

Wednesday 24 April 2024

Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors

Canonba Nth 3 | APO0001692

Decision Maker	Monique Meyer
Prepared by	Jenifa Richards
Title	EL 8848 (1992)
Authorised Representative	
Project name	Canonba Nth 3
Activity type	Non-Complying Exploration Activity

Issue

has sought an activity approval in respect of Canonba Nth 3, within EL 8848 (1992), at 20km west of the locality of Oxley, NSW.

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

This exploration activity approval is being sought under EL 8848 (granted 23 April 2019 & expires 23 April 2025) to undertake assessable prospecting operations.

The current security deposit held for EL 8848 is \$10,000

This application forms part of the Canonba Nth exploration program and previously approved exploration activities that form part of this program include:

1. APO1653 for 2 drill holes approved on 02 Feb 2024.

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 Canonba Nth 3* 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 application triggered a review of the assessed deposit to secure funding for the fulfilment of obligations if Canonba Nth 3 is approved.

Refer to RCE Record RCE0001778

Assessment of Impacts (Non-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.

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.

Additional terms (if approved)

No additional terms are required.

Summary

Based on the information provided in the APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING OPERATIONS Canonba Nth 3 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, Jenifa Richards, 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 Canonba Nth 3 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	Air impacts from the proposed program are negligible. The nearest sensitive receptor located over 5km away from proposed drilling is the Millmalands HS. As mud rotary and diamond drilling does not produce significant dust the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes.
	No new tracks are being created.
Proposed management controls	Drilling will not occur within 2km of sensitive receptors. Vehicles will travel slowly along all farm tracks to minimise travelling dust. Vehicles will be well maintained to minimise excessive exhaust fumes. Landholder consultation throughout the whole program to ensure best and appropriate practices are being maintained.
Duration	14
Application ranking	Negligible

What is the confidence in predicting	High	Are further	No
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 for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Air Impacts: Greenhouse or ozone impacts.	I	
Potential impacts	Air impacts from the proposed program are neg	rligihle	
l'otential impacts	The nearest sensitive receptor located over 5kn		ed drilling is the Millmalands HS As mud
	rotary and diamond drilling does not produce si		
	negligible.	gillicatit dust the li	ipact to the receptor is predicted to be
		at roloosing overes	who ust furmer
	All vehicles will be in good working order and no	ot releasing excess e	exhaust rumes.
Descend an and the second s	No new tracks are being created.		
Proposed management controls	Drilling will not occur within 2km of sensitive re	•	
	Vehicles will travel slowly along all farm tracks t		0
	Vehicles will be well maintained to minimise ex		
	Landholder consultation throughout the whole	program to ensure	best and appropriate practices are being
	maintained.		
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
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	2011
cope with impacts.		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
can the impacts be reversed:	165	potential	LOW
		significance	
Con the importe he mitigated?	Douthy	Justification for ra	auking
Can the impacts be mitigated?	Partly	Justification for ra	апкіпg
	Yes		
Do the operations comply with			
standards, plans, policies?		1 1 1 1	
	Air Impacts: Additional impacts on areas with de	egraded air quality.	
standards, plans, policies?			
standards, plans, policies? Criteria	Air Impacts: Additional impacts on areas with de	ligible.	ed drilling is the Millmalands HS. As mud
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Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Water Impacts: Impacts from the use of surface	5		
Potential impacts	The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is Milmiland Creek which runs through the proposal area. No drilling within 200m of creek. Drilling is not expected to impact Milmiland Creek as the method of drilling will ensure that all ground water remains in the ground, and there will be no ancillary water stored on site. All proposed activities will be completed in dry season as the anaroval area is within the Marcuarie Marshes Wetland			
	the approval area is within the Macquarie Mars			
Proposed management controls	Drilling will not be undertaken during extreme v Groundwater is not expected to cause concerna concerns.			
	Application committments: No ancillary water to be stored. Drilling fluids retained in above ground sumps.			
Devention	Drilling fluids retained in above ground sumps.			
Duration Application ranking	Positive	14 Desitive		
What is the confidence in predicting	High	Are further	No	
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	Low	
		significance		
Can the impacts be mitigated?	Fully	Justification for r	anking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Water Impacts: Impacts from storage of water	1		
Potential impacts	water is contained in the same strata and not or The program is not expected to have an impact Creek which runs through the proposal area. No impact Milmiland Creek as the method of drillin	The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure t water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is Milmiland Creek which runs through the proposal area. No drilling within 200m of creek. Drilling is not expected to impact Milmiland Creek as the method of drilling will ensure that all ground water remains in the ground and there will be no ancillary water stored on site. All proposed activities will be completed in dry season		
Proposed management controls	Drilling will not be undertaken during extreme v Groundwater is not expected to cause concern concerns. Application Committments: No ancillary water required. Drilling fluids kept in above ground sumps.	weather events and		
Duration	14			
Application ranking	Negligible			
Application ranking What is the confidence in predicting impacts?	Negligible High	Are further studies required on impacts or mitigation?	No	
What is the confidence in predicting		studies required on impacts or	No	
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	High High Resilience	studies required on impacts or mitigation? What is the level of public concern?	Low	
What is the confidence in predicting impacts? How resilient is the environment to	High	studies required on impacts or mitigation? What is the level of public		
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	High High Resilience	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	Low	
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	High High Resilience Yes	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	Low	

Potential impacts	The program is not expected to impact groundw		0	
	water is contained in the same strata and not cross to different water bearing strata.			
	The program is not expected to have an impact on surface water. The nearest watercourse is Milmiland Creek which runs through the proposal area. No drilling within 200m of creek. Drilling is not expected to			
	impact Milmiland Creek as the method of drillin			
	and there will be no ancillary water stored on si	•	•	
	the approval area is within the Macquarie Mars		ivities will be completed in dry season a	
Proposed management controls	Drilling will not be undertaken during extreme v		so surface water will not be affected.	
	Groundwater is not expected to cause concern			
	concerns.			
	Application committments:			
	Sensitive swamplands to be avoided.			
	Work to occur in dry season, and not during we			
Duration	No drilling within 200m of nearest named waterway.			
Application ranking	14 Positive			
What is the confidence in predicting	High Are further No			
impacts?	ingn	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		
Con the immedia he mitirated?	r.ll.	significance		
Can the impacts be mitigated? Do the operations comply with	Fully Yes	Justification for ra	anking	
standards, plans, policies?	res			
stanuarus, pians, poncies:				
	Water Impacts: Impacts from aquifer interferen	Water Impacts: Impacts from aquifer interference, including changes to inter-aquifer connectivity.		
Criteria				
Criteria	The program is not expected to impact groundv	vater. Suitable drilli	ng methods will be utilised to ensure that	
Criteria	The program is not expected to impact groundw water is contained in the same strata and not cr	vater. Suitable drillin oss to different wat	ng methods will be utilised to ensure that ter bearing strata.	
Criteria	The program is not expected to impact groundw water is contained in the same strata and not cr The program is not expected to have an impact	vater. Suitable drillin oss to different wat on surface water. T	ng methods will be utilised to ensure tha ter bearing strata. he nearest watercourse is Milmiland	
Criteria	The program is not expected to impact groundw water is contained in the same strata and not cr The program is not expected to have an impact Creek which runs through the proposal area. No	vater. Suitable drillin oss to different wat on surface water. T o drilling within 200	ng methods will be utilised to ensure tha ter bearing strata. 'he nearest watercourse is Milmiland m of creek. Drilling is not expected to	
Criteria	The program is not expected to impact groundw water is contained in the same strata and not cr The program is not expected to have an impact Creek which runs through the proposal area. No impact Milmiland Creek as the method of drillin	vater. Suitable drillin oss to different wat on surface water. T o drilling within 2000 g will ensure that a	ng methods will be utilised to ensure that ter bearing strata. 'he nearest watercourse is Milmiland m of creek. Drilling is not expected to Il ground water remains in the ground,	
Criteria Potential impacts	The program is not expected to impact groundw water is contained in the same strata and not cr The program is not expected to have an impact Creek which runs through the proposal area. No impact Milmiland Creek as the method of drillin and there will be no ancillary water stored on si	vater. Suitable drillin oss to different wat on surface water. T o drilling within 2000 g will ensure that a te. All proposed act	ng methods will be utilised to ensure that ter bearing strata. 'he nearest watercourse is Milmiland m of creek. Drilling is not expected to Il ground water remains in the ground,	
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Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	The program is not expected to impact groundw water is contained in the same strata and not or The program is not expected to have an impact Creek which runs through the proposal area. No impact Milmiland Creek as the method of drillin and there will be no ancillary water stored on si the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme v Groundwater is not expected to cause concernation concerns. Application commitments: No bores in approval area. Drilling methods to be utilised to ensure that wa water bearing strata. Work will be conducted in the dry season and n Groundwater encountered during drilling will be Rehabilitation will entail cementing from the ba cross into different strata. Work completed in accordance with requirement Exploration Code of Practice - Environmental M 14 Positive High Medium Resilience	vater. Suitable drillin oss to different wat on surface water. T o drilling within 2000 g will ensure that al te. All proposed act hes Wetland. veather events and as areas close by ha ater contained in th ot during wet condi e managed and com se of the hole to 1n hts of both Explorat anagement. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	ng methods will be utilised to ensure that ter bearing strata. The nearest watercourse is Milmiland m of creek. Drilling is not expected to Il ground water remains in the ground, ivities will be completed in dry season a so surface water will not be affected. The been drilled previously with no re same strata and not cross to different itions. tained by the drilling methods. In from surface to ensure water does not cion Code of Practice - Rehabilitation, and No	

Criteria	Water Impacts: Impacts from changes to flooding or tidal regimes.			
Potential impacts	The program is not expected to impact ground	water. Suitable drilli	ng methods will be utilised to ensure that	
	water is contained in the same strata and not cross to different water bearing strata.			
	The program is not expected to have an impact on surface water. The nearest watercourse is Milmiland			
	Creek which runs through the proposal area. No	o drilling within 200	n of creek. Drilling is not expected to	
	impact Milmiland Creek as the method of drillir	ng will ensure that a	l ground water remains in the ground,	
	and there will be no ancillary water stored on s	ite. All proposed act	ivities will be completed in dry season as	
	the approval area is within the Macquarie Mars	hes Wetland.		
Proposed management controls	Drilling will not be undertaken during extreme weather events and so surface water will not be a			
	Groundwater is not expected to cause concern	as areas close by ha	ve been drilled previously with no	
	concerns.			
	Application committments:			
	No impact is expected as the drilling method w	ill ensure that all gro	und water remains in the ground, and	
	there will be no ancillary water stored on site.			
	No drilling will occur within 200m of nearest na	,		
	There are areas of swampland which are sensit	ive and will be avoid	ed, in addition, work will be conducted i	
	the dry season and not during wet conditions.			
Duration	14			
Application ranking	Positive			
What is the confidence in predicting	High	Are further	No	
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 r	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Water Impacts: Impacts from changes in surfac	e or groundwater qu	ality and quantity.	
Potential impacts	The program is not expected to impact ground	water. Suitable drilli	ag methods will be utilised to ensure that	
	water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is Milmiland			
	Creek which runs through the proposal area. No			
	impact Milmiland Creek as the method of drillir	-		
	and there will be no ancillary water stored on s	-		
	-			
Pronosed management controls	the approval area is within the Macquarie Mars		· · · · · · · · · · · · · · · · · · ·	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme	weather events and	so surface water will not be affected.	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern	weather events and	so surface water will not be affected.	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme	weather events and	so surface water will not be affected.	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns.	weather events and	so surface water will not be affected.	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments:	weather events and as areas close by ha	so surface water will not be affected. ve been drilled previously with no	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit	weather events and as areas close by ha	so surface water will not be affected. ve been drilled previously with no	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions.	weather events and as areas close by ha ive and will be avoic	so surface water will not be affected. ve been drilled previously with no	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na	weather events and as areas close by ha ive and will be avoic med waterway.	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri	weather events and as areas close by ha ive and will be avoic med waterway. Iling as the mud rot	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro	weather events and as areas close by ha ive and will be avoic med waterway. Iling as the mud rot ss to different water	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata.	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how	weather events and as areas close by ha ive and will be avoic med waterway. Iling as the mud rot ss to different water	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata.	
Proposed management controls	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground.	weather events and as areas close by ha ive and will be avoic med waterway. Iling as the mud rot ss to different water	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata.	
	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat.	weather events and as areas close by ha ive and will be avoic med waterway. Iling as the mud rot ss to different water	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata.	
Duration	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14	weather events and as areas close by ha ive and will be avoic med waterway. Iling as the mud rot ss to different water	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata.	
Duration Application ranking	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive	weather events and as areas close by ha ive and will be avoic med waterway. Iling as the mud rot ss to different water vever with the propo	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot ss to different water vever with the propo	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata.	
Duration Application ranking	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot ss to different water vever with the propo	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot ss to different water vever with the propo Are further studies required on	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot ss to different water vever with the propo	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot ss to different water vever with the propo Are further studies required on	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot. ss to different water vever with the propo- vever with t	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting impacts?	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive High	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot. ss to different water vever with the propo- vever with the propo- vever with the propo- required on impacts or mitigation?	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive High	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot. ss to different water vever with the propo- vever with the propo- vever with the propo- required on impacts or mitigation? What is the	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive High	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot. ss to different water vever with the propo- vever with t	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme of Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive High Resilience	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot. ss to different water vever with the propo Are further studies required on impacts or mitigation? What is the level of public concern?	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	the approval area is within the Macquarie Mars Drilling will not be undertaken during extreme of Groundwater is not expected to cause concern concerns. Application committments: There are areas of swampland which are sensit the dry season and not during wet conditions. No drilling will occur within 200m of nearest na Bores are not anticipated to be impacted by dri water contained in the same strata and not cro Salinity of groundwater will be considered, how remain in the ground. Topography is typically flat. 14 Positive High Resilience	weather events and as areas close by ha ive and will be avoid med waterway. Iling as the mud rot. ss to different water vever with the propo Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	so surface water will not be affected. ve been drilled previously with no ed, in addition, work will be conducted i ary and diamond drilling ensures that bearing strata. used drilling methods groundwater will No	

Do the operations comply with	Yes		
standards, plans, policies? Criteria	Soil & Stability Impacts: Degradation of soil qua	lity (including conta	mination salinisation or acidification)
Potential impacts	The effects of this small drilling program within		
Fotential impacts	soil in this area. Existing tracks will be utilised w mitigate wind erosion issues.		
Proposed management controls	There will be no vegetation clearing for this drill program. Minor clearing of grass may be required sites safe, should this be necessary care will be taken to ensure to leave root stock to enable exist vegetation regrowth. Minimal surface disturbance to ensure minimal impact to the soil. Utilising e tracks where possible, should soil compaction require scarification then the landholder will manage ensure all ground is returned to existing state. Application committments: Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will be considered.		
	Salinity of groundwater will be considered, how remain in the ground. Access to proposed collar locations will be unde Drilling contractors will utilise above ground sur Work completed in accordance with requirement Exploration Code of Practice - Environmental M Drill pad area, affecting approximately 10 x 20m this be necessary care will be taken to ensure to	ertaken in close cons mps and so no excav nts of both Explorat anagement. n may require minor	sultation with the landholders. vations are required. ion Code of Practice - Rehabilitation, and • clearing of grass from the surface, shoul
Duration	14		
Application ranking What is the confidence in predicting impacts?	Negligible 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 for ra	anking
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Soil & Stability Impacts: Impacts on land with hi	h agricultural capa	hility
Potential impacts	The effects of this small drilling program within soil in this area. Existing tracks will be utilised w mitigate wind erosion issues.	the area will not ca	use soil erosion. There is no acid sulphate
Proposed management controls	mitigate wind erosion issues. There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to m sites safe, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. Minimal surface disturbance to ensure minimal impact to the soil. Utilising existin tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.		
	Application committments: The proposed drilling areas cover soil types 3 and 4 from the Land and Soil Capability Classification. Even though this is not super sensitive, Company procedures will remain as if it is sensitive with access be restricted to only vital personnel and vehicle movement restricted where possible. Should compaction occ of the temporary access routes, this will likely be scarified after use by the landholder. AlS Management Controls: The proposed exploration program is not on but 1.5km from mapped Strategic Agricultural Land (SAL) Rehabilitation outcomes will achieve: No residual soil or visual contamination; Runoff water quality is similar		
	to pre-disturbance runoff water quality; and Re-		
Duration	14		
Application ranking	Negligible	And Cath	
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 ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Loss of soil from wind o		
Potential impacts	The effects of this small drilling program within the area will not cause soil erosion. There is no acid sulphate soil in this area. Existing tracks will be utilised where possible. This area has vegetation nearby which will		
	mitigate wind erosion issues.	nere possible. This	area has vegetation hearby which will
Proposed management controls	There will be no vegetation clearing for this dril	program Minor cl	aring of grass may be required to make
roposed management controls	sites safe, should this be necessary care will be		
	vegetation regrowth. Minimal surface disturbar		0
	tracks where possible, should soil compaction r	equire scarification	then the landholder will manage and
	ensure all ground is returned to existing state.		
	.		
	Application committments: Wind erosion will be assessed in consultation w	ith the landholder r	rior to site access and mitigation
	measures considered.		inor to site access and mitigation
	Work will be conducted in the dry season and n	ot during wet condi	tions.
		0	
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	5	level of public	
		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Loss of structural integr	ity of the soil.	
Potential impacts		-	use soil erosion. There is no acid sulphate
	The effects of this small drilling program within the area will not cause soil erosion. There is no acid sulphate soil in this area. Existing tracks will be utilised where possible. This area has vegetation nearby which will		
	mitigate wind erosion issues.		
Proposed management controls	There will be no vegetation clearing for this dril	l program. Minor cle	earing of grass may be required to make
	sites safe, should this be necessary care will be		6
	vegetation regrowth. Minimal surface disturbar		
	tracks where possible, should soil compaction r ensure all ground is returned to existing state.	equire scarification	then the landholder will manage and
	ensure an ground is returned to existing state.		
	Application committment:		
	Should compaction occur of the temporary acce	ess routes, this will l	ikely be scarified after use by the
	landholder. Close consultation with the landhol		5 1 5
	Access restricted to vital personnel and vehicle		•
	Work completed in accordance with requireme Exploration Code of Practice - Environmental M		ion Code of Practice - Rehabilitation, and
Duration	14	anagement.	
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
-			
		required on	
		impacts or	
		impacts or mitigation?	
How resilient is the environment to	High Resilience	impacts or mitigation? What is the	Low
How resilient is the environment to cope with impacts?	High Resilience	impacts or mitigation? What is the level of public	Low
cope with impacts?		impacts or mitigation? What is the level of public concern?	
	High Resilience Uncertain	impacts or mitigation? What is the level of public concern? Ranking of	Low
cope with impacts?		impacts or mitigation? What is the level of public concern? Ranking of potential	
cope with impacts?		impacts or mitigation? What is the level of public concern? Ranking of	Low
cope with impacts? Can the impacts be reversed?	Uncertain	impacts or mitigation? 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?	Uncertain Fully	impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra	Low

Potential impacts	The effects of this small drilling program within soil in this area. Existing tracks will be utilised w		•
	mitigate wind erosion issues.	nere possible. This	area has vegetation hearby which whi
Proposed management controls	There will be no vegetation clearing for this dril	I program Minor cl	earing of grass may be required to make
roposed management controls	sites safe, should this be necessary care will be		
	vegetation regrowth. Minimal surface disturbar		5
	tracks where possible, should soil compaction r		
	ensure all ground is returned to existing state.		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	No
impacts?	5	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	2011
		significance	
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		0
standards, plans, policies?			
Criteria	Noise & Vibration Impacts: Results in increased	noise or vibration	
	•		and a data to a stand to an and the set
Potential impacts	There are no receptors located in the proposed		
		lertaken in daylight hours only and not within 500m of	
	receptors. Mud rotary and diamond drilling met	thod selected has re	elatively low holse outputs compared to
	other drilling methods.	D dillo	and a still be a substant as the day that be a s
Proposed management controls	Drilling will not occur within 500m of sensitive r	eceptors. Drilling w	orks will be undertaken in daylight hour
	only.		
Duration	14		
Application ranking	Negligible		L
What is the confidence in predicting	High	Are further	No
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 for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Noise & Vibration Impacts: Affects sensitive rec	·	
Potential impacts	There are no receptors located in the proposed		
	away from proposed drilling. Drilling will be und	lertaken in daylight	hours only and not within 500m of
	receptors. Mud rotary and diamond drilling me		
	other drilling methods.		
Proposed management controls	Drilling will not occur within 500m of sensitive r	eceptors. Drilling w	orks will be undertaken in daylight hour
	only.		
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	-	studies	
impacts:		required on	
impacts:			
inpacts:		impacts or	
inpacts:			
	High Resilience	mitigation?	Low
How resilient is the environment to	High Resilience	mitigation? What is the	Low
	High Resilience	mitigation? What is the level of public	Low
How resilient is the environment to cope with impacts?		mitigation? What is the level of public concern?	
How resilient is the environment to	High Resilience Yes	mitigation? What is the level of public concern? Ranking of	Low
How resilient is the environment to cope with impacts?		mitigation? What is the level of public concern? Ranking of potential	
How resilient is the environment to cope with impacts?		mitigation? What is the level of public concern? Ranking of	Low

Do the operations comply with standards, plans, policies?	Yes		
Criteria	Coastal Location & Processes: Affects coastal processes of the coastal	ocesses and coastal	hazards, including those under projected
Potential impacts	n/a		
Proposed management controls	n/a		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
	l I	impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?	l I	level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	Low
	l I	potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Hazardous substances or chemicals: Impacts ass	sociated with the us	e, generation, storage or transport of
	hazardous substances or chemicals.		
Potential impacts	Diesel fuel is the only anticipated hydrocarbon t		
	diesel tank mounted on an auxiliary drill vehicle		
	cleaned up and waste material removed from si	te and disposed of	at the nearest appropriately licensed
	waste facility.		
Proposed management controls	Maintain regular checks of all fuel and lubricant the site at all times.	s, provide bunded a	reas where required. A spill kit will be at
Duration	14		
Application ranking	Negligible		
		Are further	Νο
What is the confidence in predicting	High	studies	NO
impacts?		required on	
		impacts or	
	l I	mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	high testilence	level of public	Low
	l I	concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
	l I	significance	
Can the impacts be mitigated?	D	Justification for ra	anking
	Partly		anning
	Yes		anking
Do the operations comply with standards, plans, policies?	· ·		
Do the operations comply with	· ·		
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts to the environmen	nt resulting from the	e generation or disposal of wastes.
Do the operations comply with standards, plans, policies?	Yes	nt resulting from the ment from the prop	e generation or disposal of wastes. osed short drilling program. Fuels
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environm maintained in appropriately bunded storage tar	nt resulting from the nent from the prop ıks. There will be no	e generation or disposal of wastes. osed short drilling program. Fuels odisposal of drilling waste at site – all
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environm	nt resulting from the ment from the prop iks. There will be no propriately licenced	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility.
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app	nt resulting from the ment from the prop iks. There will be no propriately licenced	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility.
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo	nt resulting from the ment from the prop iks. There will be no propriately licenced	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility.
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo	nt resulting from the ment from the prop iks. There will be no propriately licenced	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility.
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo- managed licenced facility.	nt resulting from the ment from the prop aks. There will be no propriately licenced pse of any contamin	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts to the environmen There should be minimal impact to the environm maintained in appropriately bunded storage tan waste removed from site and disposed of at app Clean up any minor spills immediately and dispo managed licenced facility. Application Committments:	nt resulting from the ment from the prop aks. There will be no propriately licenced pse of any contamin	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispor managed licenced facility. Application Committments: All rubbish and drilling equipment removed from	nt resulting from the ment from the prop aks. There will be no propriately licenced pse of any contamin	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	Yes Wastes & Emissions: Impacts to the environmen There should be minimal impact to the environmen maintained in appropriately bunded storage tan waste removed from site and disposed of at app Clean up any minor spills immediately and disport managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14	nt resulting from the ment from the prop aks. There will be no propriately licenced pse of any contamin	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and disport managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible	nt resulting from the ment from the prop aks. There will be no propriately licenced pse of any contamin m site at end of drill	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo- managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible	nt resulting from the ment from the prop aks. There will be no propriately licenced pse of any contamin m site at end of drill Are further	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo- managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible	nt resulting from the ment from the prop aks. There will be no propriately licenced ose of any contamin n site at end of drill Are further studies	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo- managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible	nt resulting from the ment from the prop liks. There will be no propriately licenced propriately licenced se of any contamin n site at end of drill Are further studies required on	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo- managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible	nt resulting from the ment from the prop liks. There will be no propriately licenced propriately licenced see of any contamin n site at end of drill Are further studies required on impacts or	e generation or disposal of wastes. osed short drilling program. Fuels o disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Yes Wastes & Emissions: Impacts to the environment There should be minimal impact to the environment maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible High	nt resulting from the ment from the prop liks. There will be no propriately licenced propriately licenced see of any contamin n site at end of drill Are further studies required on impacts or mitigation?	e generation or disposal of wastes. osed short drilling program. Fuels disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
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	Yes Wastes & Emissions: Impacts to the environment There should be minimal impact to the environment maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible High	nt resulting from the ment from the prop liks. There will be no propriately licenced propriately licenced see of any contamin m site at end of drill Are further studies required on impacts or mitigation? What is the	e generation or disposal of wastes. osed short drilling program. Fuels disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
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	Yes Wastes & Emissions: Impacts to the environment There should be minimal impact to the environment maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible High	nt resulting from the ment from the prop liks. There will be no propriately licenced propriately licenced see of any contamin m site at end of drill Are further studies required on impacts or mitigation? What is the level of public	e generation or disposal of wastes. osed short drilling program. Fuels disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
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 cope with impacts?	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo- managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible High	nt resulting from the ment from the prop lks. There will be no propriately licenced propriately licenced see of any contamin n site at end of drill Are further studies required on impacts or mitigation? What is the level of public concern?	e generation or disposal of wastes. osed short drilling program. Fuels disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.
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 cope with impacts?	Yes Wastes & Emissions: Impacts to the environmer There should be minimal impact to the environmer maintained in appropriately bunded storage tar waste removed from site and disposed of at app Clean up any minor spills immediately and dispo- managed licenced facility. Application Committments: All rubbish and drilling equipment removed from 14 Negligible High	nt resulting from the ment from the prop lks. There will be no propriately licenced propriately licenced see of any contamin n site at end of drill Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	e generation or disposal of wastes. osed short drilling program. Fuels disposal of drilling waste at site – all waste facility. ated materials to an appropriately ing program.

Do the operations comply with	Yes	<u> </u>	
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on drinking water	catchments, wetlar	nds, natural water bodies, riparian zones
	or flood prone areas.		
Potential impacts	There will be no impact to the Macquarie Marsh	nes Wetlands during	g this proposed short drilling program.
Dronocod management controls	Drilling to be conducted in the dry season. Clean up any minor spills immediately and dispo		acted materials to an appropriately
Proposed management controls	managed licenced facility.		
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
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?	Uncertain	Ranking of potential	Low
		significance	
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with	Yes		B
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on groundwater r	echarge areas or are	eas with high water table.
Potential impacts	There will be no impact to the Macquarie Marsl	-	
	Drilling to be conducted in the dry season.		2 F F
Proposed management controls	Clean up any minor spills immediately and dispo	ose of any contamin	nated materials to an appropriately
	managed licenced facility.		
	Proposed area is outside mapped locations of G	roundwater vulner	ability (Available via geo.seed.nsw.gov.au
Duration	14		
Application ranking	Negligible		T
What is the confidence in predicting	High	Are further	No
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	2011
		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes and Emissions: Impacts on coastlines or	dunes, alpine areas	s, karst features or other unique
Potential impacts	landforms. N/A		
	N/A		
Proposed management controls Duration	N/A N/A		
Application ranking	N/A N/A		
What is the confidence in predicting	N/A N/A	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	N/A
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	N/A		
standards, plans, policies?		I	
Critoria	Waster & Emissioner Impacts and and and		
Criteria Potential impacts	Wastes & Emissions: Impacts on erosion prone N/A	areas, areas with slo	opes of greater than 18 degrees.

Proposed management controls	N/A		
	Drevened area is relatively flat		
Duration	Proposed area is relatively flat.		
Application ranking	N/A N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?	N/A	studies	NA
impacts.		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	N/A
cope with impacts?		level of public	
cope with impacts.		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	N/A	Justineation for it	
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on subsidence or	l slin areas	
	There will be no impact to the Macquarie Marsh	•	this proposed short drilling program
Potential impacts	Drilling to be conducted in the dry season.		s and proposed short drilling program.
Proposed management controls	Clean up any minor spills immediately and dispo	nse of any contamin	ated materials to an appropriately
rioposeu management controis	managed licenced facility.	use of any containin	area marenais to an appropriately
	manageu licenceu facility.		
	Area is not in a known subsidence or slip area.	Proposed location is	relatively flat with drill belos to be
	cemented when rehabilitated.	roposeu location is	relatively flat, with drift floles to be
Duration	14		
	Negligible		
Application ranking What is the confidence in predicting		Are further	Νο
	High	studies	NO
impacts?			
		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	
A 1 1 1 1 1 1 1 1 1 1	5 U	significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on areas with acid	l sulphate, sodic or l	highly permeable soils.
Potential impacts			
Proposed management controls	No mapped area of acid sulphate in proposed lo	ocations.	
Proposed management controls	No mapped area of acid sulphate in proposed lo	ocations.	
Proposed management controls Duration	No mapped area of acid sulphate in proposed lo	ocations.	
Duration Application ranking		ocations.	
		Are further	No
Duration Application ranking	14		No
Duration Application ranking What is the confidence in predicting	14	Are further	No
Duration Application ranking What is the confidence in predicting	14	Are further studies	No
Duration Application ranking What is the confidence in predicting	14	Are further studies required on	No
Duration Application ranking What is the confidence in predicting	14	Are further studies required on impacts or	No
Duration Application ranking What is the confidence in predicting impacts?	14 High	Are further studies required on impacts or mitigation?	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	14 High	Are further studies required on impacts or mitigation? What is the	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	14 High	Are further studies required on impacts or mitigation? What is the level of public concern?	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	14 High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	Low
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	14 High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	Low
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	14 High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Low
Duration 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?	14 High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	Low
Duration 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	14 High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Low
Duration 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?	14 High Yes Fully Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	Low
Duration 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	14 High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra	Low Low anking nity problems.

Proposed management controls	Clean up any minor spills immediately and disp managed licenced facility.	ose of any contamin	ated materials to an appropriately
	Search of espade - soil landscapes completed. Application committment to manage saline gro utilised to retain groundwater within strata. Dri	undwater or potent	ial salinity issues with drilling methods
Duration	14	innoles to be cernen	ted. No anchary water required.
Application ranking	Negligible		
		A un frontle au	No
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?	Medium 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?	Partly	Justification for r	anking
Do the operations comply with	Yes		5
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on areas with deg	I raded or contamina	ted land
	-		
Potential impacts	There will be no impact to the Macquarie Mars Drilling to be conducted in the dry season.		
Proposed management controls	Clean up any minor spills immediately and disp managed licenced facility.	ose of any contamin	ated materials to an appropriately
	No ancillary water required. Bio-degradable drilling muds to be utilised with Drilling in dry times, no drilling in times of wet o		g.
Duration	14	conditions.	
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
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 for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with deg	raded or contamina	ted water (ground or surface).
Potential impacts	There will be no impact to the Macquarie Mars		,
	Drilling to be conducted in the dry season.		5 F F F F F F F F F F F F F F F F F F F
Proposed management controls	Clean up any minor spills immediately and disponent of the spin spills in the spin spills in the spin spin spin spin spin spin spin spin	ose of any contamin	ated materials to an appropriately
	No ancillary water required. Bio-degradable drilling muds to be utilised with Drilling in dry times, no drilling in times of wet o		g.
Duration	14	conditions.	
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	ingn	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?	Uncertain	Ranking of	Low
can the impacts be reversed?	Uncertain	potential	

Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?		 	and the second state of th
Criteria	Vegetation: Any clearing or modification of veg		npacts on wildlife corridors, remnant
Detential increases	vegetation & habitat for species of conservation		
Potential impacts	There will be no vegetation clearing for the pro		d della e serve e Bieller
D	There are no threatened flora species recorded	within the propose	d drilling area on BioNet.
Proposed management controls	n/a		
	December of the set of		
	Proposed locations of drilling show grassland w		trees.
	The area is open grazing land with sparse veget		
	If clearing of grass required, care will be taken t	o ensure to leave ro	oot stock to enable existing vegetation
Duration	regrowth. 14		
Application ranking	Positive	A up fourth ou	Na
What is the confidence in predicting	High	Are further	No
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 ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Threatened Fauna Species: Any adverse effect of	on the life cycle of a	ny threatened species such that a viable
cificilia			
cincina	local population of the species is likely to be pla	ced at risk of extinc	tion.
Potential impacts			
	local population of the species is likely to be pla		
	local population of the species is likely to be pla There is one sighting of Australian Bustard (NSV		
Potential impacts	local population of the species is likely to be pla There is one sighting of Australian Bustard (NSV in this area		
Potential impacts	local population of the species is likely to be pla There is one sighting of Australian Bustard (NSV in this area n/a		
Potential impacts	local population of the species is likely to be pla There is one sighting of Australian Bustard (NSV in this area n/a No removal of vegetation.	V E1). There are no	
Potential impacts	local population of the species is likely to be pla There is one sighting of Australian Bustard (NSV in this area n/a No removal of vegetation. Status of Australian Bustard is of Least Concern	V E1). There are no	other threatened fauna or flora recorde
Potential impacts Proposed management controls	local population of the species is likely to be pla There is one sighting of Australian Bustard (NSV in this area n/a No removal of vegetation. Status of Australian Bustard is of Least Concern While within greater area proposed, is not close	V E1). There are no	other threatened fauna or flora recorde
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Potential impacts Proposed management controls Duration Application ranking	local population of the species is likely to be pla There is one sighting of Australian Bustard (NSV in this area n/a No removal of vegetation. Status of Australian Bustard is of Least Concern While within greater area proposed, is not close 14 Positive	V E1). There are no e to proposed locati	other threatened fauna or flora recorder on within the proposed drilling area.
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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	
	5	significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Areas of outstanding biodiversity value/Critical		
	biodiversity value under the Biodiversity Conser	vation Act 2016 b	. areas declared critical habitat under th
	Fisheries Management Act 1994.		
Potential impacts	There are no areas of critical habitat/area of ou	tstanding biodiversi	ty within the approval area.
Proposed management controls	n/a		
	No areas of outstanding biodiversity value/Critic	cal babitat within pr	conosod locations
Duration	14	cai nabitat within pi	oposed locations.
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	1161	studies	140
		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	Low
	,	potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
can the impacts be initigated:			
Do the operations comply with standards, plans, policies?	Yes Endangered ecological community or critically e is likely to have an adverse effect on th		al community: Whether the activity: 🛽
Do the operations comply with standards, plans, policies?	Yes Endangered ecological community or critically e is likely to have an adverse effect on th occurrence is likely to be placed at risk of extinc modify the composition of the ecological comm	e extent of the ecol tion, or 🛛 i	cal community: Whether the activity: logical community such that its local s likely to substantially and adversely
Do the operations comply with standards, plans, policies? Criteria	Yes Endangered ecological community or critically e is likely to have an adverse effect on th occurrence is likely to be placed at risk of extinc modify the composition of the ecological comm risk of extinction.	e extent of the ecol tion, or 2 i unity such that its lo	cal community: Whether the activity: logical community such that its local s likely to substantially and adversely ocal occurrence is likely to be placed at
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What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
	NA		LOW
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Habitat of protected aquatic species or those w	ith conservation sta	tus.
Detential imposts			
Potential impacts	There are no critically endangered species or co		
Proposed management controls	n/a - There are no critically endangered species	or communities rec	orded within the proposed drilling area
Duration	14		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
pacts.		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	Low
·		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
can the impacts be mitigated?	I N/A	Justification for ra	anking
Do the operations comply with	Yes		
Do the operations comply with standards, plans, policies?	Yes		
Do the operations comply with		dule 4 of Biodiversit	y Conservation Act 2016. Includes: a.
Do the operations comply with standards, plans, policies?	Yes		
Do the operations comply with standards, plans, policies?	Yes Key Threatening Processes: As outlined in Sched	abitat and native ve	getation b. loss of hollow bearing tree
Do the operations comply with standards, plans, policies? Criteria	Yes Key Threatening Processes: As outlined in Sched alteration, removal, clearly or degradation of ha c. removal of dead wood and dead trees d. inv	abitat and native veg vasion and establish	getation b. loss of hollow bearing tree ment of exotic species.
Do the operations comply with standards, plans, policies?	Yes Key Threatening Processes: As outlined in Sched alteration, removal, clearly or degradation of ha c. removal of dead wood and dead trees d. inv There is one sighting of Australian Bustard (E1)	abitat and native veg vasion and establish and no critically end	getation b. loss of hollow bearing tree ment of exotic species. langered species. The small drilling
Do the operations comply with standards, plans, policies? Criteria	Yes Key Threatening Processes: As outlined in Sched alteration, removal, clearly or degradation of ha c. removal of dead wood and dead trees d. inv There is one sighting of Australian Bustard (E1) program does not require vegetation clearance	abitat and native veg vasion and establish and no critically end . Minor areas of dist	getation b. loss of hollow bearing tree ment of exotic species. langered species. The small drilling
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Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	Yes Key Threatening Processes: As outlined in Scher alteration, removal, clearly or degradation of ha c. removal of dead wood and dead trees d. inv There is one sighting of Australian Bustard (E1) program does not require vegetation clearance couple of months and so minimal impact is envi Drill site locations are determined based on are undertaken as soon as is reasonably practicable application.	abitat and native veg vasion and establish and no critically end . Minor areas of dist isaged. a of least impact to	setation b. loss of hollow bearing tree ment of exotic species. langered species. The small drilling surbance will be rehabilitated within a the environment. Rehabilitation will be
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What is the confidence in predicting	High	Are further	No
impacts?	5	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 ra	anking
Do the operations comply with	Yes	Justification for fa	anking
	res		
standards, plans, policies?		 	
Criteria	Ecological & Biosecurity Impacts: Any threat to	the biological divers	sity or ecological integrity of an ecological
	community.		
Potential impacts	No impact envisaged		
Proposed management controls	n/a		
Duration	14		
Application ranking	Negligible		
		Ana fronth an	No
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
	Then resilience	level of public	LOW
cope with impacts?			
		concern?	
Can the impacts be reversed?	N/A	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	N/A	-	anking
Can the impacts be mitigated?	N/A Vec	Justification for ra	anking
Do the operations comply with	N/A Yes	-	anking
Do the operations comply with standards, plans, policies?	Yes	Justification for ra	
Do the operations comply with	Yes Ecological & Biosecurity Impacts: Creates a bios	Justification for ra	duces genetically modified organisms into
Do the operations comply with standards, plans, policies?	Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction	Justification for ra ecurity risk or intro of: a. mobilisatio	duces genetically modified organisms into n of pollutants b. animal pests, c. plar
Do the operations comply with standards, plans, policies? Criteria	Yes Ecological & Biosecurity Impacts: Creates a bios	Justification for ra ecurity risk or intro of: a. mobilisatio	duces genetically modified organisms into n of pollutants b. animal pests, c. plar
Do the operations comply with standards, plans, policies?	Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction	Justification for ra ecurity risk or intro of: a. mobilisatio	duces genetically modified organisms into n of pollutants b. animal pests, c. plar
Do the operations comply with standards, plans, policies? Criteria	Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction pests and diseases, d. animal diseases, e. no	Justification for ra ecurity risk or intro of: a. mobilisatio	duces genetically modified organisms into n of pollutants b. animal pests, c. plar
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Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction pests and diseases, d. animal diseases, e. no No impact envisaged n/a	Justification for ra ecurity risk or introo of: a. mobilisatio exious weeds, or f.	duces genetically modified organisms into n of pollutants b. animal pests, c. plar genetically modified organisms.
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Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction pests and diseases, d. animal diseases, e. no No impact envisaged n/a Agricultural Impact Statement supplied with ap prior to property entry to minimise impacts on on the property will be confirmed with the land these areas will be avoided to prevent any spres 14 Negligible	Justification for ra ecurity risk or introd of: a. mobilisatio exious weeds, or f. plication: all vehicle agricultural resource holder prior to the ad. Are further studies required on	duces genetically modified organisms into on of pollutants b. animal pests, c. plar genetically modified organisms. s will undergo weed and seed cleaning es, The location of any weed populations commencement of the program, and
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What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	0	level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
P P		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Community Resources: Any degradation of infra	astructure or signific	ant increase in the demand for services
	and infrastructure resources.	0	
Potential impacts	There will be no impact to the demand or use o	f local services and	resources for this drill program
Proposed management controls	Not applicable.		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	Νο
1 0	i ligit	studies	NO
impacts?			
		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		anking
Can the impacts be mitigated? Do the operations comply with	Fully Yes	significance	anking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Yes	significance Justification for ra	
Can the impacts be mitigated? Do the operations comply with	*	significance Justification for ra	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Community Resources: Any diversion of resources No diversion of resources required	significance Justification for ra	of other communities or natural systems.
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Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Natural Resources: Any disruption of existing a	 tivities which roly a	n natural resources including forestry
criteria	farming or extractive industries (or reduction or		
Potential impacts	The proposed program will be undertaken at a		
	existing activities. The drill hole is to be collared		
Proposed management controls	Work will be undertaken in the dry season and	not during extreme	weather events.
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	right testilence	level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Natural Resources: Any use which results in the		
Potential impacts	The Macquarie Marshes Wetlands are identifie	d in the Warren Loc	al Environmental Plan 2012. The low
	impact nature of the drilling and small footprin		0
	exploration drilling is not declared as designate		
Proposed management controls	Work will be undertaken in the dry season and	not during extreme	weather events.
Duration	14		
Duration	14 Nogligible		
Application ranking What is the confidence in predicting	Negligible High	Are further	No
impacts?	ingn	studies	
impacts.		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 r	anking
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Sensitive Land Impacts: Impacts on National pa	ks and other areas	received or dedicated or acquired unde
entella	the National Parks and Wildlife Act 1974.	iks and other dreas	reserved of dedicated of acquired unde
Potential impacts	N/A		
Proposed management controls	N/A		
	Activity will not be carried out in National Parks	or area listed unde	r National Parks and Wildlife Act 1974.
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	N/A
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
		potential	
Con the immediate by writing 12	N/A	significance	anking
Can the impacts be mitigated?	N/A N/A	Justification for r	anking
		1	
Do the operations comply with standards, plans, policies?			

Criteria	Sensitive Land Impacts: Land subject to a 'conse	ervation agreement	under the National Parks and Wildlife A
	1974 and/or the Biodiversity Conservation Act	•	
	under the now repealed Threatened Species Co		000
	agreement established under the Biodiversity C		· · · ·
			0 0
	established under the Biodiversity Conservation		0
	continue to have effect even where legislation		-
	now repealed Nature Conservation Trust Act 20	01 🛛 Property ve	getation plans made under the now-
	repealed Native Vegetation Act 2003 2 Rep	gistered property ag	reements under the repealed Native
	Vegetation Conservation Act 1997		
Potential impacts	N/A		
Proposed management controls	N/A		
roposed management controls			
	Activity not being corried out in any land subje	et to a leanconvotion	agreement' under the National Darks or
	Activity not being carried out in any land subje		agreement under the National Parks ar
	Wildlife Act 1974 and/or the Biodiversity Conse	rvation Act 2016	
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?		studies	,
impacts.		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	N/A
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
can the impacts be reversed?	N/A		N/A
		potential	
		significance	
		Justification for ra	anking
Can the impacts be mitigated?	N/A		
Can the impacts be mitigated? Do the operations comply with	N/A N/A		
Do the operations comply with			
Do the operations comply with standards, plans, policies?	N/A		ks declared under the Marine Estate
Do the operations comply with	N/A Sensitive Land Impacts: Impacts on aquatic rese	erves or marine parl	
Do the operations comply with standards, plans, policies? Criteria	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon	erves or marine parl	
Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A	erves or marine parl	
Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon	erves or marine parl	
Do the operations comply with standards, plans, policies? Criteria	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a	erves or marine parl e as defined in the C equatic reserves or	Coastal Management Act 2016. marine parks declared under the Marine
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone	erves or marine parl e as defined in the C equatic reserves or	Coastal Management Act 2016. marine parks declared under the Marine
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A	erves or marine parl e as defined in the C equatic reserves or	Coastal Management Act 2016. marine parks declared under the Marine
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A	erves or marine parl e as defined in the C aquatic reserves or f as defined in the Co	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A	erves or marine parl e as defined in the C aquatic reserves or as defined in the Co Are further	Coastal Management Act 2016. marine parks declared under the Marine
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A	erves or marine parl e as defined in the C aquatic reserves or f as defined in the Co	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A	erves or marine parl e as defined in the C aquatic reserves or as defined in the Co Are further	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A	erves or marine parl e as defined in the C aquatic reserves or a as defined in the Co Are further studies required on	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A	erves or marine parl e as defined in the C aquatic reserves or as defined in the Co Are further studies required on impacts or	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone in N/A N/A N/A	erves or marine parl e as defined in the C aquatic reserves or r as defined in the Co Are further studies required on impacts or mitigation?	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016. N/A
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	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A	erves or marine parl e as defined in the C aquatic reserves or a as defined in the Co Are further studies required on impacts or mitigation? What is the	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016.
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone in N/A N/A N/A	erves or marine part e as defined in the C aquatic reserves or t as defined in the Co Are further studies required on impacts or mitigation? What is the level of public	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016. N/A
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	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone in N/A N/A N/A	erves or marine parl e as defined in the C aquatic reserves or a as defined in the Co Are further studies required on impacts or mitigation? What is the	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016. N/A
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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 cope with impacts?	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A N/A N/A	erves or marine parl e as defined in the C as defined in the Co as defined in the Co Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016. N/A
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 cope with impacts? Can the impacts be reversed?	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone a N/A N/A N/A N/A	erves or marine parl e as defined in the C as defined in the Co as defined in the Co Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016. N/A N/A
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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 cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone of N/A Sensitive Land Impacts: Fishing grounds and con The Ma	erves or marine part e as defined in the C as defined in the Co as defined in the Co Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra mercial fish breed d in the Warren Loca t will not result in th d development in th not during extreme Are further studies required on	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016. N/A N/A N/A ing or nursery areas. al Environmental Plan 2012. The low e degradation of the Wetlands. Mineral the Warren LEP. weather events.
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 cope with impacts? Can the impacts be reversed? 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	N/A Sensitive Land Impacts: Impacts on aquatic rese Management Act 2014. Impacts on Coastal Zon N/A N/A Activity is not being carried out on land that is a Estate Management Act 2014, or Coastal Zone of N/A Sensitive Land Impacts: Fishing grounds and con The Ma	erves or marine part e as defined in the Context as defined in the Context as defined in the Context Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rand d in the Warren Loca t will not result in the d development in the not during extreme Are further studies	Coastal Management Act 2016. marine parks declared under the Marine astal Management Act 2016. N/A N/A N/A ing or nursery areas. al Environmental Plan 2012. The low e degradation of the Wetlands. Mineral the Warren LEP. weather events.

	T		
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	
Con the imports he mitigated?	Fully		aukina.
Can the impacts be mitigated?	Fully	Justification for ra	апкіпg
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on other sensit	•	
	under the Forestry Act 2012 for conservation va	lues. This includes f	flora reserves and special management
	(and other) zones. b. Drinking water catchmer	nt protection areas -	land declared to be a 'controlled area'
	a 'special area' under the Water NSW Act 2014,	or a 'special area' u	nder the Water Management Act 2000
	Hunter Water Act 1991. c. Waterfront land as		-
Potential impacts	The Macquarie Marshes Wetlands are identified		
•••••	impact nature of the drilling and small footprint		
	exploration drilling is not declared as designated		-
Dronocod management controls			
Proposed management controls	Work will be undertaken in the dry season and	not during extreme	weather events.
	No drilling within 200m of Milimland Creek - Clo	osest waterway to p	roposed drilling location.
	Swamplands avoided.		
	Drilling is not occuring in State Forest.		
	Drilling is not occuring within Drinking water car	tchment protection	area.
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
	1161		140
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	5	level of public	-
cope minimpacto.		concern?	
Con the impacts he reversed?	Yes		Low
Can the impacts be reversed?	res	Ranking of	LOW
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on land reserve	d or dedicated with	in the meaning of the Crown Lands Act
	1989/Crown Lands Management Act 2016 for p	reservation of the e	nvironment or other environmental
	protection purposes.		
Potential impacts	N/A		
•			
Proposed management controls	N/A		
	Drilling is not occurring in Crown Land Reserves		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?			
		studies	1
		required on	
		required on impacts or	
		required on impacts or mitigation?	
How resilient is the environment to	N/A	required on impacts or	N/A
	N/A	required on impacts or mitigation?	N/A
How resilient is the environment to	N/A	required on impacts or mitigation? What is the	N/A
How resilient is the environment to cope with impacts?		required on impacts or mitigation? What is the level of public concern?	
How resilient is the environment to	N/A N/A	required on impacts or mitigation? What is the level of public concern? Ranking of	N/A N/A
How resilient is the environment to cope with impacts?		required on impacts or mitigation? What is the level of public concern? Ranking of potential	
How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	N/A
How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	N/A N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential	N/A
How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	N/A
How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	N/A N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	N/A
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?	N/A N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	N/A anking
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?	N/A N/A N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	N/A anking
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	N/A N/A N/A Sensitive Land Impacts: Impacts on land identifi Wilderness Act 1987.	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	N/A anking
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	N/A N/A Sensitive Land Impacts: Impacts on land identifi Wilderness Act 1987. N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	N/A anking
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	N/A N/A N/A Sensitive Land Impacts: Impacts on land identifi Wilderness Act 1987.	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	N/A anking
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	N/A N/A N/A Sensitive Land Impacts: Impacts on land identifi Wilderness Act 1987. N/A N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	N/A anking declared a wilderness area under the
How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	N/A N/A Sensitive Land Impacts: Impacts on land identifi Wilderness Act 1987. N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	N/A anking declared a wilderness area under the

Application ranking	N/A	1	
What is the confidence in predicting	N/A	Are further	N/A
impacts?		studies	
-		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	N/A
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Lands: Impacts on wetlands of interna	tional significance o	lesignated under the Ramsar Convention
	on Wetlands and those designated as a nationa	-	-
		iny important wetiai	in the birectory of important wetlan
	of Australia.		
Potential impacts	N/A		
Proposed management controls	N/A		
			hand Matland in the Divertery of
	Activity is proposed to occur on land identified		-
	Important Wetlands of Australia, and on the Ma	acquarie Marshes W	etland under the Warren Local
	Environmental Plan 2012 (EPI zoned)		
	There are areas of swampland which are sensiti	ve and will be avoid	ed, in addition. work will be conducted
	the dry season and not during wet conditions.		
		Sun ali	
	Drilling not to occur within 200m of Milmiland (
	RAMSAR Wetland Macquarie Marshes is to the	East of the propose	d drilling area and will not be impacted
	activity.		
Duration	N/A		
Application ranking	N/A		
		Ann fronth an	No
What is the confidence in predicting	High	Are further	No
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?	Uncertain	Ranking of	Low
can the impacts be reversed:	Sheertain		LOW
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on land identifi		
Criteria	Sensitive Land Impacts: Impacts on land identifi biodiversity / conservation significance or zoned		
Criteria	biodiversity / conservation significance or zone	for environmental	conservation, protection and/or
Criteria	biodiversity / conservation significance or zoneo management. Includes Coastal Wetlands and Li	for environmental	conservation, protection and/or
	biodiversity / conservation significance or zoneo management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.	for environmental	conservation, protection and/or
Potential impacts	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A	for environmental	conservation, protection and/or
Potential impacts	biodiversity / conservation significance or zoneo management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.	for environmental	conservation, protection and/or
Criteria Potential impacts Proposed management controls	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A	for environmental	conservation, protection and/or
Potential impacts	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A	l for environmental ttoral rainforests ur	conservation, protection and/or der State Environmental Planning Policy
Potential impacts	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed under	l for environmental ttoral rainforests ur r State Environment	conservation, protection and/or der State Environmental Planning Policy ral Planning Policy (Resilience and
Potential impacts	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed under Hazards) 2021, or identified in an environmenta	l for environmental ttoral rainforests ur r State Environment I planning instrume	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and nt as being of biodiversity / conservation
Potential impacts Proposed management controls	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv	l for environmental ttoral rainforests ur r State Environment I planning instrume	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and nt as being of biodiversity / conservation
Potential impacts Proposed management controls	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A	l for environmental ttoral rainforests ur r State Environment I planning instrume	conservation, protection and/or der State Environmental Planning Policy ral Planning Policy (Resilience and nt as being of biodiversity / conservatio
Potential impacts Proposed management controls Duration	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv	l for environmental ttoral rainforests ur r State Environment I planning instrume	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and nt as being of biodiversity / conservation
Potential impacts Proposed management controls Duration Application ranking	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A	d for environmental ttoral rainforests ur r State Environment Il planning instrume ration, protection a	conservation, protection and/or der State Environmental Planning Policy tal Planning Policy (Resilience and nt as being of biodiversity / conservatio nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A	d for environmental ttoral rainforests ur r State Environment Il planning instrume ration, protection a Are further	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and nt as being of biodiversity / conservation
Potential impacts Proposed management controls Duration Application ranking	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A	d for environmental ttoral rainforests ur r State Environment Il planning instrume ration, protection a Are further studies	conservation, protection and/or der State Environmental Planning Police tal Planning Policy (Resilience and nt as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A	d for environmental ttoral rainforests ur r State Environment Il planning instrume ration, protection a Are further	conservation, protection and/or der State Environmental Planning Police tal Planning Policy (Resilience and nt as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A	d for environmental ttoral rainforests ur r State Environment Il planning instrume ration, protection a Are further studies	conservation, protection and/or der State Environmental Planning Police tal Planning Policy (Resilience and nt as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A	d for environmental ttoral rainforests ur r State Environmental Il planning instrume ration, protection a Are further studies required on impacts or	conservation, protection and/or der State Environmental Planning Police tal Planning Policy (Resilience and nt as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A High	d for environmental ttoral rainforests ur r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation?	conservation, protection and/or der State Environmental Planning Polic cal Planning Policy (Resilience and int as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A	d for environmental ttoral rainforests un r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation? What is the	conservation, protection and/or der State Environmental Planning Police tal Planning Policy (Resilience and nt as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A High	d for environmental ttoral rainforests ur r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation?	conservation, protection and/or der State Environmental Planning Policy cal Planning Policy (Resilience and nt as being of biodiversity / conservatio nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A High	d for environmental ttoral rainforests un r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation? What is the	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and nt as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A High High Resilience	d for environmental ttoral rainforests un r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation? What is the level of public concern?	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and int as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A High	d for environmental ttoral rainforests un r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and nt as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A High High Resilience	d for environmental ttoral rainforests un r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and int as being of biodiversity / conservation nd/or management.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	biodiversity / conservation significance or zoned management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021. N/A N/A Drilling will not be occuring in areas listed unde Hazards) 2021, or identified in an environmenta significance or zoned for environmental conserv N/A N/A High High Resilience	d for environmental ttoral rainforests un r State Environmental I planning instrume vation, protection a Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	conservation, protection and/or der State Environmental Planning Police cal Planning Policy (Resilience and int as being of biodiversity / conservation nd/or management.

Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on Aboriginal h under the National Parks and Wildlife Act 1974		
	environmental planning instrument.	D. Areas of Aborig	inal cultural significance identified in an
Potential impacts	N/A		
Proposed management controls	N/A		
· · · · · · · · · · · · · · · · · · ·			
	Drilling is not occuring in Aboriginal heritage pro	otected areas.	
Duration	N/A		
Application ranking	N/A		r
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	5	level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
	5 11	significance	
Can the impacts be mitigated? Do the operations comply with	Fully Yes	Justification for ra	апкіпд
standards, plans, policies?	res		
Criteria	Sensitive Land Impacts: Impacts on heritage pro	l otection areas (histo	ric or natural): a. Nationally and
	internationally recognised heritage sites or area		
	Commonwealth Heritage List) b. Items listed o		
	identified in an environmental planning instrum	ient	
Potential impacts	N/A		
Proposed management controls	N/A		
	Drilling is not accurring in props of horitage prot	taction (historic or r	antural)
Duration	Drilling is not occurring in areas of heritage prot N/A		
Application ranking	N/A		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
How resilient is the environment to	High Resilience	mitigation? What is the	Low
cope with impacts?	ngrittesmence	level of public	Low
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Sensitive Land Impacts: Impacts on community	 land classified unde	r the Local Government Act 1993 (for
entena	which a plan of management has been prepared		The Local Government Act 1999 (10)
Potential impacts	N/A		
Proposed management controls	N/A		
	Area of proposed drilling is not occurring on lan	d classified as comr	nunity land under the Local Government
- Deville	Act 1993		
Duration Application ranking	N/A N/A		
What is the confidence in predicting	High	Are further	No
impacts?	ing.	studies	
•••••••		required on	
		impacts or	
		inipacts of	
		mitigation?	
How resilient is the environment to	N/A	mitigation? What is the	Low
How resilient is the environment to cope with impacts?	N/A	mitigation? What is the level of public	Low
cope with impacts?		mitigation? What is the level of public concern?	
	N/A N/A	mitigation? What is the level of public concern? Ranking of	Low
cope with impacts?		mitigation? What is the level of public concern?	

Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Sonsitive Land Impacts: Impacts on hushfire pro	no props	
Potential impacts	Sensitive Land Impacts: Impacts on bushfire pro The Macquarie Marshes Wetlands are identified		al Environmental Plan 2012 The low
Potential impacts	impact nature of the drilling and small footprint		
	exploration drilling is not declared as designated		0
Proposed management controls	Work will be undertaken in the dry season and		
		5	
	Application submitted management control for	bushfire - Bushfire -	- chances of a bushfire are considered
	minimal but will be mitigated through a policy of		wed at active sites and RFS sites will be
	monitored and works undertaken according to	fire risk ratings.	
Duration	14		
Application ranking	Negligible	Aug fourth ou	N-
What is the confidence in predicting impacts?	High	Are further studies	No
Impacts:		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 ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Social Impacts: Any impacts which result in a ch	ange in the demogr	applic structure of the community
	Social impacts. Any impacts which result in a ch	ange in the demogr	aprile structure of the community,
Citteria			gion Including change in demand for
Citteria	including changes to workforce or industry strue	cture of the area/re	
	including changes to workforce or industry struction community resources (eg community facilities,	cture of the area/re community services	and labour force).
Potential impacts	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe	cture of the area/re community services ct the demographic	and labour force). s of the local communities
	including changes to workforce or industry struction community resources (eg community facilities,	cture of the area/re community services ct the demographic previous explorers	and labour force). as of the local communities for many years. Community consultation
Potential impacts	including changes to workforce or industry stru- community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by	cture of the area/re community services ct the demographic previous explorers d the community. A	and labour force). as of the local communities for many years. Community consultation regular flow of information will be
Potential impacts	including changes to workforce or industry struct community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14	cture of the area/re community services ct the demographic previous explorers d the community. A	and labour force). as of the local communities for many years. Community consultation regular flow of information will be
Potential impacts Proposed management controls Duration Application ranking	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu	and labour force). is of the local communities for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	including changes to workforce or industry struct community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further	and labour force). as of the local communities for many years. Community consultation regular flow of information will be
Potential impacts Proposed management controls Duration Application ranking	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies	and labour force). is of the local communities for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on	and labour force). is of the local communities for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or	and labour force). is of the local communities for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation?	and labour force). as of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the	and labour force). is of the local communities for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public	and labour force). as of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the	and labour force). as of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern?	and labour force). so of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	and labour force). so of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	and labour force). s of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low
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Potential impacts Proposed management controls Duration 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?	including changes to workforce or industry struc community resources (eg community facilities, of The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	and labour force). s of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low
Potential impacts Proposed management controls Duration 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	including changes to workforce or industry structor community resources (eg community facilities, of The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Social Impacts: Any environmental impact that	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra	and labour force). s of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low
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Potential impacts Proposed management controls Duration 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	including changes to workforce or industry struc community resources (eg community facilities, The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High High Resilience Yes Fully Yes Social Impacts: Any environmental impact that (including loss of facilities or loss of community There will be no impact or change to the comm	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra may cause substant identity).	and labour force). s of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low Low ial change or disruption to the community proposed drilling program
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Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	including changes to workforce or industry struc community resources (eg community facilities, i The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High High Resilience Yes Social Impacts: Any environmental impact that (including loss of facilities or loss of community There will be no impact or change to the comm Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra may cause substant identity). unity following the previous explorers d the community. A nmediately. No issu Are further studies	and labour force). as of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low Low anking ial change or disruption to the community proposed drilling program for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	including changes to workforce or industry struc community resources (eg community facilities, i The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High High Resilience Yes Social Impacts: Any environmental impact that (including loss of facilities or loss of community There will be no impact or change to the comm Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra may cause substant identity). unity following the previous explorers d the community. A nmediately. No issu Are further studies required on	and labour force). as of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low Low anking ial change or disruption to the community proposed drilling program for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	including changes to workforce or industry struc community resources (eg community facilities, i The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High High Resilience Yes Social Impacts: Any environmental impact that (including loss of facilities or loss of community There will be no impact or change to the comm Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A mediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra may cause substant identity). unity following the previous explorers d the community. A mediately. No issu Are further studies required on impacts or	and labour force). as of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low Low anking ial change or disruption to the community proposed drilling program for many years. Community consultation regular flow of information will be es have been raised to date.
Potential impacts Proposed management controls Duration 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 Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	including changes to workforce or industry struc community resources (eg community facilities, of The proposed program is small and will not affe Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Social Impacts: Any environmental impact that to (including loss of facilities or loss of community) There will be no impact or change to the comm Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	cture of the area/re community services ct the demographic previous explorers d the community. A mediately. No issu Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra may cause substant identity). unity following the previous explorers d the community. A neediately. No issu Are further studies required on impacts or mitigation?	and labour force). as of the local communities for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low Low anking ial change or disruption to the community proposed drilling program for many years. Community consultation regular flow of information will be es have been raised to date. No No No No No No No N

	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Social Impacts: Any impacts which result in some individuals or communities being significantly disadvantaged (e.g. change to community facilities, services or labour force).		
Potential impacts	The small program will not disadvantage the community or individuals in the area		
Proposed management controls	Exploration has been undertaken in this area by previous explorers for many years. Community consult has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on	No
		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 potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		~
standards, plans, policies? Criteria	Social Impacts: Any impacts on the health, safet	ty, privacy or welfar	e of individuals or communities caused b
	factors such as pollution, odour, noise, vibration	n, lighting, visual im	pacts, etc).
Potential impacts	The impacts are minimal and not within proxim	ity to sensitive rece	ptors or communities
	has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date. Activity is more than 6km from nearesst homestead. Drilling not to occur within 2km of houses. Land is currently used for agricultural grazing or cropping.		
	Activity is more than 6km from nearesst homes Land is currently used for agricultural grazing or		occur within 2km of houses.
Duration			occur within 2km of houses.
Application ranking	Land is currently used for agricultural grazing or 14 Negligible	r cropping.	occur within 2km of houses.
	Land is currently used for agricultural grazing or 14	Are further studies required on impacts or	occur within 2km of houses.
Application ranking What is the confidence in predicting impacts?	Land is currently used for agricultural grazing or 14 Negligible High	Are further studies required on impacts or mitigation?	No
Application ranking What is the confidence in predicting	Land is currently used for agricultural grazing or 14 Negligible	Are further studies required on impacts or	
Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Land is currently used for agricultural grazing or 14 Negligible High	Are further studies required on impacts or mitigation? What is the level of public	No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Land is currently used for agricultural grazing or 14 Negligible High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Land is currently used for agricultural grazing or 14 Negligible High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	No
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	Land is currently used for agricultural grazing or 14 Negligible High High High Resilience Yes Fully Yes Social Impacts: Effect on a locality, place or buil architectural, cultural, historical, scientific or so generations?	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra ding having aesthet cial significance or c	No Low Low ic, anthropological, archaeological, other special value for present or future
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	Land is currently used for agricultural grazing or 14 Negligible High High Ves Fully Yes Social Impacts: Effect on a locality, place or buil architectural, cultural, historical, scientific or so generations? There will be no detrimental effect on the aesth	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra ding having aesthet cial significance or contents, or any other states	No Low Low ic, anthropological, archaeological, other special value for present or future special value
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	Land is currently used for agricultural grazing or 14 Negligible High High High Resilience Yes Fully Yes Social Impacts: Effect on a locality, place or buil architectural, cultural, historical, scientific or so generations? There will be no detrimental effect on the aesth Exploration has been undertaken in this area by has been initiated with affected landholders and	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra ding having aesthet cial significance or context previous explorers d the community. A	No Low Low ic, anthropological, archaeological, other special value for present or future special value for many years. Community consultation regular flow of information will be
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 Proposed management controls	Land is currently used for agricultural grazing or 14 Negligible High High Ves Fully Yes Social Impacts: Effect on a locality, place or buil architectural, cultural, historical, scientific or so generations? There will be no detrimental effect on the aesth Exploration has been undertaken in this area by	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra ding having aesthet cial significance or context previous explorers d the community. A	No Low Low ic, anthropological, archaeological, other special value for present or future special value for many years. Community consultation regular flow of information will be
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	Land is currently used for agricultural grazing or 14 Negligible High High High Resilience Yes Fully Yes Social Impacts: Effect on a locality, place or buil architectural, cultural, historical, scientific or so generations? There will be no detrimental effect on the aesth Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra ding having aesthet cial significance or context previous explorers d the community. A	No Low Low ic, anthropological, archaeological, other special value for present or future special value for many years. Community consultation regular flow of information will be

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 ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Social Impacts: Impacts on communities with strong sense of identity.		
Potential impacts	There will be no impact or change to the community following the proposed drilling program		
Proposed management controls	Exploration has been undertaken in this area by previous explorers for many years. Community consulta has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
Duration	14		
Application ranking	Negligible		
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	
cope mu inputtor		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
• • • • • • • • • • • • • • • • • • • •		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Social Impacts: Impacts on disadvantaged comm	nunities.	
	There will be no impact or change to the community following the proposed drilling program		
Potential impacts Proposed management controls	There will be no impact or change to the comm Exploration has been undertaken in this area by		· · · · ·
Proposed management controls	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in	previous explorers d the community. A	for many years. Community consultation regular flow of information will be
Proposed management controls Duration	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14	previous explorers d the community. A	for many years. Community consultation regular flow of information will be
Proposed management controls Duration Application ranking	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in	previous explorers d the community. A	for many years. Community consultation regular flow of information will be
Proposed management controls Duration	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	r previous explorers d the community. A nmediately. No issu Are further studies required on	for many years. Community consultation regular flow of information will be es have been raised to date.
Proposed management controls Duration Application ranking What is the confidence in predicting	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	r previous explorers d the community. A nmediately. No issu Are further studies required on impacts or	for many years. Community consultation regular flow of information will be es have been raised to date.
Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	r previous explorers d the community. A nmediately. No issu Are further studies required on impacts or mitigation?	for many years. Community consultation regular flow of information will be es have been raised to date. No
Proposed management controls Duration Application ranking What is the confidence in predicting	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible	r previous explorers d the community. A nmediately. No issu Are further studies required on impacts or	for many years. Community consultation regular flow of information will be es have been raised to date.
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	Are further studies required on impacts or mitigation? What is the level of public	for many years. Community consultatior regular flow of information will be es have been raised to date. No
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	for many years. Community consultation regular flow of information will be es have been raised to date. No
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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?	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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?	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Economic Impacts: Any impacts which may affe	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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 reversed? Do the operations comply with standards, plans, policies? Criteria	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare. n/a	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare. n/a n/a - not likely to impact.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare. n/a n/a - not likely to impact. 14	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	for many years. Community consultation regular flow of information will be es have been raised to date. No Low
Proposed management controls Duration 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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare. n/a n/a - not likely to impact. 14 High	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re ct economic activity	for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low (positive or negative), including a No
Proposed management controls Duration 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 Proposed management controls Duration Application ranking What is the confidence in predicting	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare. n/a n/a - not likely to impact. 14	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra ct economic activity	for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low
Proposed management controls Duration 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 reversed? 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	Exploration has been undertaken in this area by has been initiated with affected landholders and provided, and any concerns will be addressed in 14 Negligible High High Resilience Yes Fully Yes Economic Impacts: Any impacts which may affe decrease to net economic welfare. n/a n/a - not likely to impact. 14 High	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra- ct economic activity Are further studies required on impacts or mitigation?	for many years. Community consultation regular flow of information will be es have been raised to date. No Low Low (positive or negative), including a No

Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Economic Impacts: Any impacts that result in a	decrease in the eco	nomic stability of the community.
Potential impacts	n/a		
Proposed management controls	n/a		
	Not likely to decrease economic stability.		
Duration	14		
Application ranking			
What is the confidence in predicting	High	Are further	No
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 r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Economic Impacts: Any impacts which result in	a change to the pub	blic sector revenue or expenditure base
Potential impacts	n/a		
Proposed management controls	n/a		
	Nucl Phata to the second of the second second second		
Duration	Not likely to impact public sector revenue or ex 14	penditure base.	
Duration Application ranking	14		
What is the confidence in predicting	High	Are further	No
impacts?	i iigii	studies	110
inipacto.		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 ra	anking
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Heritage Impacts: Any impacts on a locality, pla	 co. landscano. build	ing or archaeological rolic of boritage
Cinteria	significance.	ce, lanuscape, bullu	
Potential impacts	There are no listed heritage items, places or are	as in this proposed	drilling area
Proposed management controls	n/a		
	No management controls required as no listed	locality, place, lands	cape, building or archaeological relic o
	heritage significance.		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		importe er	
		impacts or mitigation?	
How resilient is the environment to	High Resilience	mitigation?	low
How resilient is the environment to cope with impacts?	High Resilience	mitigation? What is the	Low
How resilient is the environment to cope with impacts?	High Resilience	mitigation? What is the level of public	Low
cope with impacts?	High Resilience Yes	mitigation? What is the level of public concern?	Low
	-	mitigation? What is the level of public concern? Ranking of	
cope with impacts?	-	mitigation? What is the level of public concern?	
cope with impacts? Can the impacts be reversed?	-	mitigation? What is the level of public concern? Ranking of potential significance	Low
cope with impacts?	Yes	mitigation? What is the level of public concern? Ranking of potential	Low
cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	Yes Fully	mitigation? What is the level of public concern? Ranking of potential significance	Low

Potential impacts	The proposed drilling is more than 5km away from nearest residence and will likely not be visible at all. No			
	night works so no lights.			
Proposed management controls	No drilling within 2km of houses.			
Duration	14 Neglicible			
Application ranking	Negligible	Γ		
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
	Utab Deatheres	mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of public		
0		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
On the interview of the set the set of the s	F 11	significance		
Can the impacts be mitigated?	Fully	Justification for ra	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Aesthetic Impacts: Areas or items of high aesthe	etic or scenic value.		
Potential impacts	The proposed drilling is more than 5km away from the proposed drilling is more the proposed drilling drilling is more the proposed drilling dr	om nearest residen	ce and will likely not be visible at all. No	
	night works so no lights.			
Proposed management controls	No drilling within 2km of houses.			
Duration	14			
Application ranking	Negligible		r	
What is the confidence in predicting	High	Are further	No	
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?				
standards, plans, policies:		surface or any cult	urally modified trees (e.g. a scar tree).	
Criteria	Cultural Impacts: Any disturbance of the ground	, , , , , , , , , , , , , , , , , , , ,		
Criteria	. ,		oy any Aboriginal heritage	
Criteria Potential impacts	The proposed drilling program is not anticipated	d to disturb or destr		
Criteria	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff v	d to disturb or destr will inform manager	nent teams who will record the	
Criteria Potential impacts	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is	d to disturb or destr will inform manager 6 Heritage NSW pref	nent teams who will record the erred method of recording). This site	
Criteria Potential impacts	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer	d to disturb or destr will inform manager Heritage NSW pref around it. Any conc	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
Criteria Potential impacts	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS	d to disturb or destr will inform manager Heritage NSW pref around it. Any conc	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
Criteria Potential impacts	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer	d to disturb or destr will inform manager Heritage NSW pref around it. Any conc	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
Criteria Potential impacts	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek.	d to disturb or destr will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
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Criteria Potential impacts Proposed management controls Duration	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14	d to disturb or destr will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
Criteria Potential impacts Proposed management controls Duration Application ranking	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive	d to disturb or destr will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500 ns or objects.	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14	d to disturb or destr will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500 ns or objects. Are further	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
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Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive	d to disturb or destr will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500 ns or objects. Are further studies required on	nent teams who will record the erred method of recording). This site erns regarding new sites and working in	
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Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive High	d to disturb or destr will inform manager Heritage NSW pref around it. Any cond W on 02 9873 8500 ns or objects. Are further studies required on impacts or mitigation? What is the level of public concern?	nent teams who will record the ferred method of recording). This site erns regarding new sites and working in No	
Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive High	d to disturb or destr will inform manager s Heritage NSW pref around it. Any cond W on 02 9873 8500 ns or objects. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	nent teams who will record the ferred method of recording). This site erns regarding new sites and working in	
Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive High	d to disturb or destr will inform manager s Heritage NSW pref around it. Any cond W on 02 9873 8500 ns or objects. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	nent teams who will record the ferred method of recording). This site erns regarding new sites and working in No	
Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive High High Resilience	d to disturb or destr will inform manager s Heritage NSW pref around it. Any cond W on 02 9873 8500 ns or objects. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	nent teams who will record the ferred method of recording). This site erns regarding new sites and working in No	
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Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive High High Resilience	d to disturb or destr will inform manager s Heritage NSW pref around it. Any cond W on 02 9873 8500 ns or objects. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	nent teams who will record the ferred method of recording). This site erns regarding new sites and working in No	
Criteria Potential impacts Proposed management controls Duration 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?	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive High Yes Fully Yes	d to disturb or destr will inform manager s Heritage NSW pref around it. Any cond W on 02 9873 8500 ns or objects. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	nent teams who will record the ferred method of recording). This site erns regarding new sites and working in No Low Low	
Criteria Potential impacts Proposed management controls Duration 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	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. AHIMS report supplied, no listed known location 14 Positive High High Resilience Yes	d to disturb or destr will inform manager s Heritage NSW pref around it. Any cond W on 02 9873 8500 ns or objects. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	nent teams who will record the ferred method of recording). This site erns regarding new sites and working in No Low Low	

Proposed management controls	Should any Aboriginal sites be discovered staff will inform management teams who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500. No drilling within 200m of Milmiland Creek.		
	AHIMS report identifies no known Aboriginal objects or places within area of proposed drilling.		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	No
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 ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Cultural Impacts: Affects areas where the lands objects.	· ·	
Potential impacts	Milmiland Creek is present within the approval other landscape features as listed above.	area and no drilling	will occur within 200m. There are no
	Should any Aboriginal sites be discovered staff will inform management teams who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working the area will be raised directly with Heritage NSW on 02 9873 8500. No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of waters, located within a sand dune system, located on a ridg top, ridge line or headland, located within 200 metres below or above a cliff face, or within 20 metres of waters.		
	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa	aters, located within	a sand dune system, located on a ridge
	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth.	aters, located within	a sand dune system, located on a ridge
Duration	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14	aters, located within	a sand dune system, located on a ridge
Application ranking	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive	aters, located within netres below or abo	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i
Application ranking What is the confidence in predicting	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14	aters, located within netres below or abo Are further	a sand dune system, located on a ridge
Application ranking	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive	aters, located within metres below or abo Are further studies	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i
Application ranking What is the confidence in predicting	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive	aters, located within metres below or abo Are further studies required on	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i
Application ranking What is the confidence in predicting	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive	aters, located within metres below or abo Are further studies required on impacts or	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i
Application ranking What is the confidence in predicting impacts?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High	Are further studies required on mitigation?	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive	Are further studies required on impacts or What is the	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i
Application ranking What is the confidence in predicting impacts?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High	Are further studies required on impacts or mitigation? What is the level of public	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High	Are further studies required on impacts or mitigation? What is the level of public concern?	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience	Are further studies required on impacts or mitigation? What is the level of public	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 m a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
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?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No
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	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low
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?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low anking
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	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low anking
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?	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements. The proposed drilling area is not within an area Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra- title claims, indiger where native title n will inform manager around it. Any conc	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low anking nous land use agreements or joint nay exist. ment teams who will record the ferred method of recording). This site erns regarding new sites and working in
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 Proposed management controls	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements. The proposed drilling area is not within an area Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Lot ownership is private/freehold land.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra- title claims, indiger where native title n will inform manager around it. Any conc	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low anking nous land use agreements or joint nay exist. ment teams who will record the ferred method of recording). This site erns regarding new sites and working in
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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements. The proposed drilling area is not within an area Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra- title claims, indiger where native title n will inform manager around it. Any conc	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low anking nous land use agreements or joint nay exist. ment teams who will record the ferred method of recording). This site erns regarding new sites and working in
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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements. The proposed drilling area is not within an area Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Lot ownership is private/freehold land. 14	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra- title claims, indiger where native title n will inform manager around it. Any conc	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low anking nous land use agreements or joint nay exist. ment teams who will record the ferred method of recording). This site erns regarding new sites and working in
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 Proposed management controls Duration Application ranking	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements. The proposed drilling area is not within an area Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Lot ownership is private/freehold land. 14 Positive	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra- where native title n will inform manager around it. Any conc	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low Low anking nous land use agreements or joint may exist. ment teams who will record the ferred method of recording). This site erns regarding new sites and working in
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 Proposed management controls Duration Application ranking What is the confidence in predicting	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements. The proposed drilling area is not within an area Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Lot ownership is private/freehold land. 14 Positive	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra- where native title n will inform manager s Heritage NSW pref around it. Any conco W on 02 9873 8500	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low Low anking nous land use agreements or joint may exist. ment teams who will record the ferred method of recording). This site erns regarding new sites and working in
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 Proposed management controls Duration Application ranking What is the confidence in predicting	the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Drilling is not occurring within 200 metres of wa top, ridge line or headland, located within 200 r a cave, rock shelter, or a cave mouth. 14 Positive High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to native management arrangements. The proposed drilling area is not within an area Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. Lot ownership is private/freehold land. 14 Positive	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra where native title n will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500	a a sand dune system, located on a ridge ove a cliff face, or within 20 metres of or i No Low Low Low anking nous land use agreements or joint may exist. ment teams who will record the ferred method of recording). This site erns regarding new sites and working in

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 ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Cultural Impacts: Impacts on Aboriginal communities or areas subject to land rights claims.		
Potential impacts	There are no known Aboriginal Sites noted on the AHIMS search located within the approval area.		
Proposed management controls	Should any Aboriginal sites be discovered staff will inform management teams who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working i the area will be raised directly with Heritage NSW on 02 9873 8500. No drilling within 200m of Milmiland Creek.		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	No
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 ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Cultural Impacts: Impacts on areas or items of h		, archaeological, architectural, cultural,
	heritage, historical, recreational or scientific val		
		to disturb or destr	oy any Aboriginal heritage
-	The proposed drilling program is not anticipated		
-		will inform manager Heritage NSW pref around it. Any conc	erred method of recording). This site erns regarding new sites and working in
Proposed management controls	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS	will inform manager Heritage NSW pref around it. Any conc	erred method of recording). This site erns regarding new sites and working in
Proposed management controls Duration	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek.	will inform manager Heritage NSW pref around it. Any conc	erred method of recording). This site erns regarding new sites and working in
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Proposed management controls Duration 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 reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts	The proposed drilling program is not anticipated Should any Aboriginal sites be discovered staff v information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drilling within 200m of Milmiland Creek. 14 Positive High High Resilience Yes Fully Yes Land Use Impacts: Any major changes in land us n/a	will inform manager Heritage NSW pref around it. Any conc W on 02 9873 8500 Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra-	erred method of recording). This site erns regarding new sites and working in No Low Low ennt of other beneficial land uses.

		nods are undertaker	n efficiently and effectively.
	site, but otherwise within 3 months of end of drilling. Strong knowledge of the area a with landholders will ensure rehabilitation methods are undertaken efficiently and eff		
	on tracks. Undertake rehabilitation as soon as p		
Proposed management controls	Works occur only during dry season. Limit vehic		
	the drilling and small footprint will not result in information relating to the Macquarie Marshes	-	
	exploration drilling is not declared as designated	d development in th	e Warren LEP. The low impact nature of
Potential impacts	plans. The Macquarie Marshes Wetlands are identified	d in the Warren Loca	al Environmental Plan 2012. Mineral
Criteria	Consistency with applicable local strategic plan	ning statements, reg	ional strategic plans or district strategic
standards, plans, policies?	163		
Can the impacts be mitigated? Do the operations comply with	Fully Yes	Justification for ra	апкіпg
Can the impacts he militants d	Fully	significance	nking
		potential	
Can the impacts be reversed?	Yes	Ranking of	Low
		concern?	
cope with impacts?	ingli healierice	level of public	
How resilient is the environment to	High Resilience	mitigation? What is the	Low
		impacts or	
		required on	
impacts?	5	studies	
What is the confidence in predicting	High	Are further	No
Duration Application ranking	14 Positive		
Proposed management controls	n/a		
Potential impacts	There will be no significant impact on transport	ation from a small t	emporary drilling program
Criteria	Transportation Impacts: Impacts associated wit		
standards, plans, policies?			
Do the operations comply with	Yes		-
Can the impacts be mitigated?	Fully	Justification for ra	anking
		potential significance	
Can the impacts be reversed?	Yes	Ranking of	Low
		concern?	
cope with impacts?	ingri itesiliente	level of public	
How resilient is the environment to	High Resilience	mitigation? What is the	Low
		impacts or	
		required on	
impacts?		studies	
Application ranking What is the confidence in predicting	Positive High	Are further	No
Duration	14 Desitive		
Potential impacts Proposed management controls	There will be no significant impact on transport n/a	auon from a small t	emporary drilling program
Detertial immedia	alter present patterns of circulation or moveme		
Criteria	Transportation Impacts: Substantial impacts on	existing transportat	ion systems (road, rail, pedestrian) which
Do the operations comply with standards, plans, policies?	Yes		
Can the impacts be mitigated?	Fully	Justification for ra	anking
		significance	
		potential	
Can the impacts be reversed?	Yes	concern? Ranking of	Low
cope with impacts?		level of public	
How resilient is the environment to	High Resilience	What is the	Low
		impacts or mitigation?	
		required on	
		studies	

What is the confidence in predicting	High	Are further	No
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	
Courth a immedia ha museurada	Ver	concern?	1
Can the impacts be reversed?	Yes	Ranking of potential	Low
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Matters of National Environmental Significance	Impacts on MNES	under the Commonwealth Environmenta
	Protection and Biodiversity Conservation Act 19	99:	
Potential impacts Proposed management controls	On the MNES search there are 4 listed Threatened Ecological Communities, 25 listed Threatened species, Listed Migratory Species, and 4 wetlands of international importance. The 4 listed threatened ecological communities show Coolibah – Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions, Poplar Box Grassy Woodland on Alluvial Plains, Grey Box (Eucalyptus microcarpa) Grass Woodlands and Derived Native Grasslands of South-eastern Australia, and Weeping Myall Woodlands are Endangered and communities likely to occur in this area. Of the 25 listed threatened species the Curlew Sandpiper, Swift Parrot, and Plains-Wanderer are critically endangered, and the Silver Perch (the link in the MNES report states the Curlew Sandpiper, and Plains Wanderer species are endangered and not critical f NSW). The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The listed migratory species has the Curlew Sandpiper listed as critically endangered – however the link to thi species differs stating for NSW this is endangered. Areas of drilling are relatively open, and vegetation is in expected to be impacted, and therefore threatened species should not be impacted. Banrock Station Wetland complex, Riverland, The Coorong, and Lakes Alexandrina and Albert Wetland are over 600km av The RAMSAR Macquarie Marshes Nature Reserve is located 3km north of the approval area. Agricultural properties that have already been cleared were selected for this drilling program to significar reduce the risk of impacting threatened ecological communities, threatened species, and threatened migratory species. Vegetation is not to be cleared as part of the program therefore not damaging threatened ecological		
	Crews are instructed to not interact with wildlif Self assessment completed. as per recommenda Energy, the Environment and Water, with findir Marshes with sufficient mitigating protocols in sensitivities.	ation from Commor	nwealth Department of Climate Change, nt impact to wetlands and Macquarie
Duration	14		
Application ranking	Positive		Ι
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?	Uncertain	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Cumulative Impacts: Cumulative environmental	effects with other	existing or likely future activities.
Potential impacts	n/a		
Proposed management controls	n/a		
	Program is for one drill hole. Exisiting and likely	future activities no	t affected.
Duration	14		

What is the confidence in predicting	High	Are further	No
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 r	anking
Do the operations comply with	Yes		
standards, plans, policies?			

FORM: Brief NonCEA (v3.4)

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