u> </u>	
standards, plans, policies?				
Criteria	Economic Impacts: Any impacts that result in			
Potential impacts	Activities not of a scale to warrant changes i		Temporary increase in demand will	
Duran and management agetuals	result in increased income for some supplier	S.		
Proposed management controls	Negligible impacts likely due to low personners Generally positive for suppliers of services a			
Duration	Short term	ina goodo atmood	•	
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?		studies		
		required on impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public		
Can the impacts be reversed?	Yes	concern? Ranking of	Low	
can the impacts be reversed?	100	potential	LOVV	
		significance		
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies? Criteria	Economic Impacts: Any impacts which resul	t in a change to t	he nublic sector royanua ar	
Citteria	expenditure base.	tili a change to t	ne public sector revenue or	
Potential impacts	Rehabilitation security bond covers any future	re public liability f	for rehabilitation. Investment in	
•	exploration may lead to significant mining in		nited long term negative economic	
	impacts from exploration.			
Proposed management controls Duration	Small increase in public revenue associated Short term	with exploration,	including taxes from wages.	

Application ranking			
What is the confidence in predicting impacts?	High	Are further studies	No
promoung impacts		required on impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of public	
Can the impacts be reversed?	Yes	concern? Ranking of	Low
out the impacts be reversed:	103	potential significance	LOW
Can the impacts be mitigated?	No	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Heritage Impacts: Any impacts on a locality, heritage significance.	place, landscape	e, building or archaeological relic of
Potential impacts	Damage to structures and sensitive features. Limited potential to significantly impact on locality, places, landscapes or buildings. Short term noise, air quality and visual impacts.		
Proposed management controls	Potential for temporary impact on aesthetics Activities must comply with CEA Location Re		t Thresholds and Criteria. Activitie
	must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Prapracticable after completion of activity (included).	tice: Environment rant requirements onment (including All disturbed a ctice: Rehabilitat	tal Management) as per the s of this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon a
Duration	Short term		,
Application ranking	NI/A	A &	N-
What is the confidence in predicting impacts?	N/A	Are further studies	No
producting impacts.		required on	
		impacts or	
How resilient is the environment to	High Resilience	mitigation? What is the	Low
cope with impacts?	riigiri toomorioo	level of public	25**
Can the impacts be reversed?	Yes	concern? Ranking of	Low
can the impacts be reversed?	res	potential significance	Low
Can the impacts be mitigated?	Partly	Justification f	l or ranking
Do the operations comply with	Yes		<u>-</u>
standards, plans, policies? Criteria	Aesthetic Impacts: Any impacts on the visua	l or scenic lands	cape, including lighting, venting or
Potential impacts	flaring of gas. Limited potential to significantly impact on vis		
Potential impacts			on aesthetics of a locality. Lighting
Proposed management controls	during night time operations and use of acce Activities must comply with CEA Location Re	ess tracks by veh estrictions, Impac	icles at night may affect local amenity at Thresholds and Criteria. Activitie
Proposed management controls	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract	ess tracks by veh estrictions, Impac tice: Environmen	icles at night may affect local amenity at Thresholds and Criteria. Activitie tal Management) as per the
Proposed management controls	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev	ess tracks by veh estrictions, Impac tice: Environmen vant requirements	icles at night may affect local amenity at Thresholds and Criteria. Activitie tal Management) as per the s of this Code include minimising
Proposed management controls	during night time operations and use of acce Activities must comply with CEA Location Remust comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage).	ess tracks by veh estrictions, Impac tice: Environment ant requirements onment (including All disturbed a	cles at night may affect local amenity of Thresholds and Criteria. Activitie tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance
Proposed management controls	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra	ess tracks by veh estrictions, Impac- tice: Environment ant requirements onment (including All disturbed a ctice: Rehabilitat	icles at night may affect local amenity at Thresholds and Criteria. Activitie tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon as
, ,	during night time operations and use of acce Activities must comply with CEA Location Remust comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage).	ess tracks by veh estrictions, Impac- tice: Environment ant requirements onment (including All disturbed a ctice: Rehabilitat	icles at night may affect local amenity at Thresholds and Criteria. Activitie tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon as
Duration Application ranking	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra practicable after completion of activity (include	ess tracks by veh estrictions, Impac- tice: Environment ant requirements onment (including All disturbed a ctice: Rehabilitat	icles at night may affect local amenity at Thresholds and Criteria. Activitie tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon a
Duration Application ranking What is the confidence in	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra practicable after completion of activity (include	ess tracks by vehestrictions, Impactice: Environment requirements on ment (including All disturbed a ctice: Rehabilitat ding sealing of ar	icles at night may affect local amenity of Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon a
Duration Application ranking	during night time operations and use of acce Activities must comply with CEA Location Remust comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Prapracticable after completion of activity (include Short term	ess tracks by vehestrictions, Impactice: Environment ant requirements onment (including All disturbed a ctice: Rehabilitat ding sealing of ar	icles at night may affect local amenity of Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon any boreholes).
Duration Application ranking What is the confidence in	during night time operations and use of acce Activities must comply with CEA Location Remust comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Prapracticable after completion of activity (include Short term	ess tracks by vehestrictions, Impactice: Environment requirements onment (including All disturbed a ctice: Rehabilitating sealing of ar	icles at night may affect local amenity of Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon any boreholes).
Duration Application ranking What is the confidence in predicting impacts?	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra practicable after completion of activity (include Short term High	ess tracks by vehestrictions, Impactice: Environment requirements onment (including All disturbed a ctice: Rehabilitating sealing of ar	icles at night may affect local amenity of Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon any boreholes).
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Duration Application ranking What is the confidence in predicting impacts?	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra practicable after completion of activity (include Short term High	ess tracks by vehestrictions, Impactice: Environment requirements onment (including All disturbed a ctice: Rehabilitating sealing of ar	icles at night may affect local amenity of Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon any boreholes).
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra practicable after completion of activity (include Short term High High Resilience	ess tracks by vehestrictions, Impactice: Environment ant requirements onment (including All disturbed a ctice: Rehabilitating sealing of artices are further studies required on impacts or mitigation? What is the level of public concern?	icles at night may affect local amenity of Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon any boreholes). No Low
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra practicable after completion of activity (include Short term High	ess tracks by vehestrictions, Impactice: Environment requirements of the cities and the cities a	icles at night may affect local amenity of Thresholds and Criteria. Activitie tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon any boreholes).
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predicting impacts? How resilient is the environment to cope with impacts?	during night time operations and use of acce Activities must comply with CEA Location Re must comply with (Exploration Code of Pract commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). with title conditions (Exploration Code of Pra practicable after completion of activity (include Short term High High Resilience	ess tracks by vehestrictions, Impactice: Environment and requirements of the comment (including All disturbed a ctice: Rehabilitating sealing of articles are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	icles at night may affect local amenity of Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage reas to be rehabilitated in accordance ion). Rehabilitation to occur as soon any boreholes). No Low

Criteria	Aesthetic Impacts: Areas or items of high	aesthetic or scenic	value.		
Potential impacts	Limited potential to significantly impact on aesthetic or scenic value. Short term noise, air quality and visual impacts. Potential for temporary impact on aesthetics of a locality. Lighting during night time operations and use of access tracks by vehicles at night may affect local amenity. Exploration activities, including any removal of vegetation and access track locations, may impact on visual amenity.				
Proposed management controls	Short term impacts predominantly limited to immediate site. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).				
Duration	Short term				
Application ranking					
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to	High Resilience	What is the	Low		
cope with impacts?		level of public concern?			
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Partly	Justification f	or ranking		
Do the operations comply with standards, plans, policies?	Yes				
Criteria	Cultural Impacts: Any disturbance of the tree).				
Potential impacts Proposed management controls	Short term ground disturbance. Poter AHIMs dated 12.3.2024 – 0 Aboriginal sit		npact on aesthetics of a locality.		
	however could occur within 200m of a na agricultural cropped paddock and no dan not be undertaken within proximity to any Activities must comply with CEA Location cannot occur on land declared an Aborigi Activities must comply with (Exploration (commitment in the application (APO). Repotential impacts on all aspects of the en (Aboriginal and Non-Indigenous heritage All disturbed areas to be rehabilitated in a Practice: Rehabilitation). Rehabilitation to	nage to cultural herit additional sensitivit Restrictions, Impac nal Place and activi Code of Practice: En elevant requirements vironment (including).	rage is envisaged. Proposed works will ies from the list above." It Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. Invironmental Management) as per the sof this Code include minimising grater, land, air), culture and heritage		
	(including sealing of any boreholes).				
Duration	Short term				
Application ranking What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with standards, plans, policies?	Yes		<u> </u>		
Criteria	Cultural Impacts: Any impacts on known	Aboriginal objects o	r Aboriginal places.		
	Cultural Impacts: Any impacts on known Aboriginal objects or Aboriginal places.				
Potential impacts	Short term ground disturbance. Poter	ntial for impact on Al	boriginal objects and places through		

Proposed management controls	AHIMs dated 12.3.2024 – 0 Aboriginal sites and places identified. From APO: "There are no recorded Aboriginal Sites noted within the proposed drilling area on the attached AHIMS search. Proposed drilling will not be undertaken within the riparian zones (40m) of a named watercourse, however could occur within 200m of a named watercourse. The proposed drilling is within an agricultural cropped paddock and no damage to cultural heritage is envisaged. Proposed works will not be undertaken within proximity to any additional sensitivities from the list above." Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities cannot occur on land declared an Aboriginal Place and activities must not harm Aboriginal Objects. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes)			
	(including sealing of any boreholes).		·	
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Cultural Impacts: Affects areas where the lar Aboriginal objects.	·	, ·	
Potential impacts	Short term ground disturbance. Potentia ground disturbance, excavations, vegetation		poriginal objects and places through	
Proposed management controls	AHIMs dated 12.3.2024 – 0 Aboriginal sites and places identified. From APO: "There are no recorded Aboriginal Sites noted within the proposed drilling area on the attached AHIMS search. Proposed drilling will not be undertaken within the riparian zones (40m) of a named watercourse, however could occur within 200m of a named watercourse. The proposed drilling is within an agricultural cropped paddock and no damage to cultural heritage is envisaged. Proposed works will not be undertaken within proximity to any additional sensitivities from the list above." Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities cannot occur on land declared an Aboriginal Place and activities must not harm Aboriginal Objects. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).			
Duration	Short term			
Application ranking	T.P. I		N	
What is the confidence in predicting impacts? How resilient is the environment to	High High Resilience	Are further studies required on impacts or mitigation?	No	
cope with impacts?		level of public concern?		
Can the impacts be reversed? Can the impacts be mitigated?	Yes	Ranking of potential significance Justification for	Low or ranking	
Can the impacts be initigated?	i uny	- Justineation I	or running	

Do the operations comply with standards, plans, policies?	Yes				
Criteria	Cultural Impacts: Affects areas subject to na joint management arrangements.				
Potential impacts	Condition of exploration title/authority prohibits exploration on any land or waters on which Native Title has not been extinguished, unless the prior consent of the Minister has been obtained.				
Proposed management controls	Condition of exploration title/authority prohibits exploration on any land or waters on which Native				
	Title has not been extinguished, unless the prior consent of the Minister has been obtained.				
Duration	Short term				
Application ranking			I		
What is the confidence in predicting impacts?	High	Are further studies	No		
predicting impacts:		required on			
		impacts or			
		mitigation?			
How resilient is the environment to cope with impacts?	High Resilience	What is the level of	Low		
cope with impacts:		public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		potential			
Can the impacts be mitigated?	Fully	significance Justification f	or ranking		
Do the operations comply with	Yes	ousumoduon i	or ranking		
standards, plans, policies?					
Criteria	Cultural Impacts: Impacts on Aboriginal com		,		
Potential impacts	Condition of exploration title/authority prohib	its exploration or	any land or waters on which Native		
	Title has not been extinguished, unless the				
	Activities must comply with CEA Location Recannot occur on land declared an Aboriginal				
	Any impacts are short term and temporary.	Flace and activi	ties must not harm Abongmai Objects.		
Proposed management controls	Condition of exploration title/authority prohib	its exploration or	any land or waters on which Native		
	Title has not been extinguished, unless the p	orior consent of the	ne Minister has been obtained.		
	Activities must comply with CEA Location Ro				
Duration	cannot occur on land declared an Aboriginal Short term	Place and activi	ties must not narm Abonginai Objects.		
Application ranking	Glioreteini				
What is the confidence in	High	Are further	No		
predicting impacts?		studies			
		required on impacts or			
		mitigation?			
How resilient is the environment to	High Resilience	mitigation? What is the	Low		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of	Low		
	High Resilience	What is the level of public	Low		
cope with impacts?		What is the level of public concern?			
		What is the level of public			
cope with impacts? Can the impacts be reversed?	Yes	What is the level of public concern? Ranking of potential significance	Low		
cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	Yes	What is the level of public concern? Ranking of potential	Low		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	Yes	What is the level of public concern? Ranking of potential significance	Low		
cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	Yes	What is the level of public concern? Ranking of potential significance Justification f	Low or ranking		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Yes Fully Yes	What is the level of public concern? Ranking of potential significance Justification f	Low or ranking		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or s Short term and temporary impacts only.	What is the level of public concern? Ranking of potential significance Justification f	Low or ranking logical, archaeological, architectural,		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Yes Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or s Short term and temporary impacts only. Activities must comply with CEA Location Re	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value.	Low or ranking logical, archaeological, architectural,		
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cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or seems cultural, heritage, with CEA Location Remust comply with (Exploration Code of Practice Commitment in the application (APO). Relevant potential impacts on all aspects of the environment (Aboriginal and Non-Indigenous heritage). All disturbed demarcated and avoided. All disturbed	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment vant requirements onment (including boriginal or Euro ed areas to be ref	Low logical, archaeological, architectural, tt Thresholds and Criteria. Activitie tal Management) as per the s of this Code include minimising water, land, air), culture and heritage pean heritage objects/items/areas to nabilitated in accordance with title		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or seems cultural, heritage, with CEA Location Remust comply with (Exploration Code of Practice). All disturbed conditions (Exploration Code of Practice: Recreation	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment vant requirements onment (including boriginal or Euro ed areas to be releabilitation). Release	Low logical, archaeological, architectural, tt Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage pean heritage objects/items/areas to nabilitated in accordance with title nabilitation to occur as soon as		
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Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or seems cultural, heritage, with CEA Location Remust comply with (Exploration Code of Practice). All disturbed conditions (Exploration Code of Practice: Recreation	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment vant requirements onment (including boriginal or Euro ed areas to be releabilitation). Release	Low logical, archaeological, architectural, tt Thresholds and Criteria. Activities tal Management) as per the sof this Code include minimising water, land, air), culture and heritage pean heritage objects/items/areas to nabilitated in accordance with title nabilitation to occur as soon as		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or see Short term and temporary impacts only. Activities must comply with CEA Location Remust comply with (Exploration Code of Pract commitment in the application (APO). Relevant potential impacts on all aspects of the environ (Aboriginal and Non-Indigenous heritage). A be demarcated and avoided. All disturbed conditions (Exploration Code of Practice: Repracticable after completion of activity (included).	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment vant requirements onment (including boriginal or Euro ed areas to be releabilitation). Release	Low logical, archaeological, architectural, tt Thresholds and Criteria. Activitie tal Management) as per the s of this Code include minimising water, land, air), culture and heritage pean heritage objects/items/areas to habilitated in accordance with title habilitation to occur as soon as		
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Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or seems terms and temporary impacts only. Activities must comply with CEA Location Remust comply with (Exploration Code of Practice Commitment in the application (APO). Relevation potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). A be demarcated and avoided. All disturbed conditions (Exploration Code of Practice: Repracticable after completion of activity (incluing).	What is the level of public concern? Ranking of potential significance Justification f of high anthropo cientific value. estrictions, Impactice: Environment/ant requirements/onment (including boriginal or Euro dareas to be releabilitation). Releding sealing of an Are further studies required on	Low logical, archaeological, architectural, et Thresholds and Criteria. Activities tal Management) as per the softhis Code include minimising ywater, land, air), culture and heritage pean heritage objects/items/areas to nabilitated in accordance with title nabilitation to occur as soon as my boreholes).		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or seems terms and temporary impacts only. Activities must comply with CEA Location Remust comply with (Exploration Code of Practice Commitment in the application (APO). Relevation potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). A be demarcated and avoided. All disturbed conditions (Exploration Code of Practice: Repracticable after completion of activity (incluing).	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment vant requirements onment (including boriginal or Euro dareas to be releabilitation). Releding sealing of ar	Low logical, archaeological, architectural, et Thresholds and Criteria. Activities tal Management) as per the softhis Code include minimising ywater, land, air), culture and heritage pean heritage objects/items/areas to nabilitated in accordance with title nabilitation to occur as soon as my boreholes).		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or second term and temporary impacts only. Activities must comply with CEA Location Remust comply with (Exploration Code of Practice Commitment in the application (APO). Relevation potential impacts on all aspects of the environ (Aboriginal and Non-Indigenous heritage). A be demarcated and avoided. All disturbed conditions (Exploration Code of Practice: Repracticable after completion of activity (incluminal). High	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment vant requirements onment (including boriginal or Euro dareas to be releabilitation). Releding sealing of ar	Low logical, archaeological, architectural, et Thresholds and Criteria. Activitie tal Management) as per the s of this Code include minimising water, land, air), culture and heritage pean heritage objects/items/areas to habilitated in accordance with title habilitation to occur as soon as hy boreholes).		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or seems terms and temporary impacts only. Activities must comply with CEA Location Remust comply with (Exploration Code of Practice Commitment in the application (APO). Relevation potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). A be demarcated and avoided. All disturbed conditions (Exploration Code of Practice: Repracticable after completion of activity (incluing).	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment vant requirements onment (including boriginal or Euro dareas to be releabilitation). Releding sealing of ar	Low logical, archaeological, architectural, et Thresholds and Criteria. Activitie tal Management) as per the s of this Code include minimising ywater, land, air), culture and heritage pean heritage objects/items/areas to habilitated in accordance with title habilitation to occur as soon as hy boreholes).		
Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or second term and temporary impacts only. Activities must comply with CEA Location Remust comply with (Exploration Code of Practice Commitment in the application (APO). Relevation potential impacts on all aspects of the environ (Aboriginal and Non-Indigenous heritage). A be demarcated and avoided. All disturbed conditions (Exploration Code of Practice: Repracticable after completion of activity (incluminal). High	What is the level of public concern? Ranking of potential significance Justification f of high anthropo scientific value. estrictions, Impactice: Environment (including boriginal or Euro et areas to be referabilitation). Reference areas to be referabilitation). Reference areas to be referabilitation of areas to be referabilitation of areas to be referabilitation of areas to be referabilitation. Reference areas to be referable areas to	Low logical, archaeological, architectural, et Thresholds and Criteria. Activitie tal Management) as per the s of this Code include minimising water, land, air), culture and heritage pean heritage objects/items/areas to habilitated in accordance with title habilitation to occur as soon as hy boreholes).		

Can the impacts be reversed?	N/A	Ranking of potential significance	Low		
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with standards, plans, policies?	Yes	Guotinoution	orranking		
Criteria	Land Use Impacts: Any major changes in lar uses.	nd use, including	curtailment of other beneficial land		
Potential impacts	Limited potential for any major changes in land use due to short term and temporary nature of exploration. Negligible impacts and limited to immediate vicinity of site. Areas used for exploration activities, temporarily removed from existing land use/s but no long term impacts (e.g. temporary impacts on productive rural industries, including agriculture). Vegetation removal markets are producted to the control of the contr				
Proposed management controls	(Exploration Code of Practice: Rehabilitation	ds and Criteria. Il Management) a o be rehabilitated). Rehabilitation	Activities must comply with as per the commitment in the in accordance with title conditions		
Duration	Short term				
Application ranking					
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	No	Justification f	or ranking		
Do the operations comply with	Yes	- Gustinoution i	or runking		
standards, plans, policies?	165				
Criteria Criteria	Transportation Impacts: Substantial impacts pedestrian) which alter present patterns of ci				
Potential impacts	Short term additional traffic during exploratio				
Proposed management controls	,		ily during set-up/construction stage. ent and any compensation.		
Duration	Short term				
Application ranking					
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with standards, plans, policies?	Yes				
Criteria	Transportation Impacts: Impacts associated	with direct or ind	irect additional traffic.		
Potential impacts	Short term additional traffic during exploratio	n activity, primar	ily during set-up/construction stage.		
Proposed management controls	Short term additional traffic during exploratio Limited to immediate site. Subject to lar	n activity, primar			
Duration	Short term				
Application ranking		.			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		

Can the impacts be reversed?	Yes	Ranking of	Low		
		potential significance			
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with standards, plans, policies?	Yes		<u>g</u>		
Criteria	Consistency with applicable local strategic planning statements, regional strategic plans or district strategic plans.				
Potential impacts	Temporary and short term impact on the land.				
Proposed management controls	Exploration comprises development that does not need consent under the EP&A Act and				
Duration	associated local, regional and district plans. There will be no conflict or inconsistency with applicable local strategic planning statements, regional strategic plans or district strategic plans. Minimal impacts likely and limited to immediate site of the activity. Impacts are compensable under relevant legislation, including Mining Act 1992 and Petroleum (Onshore) Act 1991. Subject to landholder agreement and any compensation. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes). Short term - until land is rehabilitated.				
	Snort term - until land is renabilitated.				
Application ranking What is the confidence in	High	Are further	No.		
predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Uncertain	Ranking of potential significance	Low		
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with	Yes				
standards, plans, policies?			NIEG 1 11 0 111		
Criteria	Matters of National Environmental Significan	ice: Impacts on N	INES under the Commonwealth		
Potential impacts	Environmental Protection and Biodiversity Conservation Act 1999: N/A as activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.				
Proposed management controls	Cannot impact on MNES. N/A				
	SEED search 25.3.2024 – Land zoned RU1. **APO0001731 resubmitted on 17.4.24 to avulnerability, high biodiversity value (identifice (PCTs) likely associated with Threatened Ecall within Bushfire Prone Land – Veg Categor Proposed drillhole coordinates not within any MNES report 12.3.2024: Endangered TECs likely to occur in area: Coolibah - Black Box Woodlands of Bioregions	roid areas of terried along waterway cological Commulory 3. by PCT. the Darling River Grassy Woodland uvial Plains ered ea: n 17.4.24, with re- ersity, high biodiv CTs) likely associ	ays) and Plant Community Types nities (TECs). Time Plains and the Brigalow Belt South as and Derived Native Grasslands of the Brigalow Belt South as and Derived Native Grasslands of the Brigalow Belt South as and Derived Native Grasslands of the Brigalow Belt South as and Derived Native Grasslands of the Brigalow Belt South as and Derived Native Grasslands of the Brigalow Belt South Associated With Threatened Ecological		
Duration	N/A				
Application ranking	14/15				
Application ranking					

What is the confidence in	N/A	Are further	N/A		
predicting impacts?		studies			
		required on			
		impacts or			
		mitigation?			
How resilient is the environment to	N/A	What is the	Low		
cope with impacts?		level of			
		public			
		concern?			
Can the impacts be reversed?	N/A	Ranking of			
		potential			
		significance			
Can the impacts be mitigated?	N/A	Justification for	or ranking		
Do the operations comply with	N/A				
standards, plans, policies?					
Criteria	Cumulative Impacts: Cumulative environment	ntal effects with o	ther existing or likely future activities.		
Potential impacts	Only short term and temporary impacts.	No significant ad	ditional impacts on the environment		
	from past, current and relevant future projec		'		
Proposed management controls	SEED search 25.3.2024 - Land zoned RU1.				
ropossa management commens	**APO0001731 resubmitted on 17.4.24 to avoid areas of terrestrial biodiversity, groundwater				
	vulnerability, high biodiversity value (identified along waterways) and Plant Community Types				
	(PCTs) likely associated with Threatened Ed				
	All within Bushfire Prone Land – Veg Catego		1100 (1200).		
	Proposed drillhole coordinates not within any PCT.				
		,			
	MNES report 12.3.2024:				
	Endangered TECs likely to occur in area:				
	,				
	 Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions 				
	Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of				
	South-eastern Australia				
	Poplar Box Grassy Woodland on All				
	Weeping Myall Woodlands Endange				
	Endangered species likely to occur in the are	ea:			
	Major Mitchell's Cockatoo (eastern)				
	South-eastern Hooded Robin				
	Australian Painted Snipe				
	• Koala				
	Grey Snake **Given revised APO0001731 resubmitted on 17.4.24, with revised drilling locations within cropped				
	paddock, avoiding areas of terrestrial biodiversity, high biodiversity value				
	waterways) and Plant Community Types (PCTs) likely associated with Threatened Ecological Communities (TECs), considered low risk of impact to the above.				
	Short term impacts predominantly limited to immediate site.				
	Subject to landholder agreement and any compensation.				
	Activities much committee OFA Land	atriatic I	t Throoboldo and Cuitania		
	Activities must comply with CEA Location Re	, ,			
	Activities must comply with (Exploration Cod	e of Practice: En	vironmental Management) as per the		
	Activities must comply with (Exploration Cod commitment in the application (APO). Relev	e of Practice: En	vironmental Management) as per the		
	Activities must comply with (Exploration Cod	e of Practice: En	vironmental Management) as per the		
	Activities must comply with (Exploration Cod commitment in the application (APO). Relevimpacts on the environment.	e of Practice: En rant requirements	vironmental Management) as per the s of this Code include minimising all		
	Activities must comply with (Exploration Cod commitment in the application (APO). Relevimpacts on the environment. All disturbed areas to be rehabilitated in account.	e of Practice: En rant requirements ordance with title	vironmental Management) as per the of this Code include minimising all conditions (Exploration Code of		
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