

Tuesday 9 April 2024

# Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors

# Fairholme | APO0001733

Decision Maker	Monique Meyer
Prepared by	Marianne Bonnay
Title	EL 8422 (1992)
Authorised Representative	
Project name	Fairholme
Activity type	Non-Complying Exploration Activity

#### Issue

has sought an activity approval in respect of Fairholme, within EL 8422 (1992), at 75km NNE from Nyngan.

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

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

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

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

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

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

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

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

# Background

This exploration activity approval is being sought under EL 8422 (granted 17/2/2016 & expiry 17/2/2025) to undertake assessable prospecting operations.

The current security deposit held for EL 8422 is \$10,000.

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

1. APO0001413 for 2 drillholes approved on 28/9/2023.

# 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 Fairholme* 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 Fairholme is approved.

Refer to RCE Record RCE0001900

# 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 Fairholme 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 for approval has been assessed as being Approve for grant.

# Certification

I, Marianne Bonnay, 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 Fairholme 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.  There is one homestead, Willie, located within the proposed drilling area. 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 400m 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 will occur throughout the whole program to ensure best and appropriate practices are being maintained.		
Duration	7-10		
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			
	Medium Resilience	What is the	Low
cope with impacts?		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 Standards) plans, poneies.	Air Impacts: Greenhouse or ozone impacts.		
Potential impacts	Air impacts from the proposed program are negligible.		
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	drilling does not produce significant dust the im		= -
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	Landholder consultation will occur throughout t	the whole program	to ensure best and appropriate practices
	are being maintained.		
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
How resilient is the environment to	Medium Resilience	mitigation?	Law
cope with impacts?	iviedium Resilience	What is the level of public	Low
cope with impacts:		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
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Can the impacts be mitigated?	Partly	Justification for ra	anking
Can the impacts be mitigated?  Do the operations comply with	Partly N/A	Justification for ra	anking
Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?		Justification for ra	anking
Do the operations comply with			anking
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# Potential impacts If groundwater is encountered during drilling it will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water. Should there be excessive water in the area this program will be postponed as it is close to the Macquarie

Should there be excessive water in the area this program will be postponed as it is close to the Macquarie Marshes Nature Reserve. There are several drainages within the proposed drilling area. Proposed collars will not be progressed if they occur within 40m of any existing drainages, sites will remain further than 40m from drainages. In times of high rainfall and high water in the nearby watercourses, these areas can be inundated / flooded. Should there be elevated water levels this drilling will not be undertaken until water subsides and ground conditions are favourable for vehicular access without detrimentally damaging the ground. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.

The Macquarie River is located approximately 60m from the eastern boundary of the proposed drilling area at the nearest point, however actual collar locations are more likely to be drilled more than 500m to the west of the river.

#### **Proposed management controls**

Drilling will not be undertaken during wet weather events. Should there be elevated water levels this drilling will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling methods ensure that water is contained in the same strata and does not cross to different water bearing strata.

#### SW management

Surface water should not be affected by the proposed activities. Should there be excessive water in the area this program will be postponed as it is close to the Macquarie Marshes Nature Reserve. There are several drainages within the proposed drilling area. Proposed collars will not be progressed if they occur within 40m of any existing drainages, sites will remain further than 40m from drainages. Many drainages occur in this area, specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.

The Macquarie River is located approximately 60m from the eastern boundary of the proposed drilling area at the nearest point, however actual collar locations are more likely to be drilled more than 500m to the west of the river.

There will be no storage of surface water nor disposal of water to surface.

#### Nationally important wetland

Pre-referral meeting with DCCEEW on 28/3/2024 in relation to EPBC matters due proximity of Ramsar wetland. Outcome: ACGH undertake self-assessment on each separate project (APO) to determine if there will be a significant impact to the Wetlands and Macquarie Marshes. A self-assessment document has been completed, with the outcome confirming that there will not be a significant impact to the Wetlands and Macquarie Marshes, sufficient mitigating protocols are in place to ensure management of identified risks and sensitivities.

# Self-Assessment outcomes:

Additional precautions to be taken around working in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters

Management controls

Proposed works will be undertaken in open agricultural land, rotating cropping and grazing land and away from any vegetated areas where species are more likely. Drilling will only occur during dry conditions, the sites will not be accessed during times of flood. Close consultation with the landholders will continue regularly prior to proposed drilling to ensure that access conditions are favourable. No waterways will be affected by this proposed drilling. As a minimum requirement all drilling will be completed at least 40m from any drainage system.

Macquarie Marshes management controls.

Drilling will not be undertaken during wet weather events. Should there be elevated water levels this drilling will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling methods ensure that water is contained in the same strata and does not cross to different water bearing strata. Casing and environmentally friendly drilling muds are used to weight the water to assist with containing any waters that may be encountered. The temporary drilling program will take place within agricultural cropped and grazing paddocks, which are widely worked by the landholders. Landholders advice on appropriate and best access to each proposed location is taken on and should ground conditions not be favourable works are postponed until suitable conditions arise. Additional caution to time of year and ground conditions will be taken prior to undertaking the works.

Duration	7-10		
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	Medium Resilience	What is the	Low	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	Uncertain	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Partly	Justification for ranking		
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Water Impacts: Impacts from storage of water			
Potential impacts				
	If groundwater is encountered during drilling it will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water. Should there be excessive water in the area this program will be postponed as it is close to the Macquarie Marshes Nature Reserve. There are several drainages within the proposed drilling area. Proposed collars will not be progressed if they occur within 40m of any existing drainages, sites will remain further than 40m from drainages. In times of high rainfall and high water in the nearby watercourses, these areas can be inundated / flooded. Should there be elevated water levels this drilling will not be undertaken until water subsides and ground conditions are favourable for vehicular access without detrimentally damaging the ground. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.  The Macquarie River is located approximately 60m from the eastern boundary of the proposed drilling area at the nearest point, however actual collar locations are more likely to be drilled more than 500m to the			
Proposed management controls	west of the river.  Drilling will not be undertaken during wet weather events. Should there be elevated water levels the will not be undertaken until water subsides. Groundwater is not expected to cause concern as drill methods ensure that water is contained in the same strata and does not cross to different water be strata.  Drilling contractors will utilise above ground sumps and so no excavations are required. Above ground will be emptied, and contents disposed of at a suitable facility.			
	SW management Surface water should not be affected by the proposed activities. Should there be excessive water in the are this program will be postponed as it is close to the Macquarie Marshes Nature Reserve. There are several drainages within the proposed drilling area. Proposed collars will not be progressed if they occur within 40r of any existing drainages, sites will remain further than 40m from drainages. Many drainages occur in this area, specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.  The Macquarie River is located approximately 60m from the eastern boundary of the proposed drilling area at the nearest point, however actual collar locations are more likely to be drilled more than 500m to the west of the river.  There will be no storage of surface water nor disposal of water to surface.			
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Duration	west of the river.  There will be no storage of surface water nor diagram.  7-10	ions are more likely		
Duration Application ranking	west of the river.  There will be no storage of surface water nor di	ions are more likely		
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Application ranking What is the confidence in predicting	west of the river.  There will be no storage of surface water nor diagram of the storage of surface water nor diagram of the surface	sposal of water to s  Are further studies required on impacts or	urface.	
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	west of the river. There will be no storage of surface water nor dispersion of the river.  7-10 Negligible High	Are further studies required on impacts or mitigation? What is the level of public	urface.	
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	west of the river. There will be no storage of surface water nor discrete water nor discr	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	No  Medium  Low	
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?  Can the impacts be reversed?	west of the river. There will be no storage of surface water nor discrete water nor discr	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	No  Medium  Low	

#### **Potential impacts**

If groundwater is encountered during drilling it will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.

Should there be excessive water in the area this program will be postponed as it is close to the Macquarie Marshes Nature Reserve. There are several drainages within the proposed drilling area. Proposed collars will not be progressed if they occur within 40m of any existing drainages, sites will remain further than 40m from drainages. In times of high rainfall and high water in the nearby watercourses, these areas can be inundated / flooded. Should there be elevated water levels this drilling will not be undertaken until water subsides and ground conditions are favourable for vehicular access without detrimentally damaging the ground. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.

The Macquarie River is located approximately 60m from the eastern boundary of the proposed drilling area at the nearest point, however actual collar locations are more likely to be drilled more than 500m to the west of the river.

#### **Proposed management controls**

Drilling will not be undertaken during wet weather events. Should there be elevated water levels this drilling will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling methods ensure that water is contained in the same strata and does not cross to different water bearing strata.

Drilling contractors will utilise above ground sumps and so no excavations are required. Above ground sumps will be emptied, and contents disposed of at a suitable facility.

#### SW management

Surface water should not be affected by the proposed activities. Should there be excessive water in the area this program will be postponed as it is close to the Macquarie Marshes Nature Reserve. There are several drainages within the proposed drilling area. Proposed collars will not be progressed if they occur within 40m of any existing drainages, sites will remain further than 40m from drainages. Many drainages occur in this area, specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.

The Macquarie River is located approximately 60m from the eastern boundary of the proposed drilling area at the nearest point, however actual collar locations are more likely to be drilled more than 500m to the west of the river.

There will be no storage of surface water nor disposal of water to surface.

#### Nationally important wetland

Pre-referral meeting with DCCEEW on 28/3/2024 in relation to EPBC matters due proximity of Ramsar wetland. Outcome: ACGH undertake self-assessment on each separate project (APO) to determine if there will be a significant impact to the Wetlands and Macquarie Marshes. A self-assessment document has been completed, with the outcome confirming that there will not be a significant impact to the Wetlands and Macquarie Marshes, sufficient mitigating protocols are in place to ensure management of identified risks and sensitivities.

#### Self-Assessment outcomes:

Additional precautions to be taken around working in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters Management controls

Proposed works will be undertaken in open agricultural land, rotating cropping and grazing land and away from any vegetated areas where species are more likely. Drilling will only occur during dry conditions, the sites will not be accessed during times of flood. Close consultation with the landholders will continue regularly prior to proposed drilling to ensure that access conditions are favourable. No waterways will be affected by this proposed drilling. As a minimum requirement all drilling will be completed at least 40m from any drainage system.

Macquarie Marshes management controls.

Drilling will not be undertaken during wet weather events. Should there be elevated water levels this drilling will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling methods ensure that water is contained in the same strata and does not cross to different water bearing strata. Casing and environmentally friendly drilling muds are used to weight the water to assist with containing any waters that may be encountered. The temporary drilling program will take place within agricultural cropped and grazing paddocks, which are widely worked by the landholders. Landholders advice on appropriate and best access to each proposed location is taken on and should ground conditions not be favourable works are postponed until suitable conditions arise. Additional caution to time of year and ground conditions will be taken prior to undertaking the works.

Duration	7-10
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	Medium Resilience	What is the	Medium	
cope with impacts?	Wedidili Nesilience	level of public	Wediam	
cope with impacts:		concern?		
Con the impacts he reversed?	Lincortain		Low	
Can the impacts be reversed?	Uncertain	Ranking of	Low	
		potential		
		significance	<u> </u>	
Can the impacts be mitigated?	Partly	Justification for ra	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Water Impacts: Impacts from aquifer interferen	ice, including chang	es to inter-aquiter connectivity.	
Potential impacts	If groundwater is encountered during drilling it will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water.			
	The program is not expected to have an impact		tered any difficulties with water.	
	Should there be excessive water in the area this		estagned as it is close to the Massurarie	
	Marshes Nature Reserve. There are several drai			
	not be progressed if they occur within 40m of a	, ,		
	drainages. In times of high rainfall and high wat			
	/ flooded. Should there be elevated water level:	_		
	ground conditions are favourable for vehicular a			
	access to sites will be undertaken in close consu	litation with the lan	anolder who knows the ground	
	conditions the best.			
	The Macquarie River is located approximately 6		-	
	at the nearest point, however actual collar local	tions are more likely	y to be drilled more than 500m to the	
	west of the river.			
Proposed management controls	Drilling will not be undertaken during wet weat		_	
	will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling			
	methods ensure that water is contained in the s	same strata and doe	es not cross to different water bearing	
	strata.			
	Macquarie Marshes management controls.			
	Drilling will not be undertaken during wet weat	her events. Should t	there be elevated water levels this drilling	
	will not be undertaken until water subsides. Gro		_	
	methods ensure that water is contained in the s			
	strata. Casing and environmentally friendly drill		9	
	containing any waters that may be encountered	•	9	
	agricultural cropped and grazing paddocks, which			
		•	-	
	on appropriate and best access to each propose		_	
	favourable works are postponed until suitable o		altional caution to time of year and	
	ground conditions will be taken prior to underta	aking the works.		
Donation	7.10			
Duration	7-10			
Application ranking	Positive		T	
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Low	
cope with impacts?		level of public		
-		concern?		
Can the impacts be reversed?	Uncertain	Ranking of	Low	
·		potential		
		significance		
			anking	
Can the impacts he mitigated?	l Partiv	I JUSTINGATION for r		
Can the impacts be mitigated?	Partly	Justification for ra	ankiig	
Do the operations comply with	Yes	Justification for ra	anking	
	,		anning	

Potential impacts	If groundwater is encountered during drilling it will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.  Should there be excessive water in the area this program will be postponed as it is close to the Macquarie Marshes Nature Reserve. There are several drainages within the proposed drilling area. Proposed collars will not be progressed if they occur within 40m of any existing drainages, sites will remain further than 40m from drainages. In times of high rainfall and high water in the nearby watercourses, these areas can be inundated / flooded. Should there be elevated water levels this drilling will not be undertaken until water subsides and ground conditions are favourable for vehicular access without detrimentally damaging the ground. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.  The Macquarie River is located approximately 60m from the eastern boundary of the proposed drilling area at the nearest point, however actual collar locations are more likely to be drilled more than 500m to the west of the river.			
Proposed management controls	Drilling will not be undertaken during wet weatl will not be undertaken until water subsides. Gr	oundwater is not ex	spected to cause concern as drilling	
	methods ensure that water is contained in the s strata.	ame strata and doe	es not cross to different water bearing	
Duration	7-10			
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	Medium Resilience	What is the	Low	
cope with impacts?		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	Yes	Justification for fa	alikilig	
standards, plans, policies?	165			
Criteria Standards, plans, policies:	Water Impacts: Impacts from changes in surface	ı e or groundwater gı	uality and quantity.	
Potential impacts	If groundwater is encountered during drilling it ensure that water is contained in the same strat Company have drilled many holes in this area at The program is not expected to have an impact Should there be excessive water in the area this Marshes Nature Reserve. There are several drai not be progressed if they occur within 40m of a drainages. In times of high rainfall and high wat / flooded. Should there be elevated water levels ground conditions are favourable for vehicular access to sites will be undertaken in close consuconditions the best.  The Macquarie River is located approximately 6	t will be managed and contained by the drilling methods to ata and not cross to different water bearing strata. The and have not encountered any difficulties with water.		

#### Proposed management controls

Drilling will not be undertaken during wet weather events. Should there be elevated water levels this drilling will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling methods ensure that water is contained in the same strata and does not cross to different water bearing strata.

Drilling contractors will utilise above ground sumps and so no excavations are required. Above ground sumps will be emptied, and contents disposed of at a suitable facility.

#### Macquarie Marshes management controls.

Drilling will not be undertaken during wet weather events. Should there be elevated water levels this drilling will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling methods ensure that water is contained in the same strata and does not cross to different water bearing strata. Casing and environmentally friendly drilling muds are used to weight the water to assist with containing any waters that may be encountered. The temporary drilling program will take place within agricultural cropped and grazing paddocks, which are widely worked by the landholders. Landholders advice on appropriate and best access to each proposed location is taken on and should ground conditions not be favourable works are postponed until suitable conditions arise. Additional caution to time of year and ground conditions will be taken prior to undertaking the works.

Duration	7-10		
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	Medium Resilience	What is the	Low
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Partly	Justification for ranking	
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Degradation of soil quality (including contamination, salinisation or acidification).		

#### **Potential impacts**

There are no acid sulfate soils within this area.

The proposed drilling area covers soil type 4 and 5 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of five drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.

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

Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.

DISTURBANCE

This application 600sqm

# **Proposed management controls**

There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to make 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 existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.

7-10

Duration 7-1

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?	g resilienes	level of public	2011	
cope with impacts.		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
	. 65	potential	2011	
		significance		
Can the impacts be mitigated?	Partly	Justification for ra	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Soil & Stability Impacts: Impacts on land with hi	, gh agricultural capa	bility.	
Potential impacts	There are no acid sulfate soils within this area.		•	
r otential impacts	The proposed drilling area covers soil type 4 and	d 5 from the Land a	nd Soil Canability Classification, which is	
	moderate to severe limitations. A maximum of			
	approximately 7-10 days per hole. Due to the se	· · · · · · · · · · · · · · · · · · ·		
	personnel and vehicle movement will be restric	· · · · · · · · · · · · · · · · · · ·		
	temporary access routes, this will likely be scari	•		
	landholder will be maintained throughout this p	-		
	the landholder prior to site access and mitigation	-		
	considered, however with the proposed drilling		_	
	drilling waters will be contained in above groun	_	=	
	Wind erosion will be assessed in consultation w	•	=	
	measures considered. Salinity of groundwater v		G	
	methods groundwater will remain in the ground			
	sumps and not affect the surrounding surface.	and any arming we	aters will be contained in above ground	
	AIS Level 1 provided. The proposed drilling area	covers soil type 4 a	nd 5 from the Land and Soil Capability	
	AIS Level 1 provided. The proposed drilling area covers soil type 4 and 5 from the Land and Soil Capability Classification, which is moderate to severe limitations. Land use agricultural- Communication with			
	Landowner. No issues detected by RR on 8/4/2024.			
Proposed management controls	·	There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to make		
	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 existing			
	tracks where possible, should soil compaction re			
	ensure all ground is returned to existing state.	•	C	
	Earthworks and vegetation clearance is not requ	uired for this drilling	g program. Sites are relatively flat and	
	open.			
	Drill pad areas, affecting approximately 10 x 20i	n may require mind	or clearing of grass from the surface,	
	should this be necessary care will be taken to en	sure to leave root	stock to enable existing vegetation	
	regrowth.			
	DISTURBANCE			
	This application 600sqm			
Duration	7-10			
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	Medium Resilience	What is the	Medium	
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	Soil & Stability Impacts: Loss of soil from wind or water erosion.			

Potential impacts	There are no acid sulfate soils within this area.  The proposed drilling area covers soil type 4 and 5 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of five drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.  Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.			
Proposed management controls	sumps and not affect the surrounding surface.  There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to make 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 existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.  The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.  Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.  Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.			
	DISTURBANCE This application 600sqm			
Duration	7-10			
Duration Application ranking	Negligible			
What is the confidence in predicting	High	Are further	N/A	
impacts?		studies required on impacts or mitigation?	,	
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Partly	Justification for ra	anking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Soil & Stability Impacts: Loss of structural integr	l rity of the soil.		
Potential impacts	There are no acid sulfate soils within this area.	10, 01 010 00		
	The proposed drilling area covers soil type 4 and 5 from the Land and Soil Capability Classification, which moderate to severe limitations. A maximum of five drillholes are proposed and this drilling is likely to tal approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.  Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.  The land is currently utilised for agricultural grazing purposes. The land use will not be changed during of after the proposed drilling works.  Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.  Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth.  DISTURBANCE  This application 600sqm			

Proposed management controls	There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to make 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 existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.		
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with	Yes		-
standards, plans, policies?	1		
Criteria	Soil & Stability Impacts: Increased land instability	ı tv with high risks fra	om land slides or subsidence
Potential impacts	There are no acid sulfate soils within this area.	., ., ., ., ., ., ., ., ., ., ., ., ., .	and shads of substatemen.
Proposed management controls  Duration	The proposed drilling area covers soil type 4 and 5 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of five drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.  Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.  There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to make 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 existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.  The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.  Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open.  Drill pad		
	7-10		
Application ranking	Positive	Aur Cath	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?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Noise & Vibration Impacts: Results in increased	noise or vibration.	

Potential impacts	Willie Homestead is located within the drilling approved area. Actual proposed collar locations have not been finalised, however are likely to be more than 1km to the south of this homestead. Drilling will be undertaken in daylight hours only and the mud rotary and diamond drilling method selected has relatively low noise outputs compared to other drilling methods. Any relevant stakeholders will be notified of works.		
Proposed management controls	Drilling will not occur within 400m of sensitive r		
	only.		, 0
	TIMING/NOISE		
	12hr shifts 6am-6pm, 7 days a week		
	26 April to 17 Feb 2025 – 7 to 10 weeks		
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
How resilient is the environment to	LowResilience	mitigation? What is the	Medium
cope with impacts?	Lowresmence	level of public	Medium
cope with impacts.		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	Noise & Vibration Impacts: Affects sensitive rec	entors	
	· ·	•	al proposed collar locations have not been
Potential impacts	Willie Homestead is located within the drilling a finalised, however are likely to be more than 1k		
	in daylight hours only and the mud rotary and d		9
	outputs compared to other drilling methods. Ar	_	
Proposed management controls	Drilling will not occur within 400m of sensitive r	•	
	only.		
	TIMING/NOISE		
	12hr shifts 6am-6pm, 7 days a week		
	26 April to 17 Feb 2025 – 7 to 10 weeks		
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
How resilient is the environment to	LowResilience	mitigation? What is the	Medium
cope with impacts?	LOWRESHIETICE		Mediaiii
cope min impacts.		I LEVEL OT DUDIIC	
Can the impacts be reversed?		level of public concern?	
	Yes		Low
·	Yes	concern?	Low
		concern? Ranking of potential significance	
Can the impacts be mitigated?	Partly	concern? Ranking of potential	
Can the impacts be mitigated?  Do the operations comply with		concern? Ranking of potential significance	
Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?	Partly Yes	concern? Ranking of potential significance Justification for re	anking
Can the impacts be mitigated?  Do the operations comply with	Partly	concern? Ranking of potential significance Justification for re	anking
Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?	Partly Yes  Coastal Location & Processes: Affects coastal pr	concern? Ranking of potential significance Justification for re	anking
Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria	Partly Yes  Coastal Location & Processes: Affects coastal pr climate change conditions.	concern? Ranking of potential significance Justification for re	anking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria  Potential impacts Proposed management controls Duration	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions.  n/a n/a 7-10	concern? Ranking of potential significance Justification for re	anking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria  Potential impacts Proposed management controls Duration Application ranking	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions.  n/a n/a 7-10 Positive	concern? Ranking of potential significance Justification for rance	hazards, including those under projected
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	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions.  n/a n/a 7-10	concern? Ranking of potential significance Justification for rance occesses and coastal	anking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria  Potential impacts Proposed management controls Duration Application ranking	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions.  n/a n/a 7-10 Positive	concern? Ranking of potential significance Justification for rance occesses and coastal	hazards, including those under projected
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	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions.  n/a n/a 7-10 Positive	concern? Ranking of potential significance Justification for re ocesses and coastal  Are further studies required on	hazards, including those under projected
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	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions.  n/a n/a 7-10 Positive	concern? Ranking of potential significance Justification for re ocesses and coastal  Are further studies required on impacts or	hazards, including those under projected
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	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions.  n/a n/a 7-10 Positive	concern? Ranking of potential significance Justification for re ocesses and coastal  Are further studies required on	hazards, including those under projected
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?	Partly Yes  Coastal Location & Processes: Affects coastal preclimate change conditions. n/a n/a 7-10 Positive N/A	concern? Ranking of potential significance Justification for re ocesses and coastal  Are further studies required on impacts or mitigation?	hazards, including those under projected  N/A

Can the impacts be reversed?	N/A	Ranking of potential significance	Low	
Can the impacts be mitigated?	N/A	Justification for ra	anking	
Do the operations comply with standards, plans, policies?	N/A		J	
Criteria	Hazardous substances or chemicals: Impacts as: hazardous substances or chemicals.	sociated with the us	se, generation, storage or transport of	
Potential impacts	diesel tank mounted on an auxiliary drill vehicle	Diesel fuel is the only anticipated hydrocarbon to be used on site. It will be transported to site in a dedicate diesel tank mounted on an auxiliary drill vehicle. A spill kit will always be on site and minor spills will be cleaned up and waste material removed from site and disposed of at the nearest appropriately licensed waste facility.  Maintain regular checks of all fuel and lubricants, provide bunded areas where required. A spill kit will be at		
Proposed management controls	Maintain regular checks of all fuel and lubricant the site at all times.	s, provide bunded a	areas where required. A spill kit will be at	
Duration	7-10			
Application ranking	Negligible			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Partly	Justification for ra	anking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Wastes & Emissions: Impacts to the environment	nt resulting from the	e generation or disposal of wastes.	
Potential impacts	maintained in appropriately bunded storage tar waste removed from site and disposed of at ap	There should be minimal impact to the environment from the proposed short drilling program. Fuels maintained in appropriately bunded storage tanks. There will be no disposal of drilling waste at site – all waste removed from site and disposed of at appropriately licenced waste facility.		
Proposed management controls	Clean up any minor spills immediately and disponding managed licenced facility.  WASTE  Drill core will be removed from site to a Compa be removed from site. The collar will be capped removed from site at end of drilling program. Docemented from at least 18m to 1m from surface may need to be deeper depending upon condition previous drillholes in this area. Subsoil and tops	ny storage facility. ( and area made safe ue to groundwater e to ensure water de ions in the hole, hov	Once drilling is complete, all materials will e with all rubbish and drilling equipment being shallow in this area, holes will be oes not cross into different strata. This wever 18m has been appropriate in	
Duration	7-10			
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 cope with impacts?	Medium Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	No	Ranking of potential significance	Low	
Can the impacts be mitigated?	Partly	Justification for ra	anking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Wastes & Emissions: Impacts on drinking water or flood prone areas.			
Potential impacts	There will be no impact to the nearby Wetlands conducted in the dry conditions.	during this propose	ed short drilling program. Drilling to be	

Proposed management controls	Clean up any minor spills immediately and dispo	ose of any contamir	ated materials to an appropriately
	managed licenced facility.		
	NON-CEA triggered by proximity of Ramsar wet		
	Pre-referral meeting with DCCEEW on 28/3/202		
	wetland. Outcome: ACGH to undertake self-assessment on each separate project (APO) to determine if there		
	will be a significant impact to the Wetlands and	Macquarie Marshe	S.
	Self-Assessment outcomes:	•	
	Additional precautions to be taken around work	king in wetland area	as in times of flood. Additional care to be
	taken around endangered and vulnerable speci	_	
	waterways. Outcome = proposed works will not		
	waterways. Outcome = proposed works will not	t nave a significant i	mpact on EPBC Matters
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	iligii	studies	140
impacts:			
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Low
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
and impacts we reversed:		potential	
		significance	
Complication and the same	Double.	<u> </u>	l
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on groundwater r	echarge areas or ar	eas with high water table.
Potential impacts	There will be no impact to the nearby Wetlands	during this propose	ed short drilling program. Drilling to be
	conducted in the dry conditions.		
Proposed management controls	Clean up any minor spills immediately and dispo	ose of anv contamir	lated materials to an appropriately
_		,	** * *
-	managed licenced facility.	•	
	NON-CEA triggered by proximity of Ramsar wet	land.	
	,	land.	C matters due proximity of Ramsar
	NON-CEA triggered by proximity of Ramsar wet	land. 24 in relation to EPB	
	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass	land. 24 in relation to EPB essment on each se	parate project (APO) to determine if there
	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202	land. 24 in relation to EPB essment on each se	parate project (APO) to determine if there
	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes:	land. 24 in relation to EPB essment on each se I Macquarie Marshe	parate project (APO) to determine if there s.
	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around world	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be
	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes:  Additional precautions to be taken around worl taken around endangered and vulnerable speci	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and
	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around world	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and
Duration	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and
Duration Application capting	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and
Application ranking	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10 Negligible	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below. I	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters
Application ranking What is the confidence in predicting	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and
Application ranking	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10 Negligible	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. t have a significant i  Are further studies	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters
Application ranking What is the confidence in predicting	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10 Negligible	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below. I t have a significant i	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters
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Application ranking What is the confidence in predicting	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10 Negligible	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. t have a significant i  Are further studies required on impacts or	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters
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Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below. A thave a significant i have a significant i studies required on impacts or mitigation?	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters
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Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience	land. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below. A thave a significant i have a significant i studies required on impacts or mitigation?  What is the level of public concern?	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters  No  Medium
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant in the studies required on impacts or mitigation?  What is the level of public concern? Ranking of	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters
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Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?  Can the impacts be reversed?	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  Low
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. At have a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  Low
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Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?  Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  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?	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relation each see the	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  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	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relation each see the	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  Low  anking
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Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?  Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  Proposed management controls	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes  Wastes and Emissions: Impacts on coastlines or landforms.  N/A  N/A	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relation each see the	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  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  Potential impacts  Proposed management controls  Duration	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes  Wastes and Emissions: Impacts on coastlines or landforms.  N/A  N/A  N/A	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relation each see the	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  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  Potential impacts  Proposed management controls  Duration  Application ranking	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes  Wastes and Emissions: Impacts on coastlines or landforms. N/A N/A N/A N/A N/A	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant in the marshe studies required on impacts or mitigation?  What is the level of public concern?  Ranking of potential significance  Justification for reduced the marshe significance.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  No  Medium  Low  anking  s, karst features or other unique
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	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes  Wastes and Emissions: Impacts on coastlines or landforms.  N/A  N/A  N/A	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant i  Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relation each see the	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  No  Medium  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  Potential impacts  Proposed management controls  Duration  Application ranking	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes  Wastes and Emissions: Impacts on coastlines or landforms. N/A N/A N/A N/A N/A	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant in the marshe studies required on impacts or mitigation?  What is the level of public concern?  Ranking of potential significance  Justification for reduced the marshe significance.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  No  Medium  Low  anking  s, karst features or other unique
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	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes  Wastes and Emissions: Impacts on coastlines or landforms. N/A N/A N/A N/A N/A	land. 24 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below. A thave a significant in that is the level of public concern?  Ranking of potential significance  Justification for reduced in the concern.	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  No  Medium  Low  anking  s, karst features or other unique
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	NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience  Uncertain  Partly Yes  Wastes and Emissions: Impacts on coastlines or landforms. N/A N/A N/A N/A N/A	land. 24 in relation to EPB essment on each se Macquarie Marshe Macquarie Marshe king in wetland area es as noted below. A thave a significant in that is the level of public concern?  Ranking of potential significance  Justification for relations, alpine areas	parate project (APO) to determine if there is.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  No  Medium  Low  anking  s, karst features or other unique

How resilient is the environment to cope with impacts?  Can the impacts be reversed?  N/A  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?  N/A  N/A  N/A  N/A	What is the level of public concern?  Ranking of potential significance  Justification for ranking  rosion prone areas, areas with slopes of greater than 18 degrees.
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  N/A  Application ranking  What is the confidence in predicting  N/A	concern?  Ranking of N/A potential significance  Justification for ranking
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	concern?  Ranking of N/A potential significance  Justification for ranking
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  N/A  N/A  N/A	Ranking of potential significance  Justification for ranking
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  N/A  N/A  N/A	potential significance  Justification for ranking
Do the operations comply with standards, plans, policies?  Criteria Wastes & Emissions: Impacts on elements of the proposed management controls N/A  Proposed management controls N/A  Duration N/A  Application ranking N/A  What is the confidence in predicting N/A	significance  Justification for ranking
Do the operations comply with standards, plans, policies?  Criteria Wastes & Emissions: Impacts on el Potential impacts N/A  Proposed management controls N/A  Duration N/A  Application ranking N/A  What is the confidence in predicting N/A	Justification for ranking
Do the operations comply with standards, plans, policies?  Criteria Wastes & Emissions: Impacts on elements of the proposed management controls N/A  Proposed management controls N/A  Duration N/A  Application ranking N/A  What is the confidence in predicting N/A	Justification for ranking
Do the operations comply with standards, plans, policies?  Criteria Wastes & Emissions: Impacts on elements of the proposed management controls N/A  Proposed management controls N/A  Duration N/A  Application ranking N/A  What is the confidence in predicting N/A	
standards, plans, policies?  Criteria Wastes & Emissions: Impacts on enterpretation of the potential impacts  Proposed management controls N/A  Duration N/A  Application ranking N/A  What is the confidence in predicting N/A	rosion prone areas, areas with slopes of greater than 18 degrees.
Criteria     Wastes & Emissions: Impacts on entropy       Potential impacts     N/A       Proposed management controls     N/A       Duration     N/A       Application ranking     N/A       What is the confidence in predicting     N/A	rosion prone areas, areas with slopes of greater than 18 degrees.
Potential impacts N/A Proposed management controls N/A Duration N/A Application ranking N/A What is the confidence in predicting N/A	rosion prone areas, areas with slopes of greater than 18 degrees.
Proposed management controls  N/A  Duration  N/A  Application ranking  N/A  What is the confidence in predicting  N/A	
Proposed management controls  N/A  Duration  N/A  Application ranking  N/A  What is the confidence in predicting  N/A	
Duration N/A Application ranking N/A What is the confidence in predicting N/A	
Application ranking N/A What is the confidence in predicting N/A	
What is the confidence in predicting N/A	
impacts?	Are further N/A
mpacts:	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
can the impacts be reversed:	
	potential
	significance
Can the impacts be mitigated? N/A	Justification for ranking
Do the operations comply with N/A	
standards, plans, policies?	
·	uhaidanaa ar alin araas
Criteria Wastes & Emissions: Impacts on su	ubsidence or silp areas.
Potential impacts There will be no impact to the nea	rby Wetlands during this proposed short drilling program. Drilling to be
conducted in the dry conditions.	
Draw and management controls Class up any miner chills immedia	taly and dispers of any contaminated materials to an appropriately
	tely and dispose of any contaminated materials to an appropriately
managed licenced facility.	
NON-CEA triggered by proximity o	f Ramsar wetland.
Pre-referral meeting with DCCEEW	on 28/3/2024 in relation to EPBC matters due proximity of Ramsar
	rtake self-assessment on each separate project (APO) to determine if there
will be a significant impact to the \	
	vvetialius aliu iviacquarie iviaisiles.
Self-Assessment outcomes:	
	n around working in wetland areas in times of flood. Additional care to be
taken around endangered and vuli	nerable species as noted below. Avoid native vegetation, drainages and
waterways. Outcome = proposed v	works will not have a significant impact on EPBC Matters
Duration 7-10	
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 Medium Resilience	What is the Medium
cope with impacts?	level of public
	concern?
Can the impacts be reversed? Uncertain	Ranking of Low
Can the impacts be reversed: Officertain	
	potential
	significance
Can the impacts be mitigated? Partly	Justification for ranking
and the impacts of integration   i didy	
Do the operations comply with Yes	
Do the operations comply with standards, plans, policies?  Yes	
Do the operations comply with standards, plans, policies?  Yes	reas with acid sulphate, sodic or highly permeable soils.
Do the operations comply with standards, plans, policies?  Yes	reas with acid sulphate, sodic or highly permeable soils.
Do the operations comply with standards, plans, policies?  Criteria Wastes & Emissions: Impacts on all Potential impacts  SOIL	
Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  SOIL  There are no acid sulfate soils with	nin this area.
Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  SOIL  There are no acid sulfate soils with	

Proposed management controls	WASTE  Drill core will be removed from site to a Compa be removed from site. The collar will be capped removed from site at end of drilling program. D cemented from at least 18m to 1m from surface may need to be deeper depending upon condit previous drillholes in this area. Subsoil and top	I and area made safue to groundwater to ensure water do ions in the hole, how	e with all rubbish and drilling equipment being shallow in this area, holes will be oes not cross into different strata. This wever 18m has been appropriate in
Duration	7-10		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
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	N/A		
standards, plans, policies? Criteria	Wastes & Emissions: Impacts on areas with salin	 nity or notential cali	nity problems
Potential impacts	There will be no impact to the nearby Wetlands during this proposed short drilling program. Drilling to be conducted in the dry conditions.  GW  Groundwater sources should not be adversely affected by the proposed drilling.  The proposed drilling is located within the Macquarie Catchment area and is classified in the proposed as being of low-moderate to moderate vulnerability. Groundwater is known to sit at around 5-15m below existing ground level across this area. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata.		rosed drilling. rea and is classified in the proposed area is known to sit at around 5-15m below be utilised to ensure that water is ng strata.
Proposed management controls	managed licenced facility. GW management Groundwater encountered during drilling will b Company have drilled several holes in this area There is a known water bore within the propose	-	
Duration	7-10		
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 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?	No	Justification for r	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with deg	raded or contamina	ited land.
Potential impacts	There will be no impact to the nearby Wetlands conducted in the dry conditions.		
	conducted in the dry conditions.		

Proposed management controls	Clean up any minor spills immediately and disponding managed licenced facility.  WASTE  Drill core will be removed from site to a Compai be removed from site. The collar will be capped removed from site at end of drilling program. Disponding commander to be deeper depending upon condition previous drillholes in this area. Subsoil and tops	ny storage facility. O and area made safu ue to groundwater e to ensure water do ons in the hole, hov	Once drilling is complete, all materials will e with all rubbish and drilling equipment being shallow in this area, holes will be pes not cross into different strata. This wever 18m has been appropriate in
Duration	7-10		
Application ranking	Negligible	Aug fronthau	NI/A
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
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 ra	anking
Do the operations comply with standards, plans, policies?	N/A		
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 nearby Wetlands conducted in the dry conditions.	during this propose	ed short drilling program. Drilling to be
	managed licenced facility.  NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-asse will be a significant impact to the Wetlands and Self-Assessment outcomes:  Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not	44 in relation to EPB essment on each se Macquarie Marshe king in wetland area es as noted below.	parate project (APO) to determine if there s.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
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 ra	anking
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Vegetation: Any clearing or modification of vegovegetation & habitat for species of conservation	n significance).	
Potential impacts	The area is predominantly open grazing land wi and do not need to be disturbed for this drilling		n. Any areas of vegetation will be avoided
Proposed management controls	Any areas of vegetation will be avoided.  Management controls/ proximity of Macquarie Proposed works will be undertaken in open agri from any vegetated areas where species are mo sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.	cultural land, rotati ore likely. Drilling wi Close consultation at access conditions	Il only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be

	T =		
Duration	7-10		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	Uncertain
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Medium
	ivieulum kesilience		Ivieuluiii
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Medium
		potential	
		significance	
Can the impacts be mitigated?	No	Justification for r	anking
Do the operations comply with	Yes	Impact on Ramsa	r wetland.
standards, plans, policies?			
Criteria	Threatened Fauna Species: Any adverse effect of	on the life cycle of any threatened species such that a via	
Citicita	local population of the species is likely to be pla		
Detected in a sta		•	
Potential impacts	MNES - 29 Threatened species, 4 Threatened Ed	•	· .
	Of the 29 threatened species the Curlew Sandp	•	
	considered critically endangered. The Curlew Sa	andpiper, Swift Parr	ot and Plains Wanderer are all classified as
	endangered for NSW on the link to further info	mation from the M	NES search. The Curlew is migratory and if
	sighted will be reported to the Department for	Environment. This s	pecies is not known to breed in Australia,
	therefore will not be at its most vulnerable if sig	hted. Proposed wo	rks will be undertaken in open agricultural
	land, away from vegetated areas where species	•	
	NSW – no waterways will be affected by this pro		
	The 4 threatened ecological communities show		Woodlands of the Darling Riverine Plains
	I -		_
	and the Brigalow Belt South Bioregions, Poplar		
	Woodlands communities as Endangered and Co		·
	Woodlands and Derived Native Grasslands of So		
	occur within this area. All proposed works has b	een designed to av	oid any native vegetation and close
	consultation with landholders on access routes	is maintained. Thes	e ecological communities should they be
	present will not be adversely affected.		
	The 9 listed migratory species has the Curlew Sa	andpiper as critically	endangered – however the link to this
	species differs stating for NSW this is endangered	ed.	
	The Macquarie Marshes Reserve is located adja		he proposed drilling area. When the
	marshes occasionally flood the proposed drilling		· · ·
	1	=	
	in times of flood. This proposed drilling can only		ing dry conditions at which time the
	threatened species will likely be within the main		
Proposed management controls	Drilling during dry conditions only, the sites will		
	with the landholders will continue regularly price	or to proposed drilli	ng to ensure that access conditions are
	favourable.		
	Nationally important wetland		
	Pre-referral meeting with DCCEEW on 28/3/202	4 in relation to EPB	C matters due proximity of Ramsar
	wetland. Outcome: ACGH undertake self-assess	ment on each sepa	rate project (APO) to determine if there
	will be a significant impact to the Wetlands and	Macquarie Marshe	s. A self-assessment document has been
	completed, with the outcome confirming that t	here will not be a si	gnificant impact to the Wetlands and
	Macquarie Marshes, sufficient mitigating proto		-
	sensitivities.	oois are in place to	and a real control of recommendations and
	Self-Assessment outcomes:		
		to the other decision	and a state of the sale Additional according to
	Additional precautions to be taken around work	•	
	taken around endangered and vulnerable speci		
	waterways. Outcome = proposed works will not	t have a significant i	mpact on EPBC Matters
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	Uncertain
impacts?		studies	
-		required on	
		impacts or	
		mitigation?	
How recilions is the anniverse to	LouPaciliance	_	Madium
How resilient is the environment to	LowResilience	What is the	Medium
cope with impacts?		level of public	
	<u> </u>	concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Medium
		potential	
		significance	
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with	Yes	Impact on Macqu	
standards, plans, policies?		,	
standards, plans, ponties:	1	ı	

Criteria	Threatened Flora Species: Any adverse effect or local population of the species is likely to be pla	•	
Potential impacts	MNES - 29 Threatened species, 4 Threatened Ed Of the 29 threatened species the Curlew Sandp considered critically endangered. The Curlew Sa endangered for NSW on the link to further inforsighted will be reported to the Department for therefore will not be at its most vulnerable if sigland, away from vegetated areas where species NSW — no waterways will be affected by this proposed with the Brigalow Belt South Bioregions, Poplar Woodlands communities as Endangered and Co Woodlands and Derived Native Grasslands of Scoccur within this area. All proposed works has be consultation with landholders on access routes present will not be adversely affected.  The 9 listed migratory species has the Curlew Scipped Scippe	iper, Swift Parrot, Pandpiper, Swift Parrot Parrot The Mendpiper, Swift Parrot The Mendpiper, Swift Parrot The Mendpiper, Swift Parrot The Mendpiper and Mendpiper as critically ed.  Condibah-Black Box Box Grassy Woodlar The Mendpiper as critically ed.  Cent to the east of 18 g area would be affer to be conducted duri	lains Wanderer, Silver Perch are ot and Plains Wanderer are all classified as INES search. The Curlew is migratory and if species is not known to breed in Australia, orks will be undertaken in open agricultural e Silver Perch is classified as Vulnerable in a Woodlands of the Darling Riverine Plains and on Alluvial Plains and Weeping Myall accur within the area. Grey Box Grassy alia as Endangered and Communities may oid any native vegetation and close are ecological communities should they be an endangered — however the link to this the proposed drilling area. When the ected. Site access will not be undertaken
Proposed management controls	threatened species will likely be within the main Drilling during dry conditions only, the sites will with the landholders will continue regularly price favourable.  Nationally important wetland Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH undertake self-assess will be a significant impact to the Wetlands and completed, with the outcome confirming that to Macquarie Marshes, sufficient mitigating protos sensitivities.  Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable specifications waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agrifrom any vegetated areas where species are mostites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.	not be accessed due to proposed drillication to EPB ament on each sepa Macquarie Marshe there will not be a sicols are in place to exing in wetland area es as noted below. It have a significant is icultural land, rotatione likely. Drilling wire Close consultation at access conditions	C matters due proximity of Ramsar rate project (APO) to determine if there is. A self-assessment document has been gnificant impact to the Wetlands and ensure management of identified risks and is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters ing cropping and grazing land and away ill only occur during dry conditions, the with the landholders will continue is are favourable. No waterways will be
Duration	7-10		
Application ranking	7-10 Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	Uncertain
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Medium
Can the impacts be reversed?	Uncertain	Ranking of potential significance	Medium
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with standards, plans, policies?	Yes	Impact on Macqu	
Criteria	Areas of outstanding biodiversity value/Critical biodiversity value under the Biodiversity Conservisheries Management Act 1994.	rvation Act 2016 b	areas declared critical habitat under the
Potential impacts	There are no areas of critical habitat/area of ou	tstanding biodivers	ity within the approval area.
Proposed management controls	Extreme care will be taken on this site to avoid levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and	uncontrolled fires. Notes contact details working high standards and	Weather conditions and bush fire alert will be readily available for the duration of d processes will be in place to minimise
Duration	7-10		

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 cope with impacts?	Medium Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Endangered ecological community or critically of is likely to have an adverse effect on the occurrence is likely to be placed at risk of extinous modify the composition of the ecological community of extinction.	ne extent of the eco	logical community such that its local is likely to substantially and adversely
Potential impacts	There will be no impact to any of the four poter occur within the proposed drilling area on the N Riverine Plains and the Brigalow Belt South Bior Weeping Myall Woodlands.	MNES search; Coolib	oah – Black Box Woodlands of the Darling
Proposed management controls	All proposed drilling is within open paddocks. D Nationally important wetland Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH undertake self-assess will be a significant impact to the Wetlands and completed, with the outcome confirming that t Macquarie Marshes, sufficient mitigating proto sensitivities. Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agr from any vegetated areas where species are mo sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure th affected by this proposed drilling. As a minimur any drainage system.	24 in relation to EPB sment on each sepa I Macquarie Marshe here will not be a si cols are in place to design in wetland area es as noted below. At have a significant i icultural land, rotatione likely. Drilling wire Close consultation at access conditions	C matters due proximity of Ramsar rate project (APO) to determine if there is. A self-assessment document has been gnificant impact to the Wetlands and ensure management of identified risks and is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters ing cropping and grazing land and away ill only occur during dry conditions, the with the landholders will continue is are favourable. No waterways will be
Duration	7-10		
Application ranking  What is the confidence in predicting impacts?	Negligible High	Are further studies required on impacts or mitigation?	Uncertain
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Medium
Can the impacts be reversed?	Uncertain	Ranking of potential significance	Medium
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with standards, plans, policies?	Yes	Impact on Macqu	<u> </u>
Criteria	Habitat of a threatened species or ecological co	mmunity	
Potential impacts	There will be no impact to any threatened spec open grazing paddocks.	ies or ecological cor	mmunity as all drilling will be progressed in

Proposed management controls	All proposed drilling is within open paddocks. D Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome a proposed works will not	king in wetland area	s in times of flood. Additional care to be Avoid native vegetation, drainages and
	waterways. Outcome = proposed works will not	nave a significant ii	mpact on EPBC Matters
	Management controls		
	Proposed works will be undertaken in open agri	cultural land, rotati	ng cropping and grazing land and away
	from any vegetated areas where species are mo	·	
	I		- ·
	sites will not be accessed during times of flood.	Close consultation	with the landholders will continue
	regularly prior to proposed drilling to ensure that	at access conditions	are favourable. No waterways will be
	affected by this proposed drilling. As a minimun	n requirement all dr	illing will be completed at least 40m from
	1	irrequirement an ar	ming win be completed at least form from
	any drainage system.		
Duration	7-10		
Application ranking	Negligible		
			T
What is the confidence in predicting	High	Are further	Uncertain
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Medium
	iviculum resilience		ivicuiuiii
cope with impacts?		level of public	
		concern?	
Can the impacts be recovered	Uncertain	Ranking of	Medium
Can the impacts be reversed?	Uncertain		Medium
		potential	
		significance	
0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	P- II	_	
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with	Yes	Impact on Macqu	arie Marshes
standards, plans, policies?			
Criteria	Habitat of protected aquatic species or those w	ith conservation sta	tus.
Potential impacts	There will be no impact to any threatened speci	es or ecological con	nmunity as all drilling will be progressed in
	l : : : : : : : : : : : : : : : : : : :	.co o. coo.og.ou. co	
	open grazing paddocks.		
Proposed management controls	All proposed drilling is within open paddocks. D	rillholes can be mov	red to avoid any and all vegetation.
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	N/A
impacts?		studies	
impacts.			
		required on	
		impacts or	
		mitigation?	
Hammarilla at the theory of the state	Medium Resilience	What is the	Low
	iviedium kesilience		LOW
How resilient is the environment to		المانيما مؤسيالا	
How resilient is the environment to cope with impacts?		level of public	
cope with impacts?	Unandein	concern?	
	Uncertain		Low
cope with impacts?	Uncertain	concern?	Low
cope with impacts?	Uncertain	concern? Ranking of potential	Low
cope with impacts?  Can the impacts be reversed?		concern? Ranking of potential significance	
Can the impacts be reversed?  Can the impacts be mitigated?	Partly	concern? Ranking of potential	
cope with impacts?  Can the impacts be reversed?		concern? Ranking of potential significance	
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with	Partly	concern? Ranking of potential significance	
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?	Partly N/A	concern? Ranking of potential significance Justification for ra	anking
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with	Partly	concern? Ranking of potential significance Justification for ra	anking
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?	Partly N/A	concern? Ranking of potential significance Justification for ra	anking y Conservation Act 2016. Includes: a.
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?	Partly N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of ha	concern? Ranking of potential significance Justification for ra	anking  y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria	Partly N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv	concern? Ranking of potential significance Justification for ra dule 4 of Biodiversit bitat and native ver	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require vegore.	concern? Ranking of potential significance Justification for rand dule 4 of Biodiversit sitiat and native very vasion and establish etation clearance. N	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria	Partly N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv	concern? Ranking of potential significance Justification for rand dule 4 of Biodiversit sitiat and native very vasion and establish etation clearance. N	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require vegrehabilitated within a couple of months and so in the small drilling program.	concern? Ranking of potential significance Justification for rand dule 4 of Biodiversit bitat and native very vasion and establish etation clearance. N	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.  Minor areas of disturbance will be nvisaged.
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Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require veg rehabilitated within a couple of months and so of Drill site locations are determined based on are undertaken as soon as is reasonably practicable application.  7-10  Negligible	concern? Ranking of potential significance Justification for rand dule 4 of Biodiversit abitat and native very vasion and establish etation clearance. Naminimal impact is end a of least impact to but within the time  Are further studies required on	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.  Minor areas of disturbance will be envisaged.  the environment. Rehabilitation will be eframe of this drilling approval
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Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require veg rehabilitated within a couple of months and so of Drill site locations are determined based on are undertaken as soon as is reasonably practicable application.  7-10  Negligible	concern? Ranking of potential significance Justification for rand dule 4 of Biodiversit abitat and native very vasion and establish etation clearance. Naminimal impact is end a of least impact to but within the time  Are further studies required on	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.  Minor areas of disturbance will be envisaged.  the environment. Rehabilitation will be eframe of this drilling approval
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?	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require vegrehabilitated within a couple of months and so Drill site locations are determined based on are undertaken as soon as is reasonably practicable application.  7-10  Negligible  High	concern? Ranking of potential significance Justification for rand dule 4 of Biodiversital abitat and native very vasion and establish etation clearance. National impact is ended to but within the time  Are further studies required on impacts or mitigation?	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.  Ainor areas of disturbance will be envisaged.  the environment. Rehabilitation will be eframe of this drilling approval
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require veg rehabilitated within a couple of months and so of Drill site locations are determined based on are undertaken as soon as is reasonably practicable application.  7-10  Negligible	concern? Ranking of potential significance Justification for radiule 4 of Biodiversity abitat and native version and establish etation clearance. National impact is ended to but within the time.  Are further studies required on impacts or mitigation? What is the	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.  Minor areas of disturbance will be envisaged.  the environment. Rehabilitation will be eframe of this drilling approval
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?	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require vegrehabilitated within a couple of months and so Drill site locations are determined based on are undertaken as soon as is reasonably practicable application.  7-10  Negligible  High	concern? Ranking of potential significance Justification for rand dule 4 of Biodiversital abitat and native very vasion and establish etation clearance. National impact is ended to but within the time  Are further studies required on impacts or mitigation?	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.  Ainor areas of disturbance will be envisaged.  the environment. Rehabilitation will be eframe of this drilling approval
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	Partly  N/A  Key Threatening Processes: As outlined in Schedalteration, removal, clearly or degradation of hac. removal of dead wood and dead trees d. inv.  The small drilling program does not require vegrehabilitated within a couple of months and so Drill site locations are determined based on are undertaken as soon as is reasonably practicable application.  7-10  Negligible  High	concern? Ranking of potential significance Justification for radiule 4 of Biodiversity abitat and native version and establish etation clearance. National impact is ended to but within the time.  Are further studies required on impacts or mitigation? What is the	y Conservation Act 2016. Includes: a. getation b. loss of hollow bearing trees ment of exotic species.  Ainor areas of disturbance will be envisaged.  the environment. Rehabilitation will be eframe of this drilling approval

	T		
Can the impacts be reversed?	Uncertain	Ranking of potential	Low
		significance	
Can the impacts be mitigated?	No	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Barriers to movement of fauna: Any potential to conservation significance) or create a barrier to	•	e or disturb fauna (including fauna of
Potential impacts	The small drilling program does not require vego	etation clearance. N	Ninor areas of disturbance will be
	rehabilitated within a couple of months and so i	minimal impact is e	nvisaged.
	DISTURBANCE		
	This application 600sqm		
	ACCESS		
	Access to proposed drilling locations will be alor	_	
	necessary, in line with relevant landholder speci	incations. No new t	racks are required to be constructed.
Proposed management controls	Drill site locations are determined based on area of least impact to the environment. Rehabilitation will		the environment Rehabilitation will be
r roposed management controls	undertaken as soon as is reasonably practicable but within the timeframe of this drilling approval		
	application.	. Dat Within the time	Traine of this arining approval
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	o a	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	Ecological & Biosecurity Impacts: Any threat to t	the biological divers	ity or ecological integrity of an ecological
Potential impacts	community.  No impact envisaged		
Potential impacts	BIODIVERSITY Management		
	The area is not located within any areas of high	hiodiversity, howey	er it is listed as a Wetland. This area is
	occasionally flooded if the Macquarie Marshes h	•	
	during times of flood. Close consultation with th	-	
	proposed drilling to ensure that access condition	ns are favourable.	
Proposed management controls	Extreme care will be taken on this site to avoid a		
	levels will be monitored. Local emergency service	ces contact details v	vill be readily available for the duration of
	levels will be monitored. Local emergency service the activity. All equipment will be maintained to	ces contact details v o high standards and	vill be readily available for the duration of d processes will be in place to minimise
	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and	ces contact details v o high standards and	vill be readily available for the duration of d processes will be in place to minimise
	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes:	ces contact details v o high standards and I equipped to minim	vill be readily available for the duration of I processes will be in place to minimise iise fire risk.
	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes:  Additional precautions to be taken around work	ces contact details von high standards and lequipped to minim king in wetland area	vill be readily available for the duration of diprocesses will be in place to minimise lise fire risk.  s in times of flood. Additional care to be
	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes:  Additional precautions to be taken around work taken around endangered and vulnerable species.	ces contact details von high standards and lequipped to minim king in wetland area es as noted below. A	vill be readily available for the duration of diprocesses will be in place to minimise lise fire risk.  s in times of flood. Additional care to be avoid native vegetation, drainages and
	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes:  Additional precautions to be taken around work	ces contact details von high standards and lequipped to minim king in wetland area es as noted below. A	vill be readily available for the duration of diprocesses will be in place to minimise lise fire risk.  s in times of flood. Additional care to be avoid native vegetation, drainages and
Duration	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes:  Additional precautions to be taken around work taken around endangered and vulnerable species.	ces contact details von high standards and lequipped to minim king in wetland area es as noted below. A	vill be readily available for the duration of diprocesses will be in place to minimise lise fire risk.  s in times of flood. Additional care to be avoid native vegetation, drainages and
Duration Application ranking	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes:  Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not	ces contact details von high standards and lequipped to minim king in wetland area es as noted below. A	vill be readily available for the duration of diprocesses will be in place to minimise lise fire risk.  s in times of flood. Additional care to be avoid native vegetation, drainages and
	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes:  Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10	ces contact details von high standards and lequipped to minim king in wetland area es as noted below. A	vill be readily available for the duration of diprocesses will be in place to minimise lise fire risk.  s in times of flood. Additional care to be avoid native vegetation, drainages and
Application ranking	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible	ces contact details von high standards and lequipped to minim king in wetland area es as noted below. A have a significant in the least and least	will be readily available for the duration of a processes will be in place to minimise sise fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and mpact on EPBC Matters
Application ranking What is the confidence in predicting	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible	ces contact details von high standards and lequipped to minim king in wetland area es as noted below. A have a significant in the further	will be readily available for the duration of a processes will be in place to minimise sise fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and mpact on EPBC Matters
Application ranking What is the confidence in predicting	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible	ces contact details very being standards and lequipped to minim king in wetland area es as noted below. A have a significant in the contact of the contact o	will be readily available for the duration of a processes will be in place to minimise sise fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and mpact on EPBC Matters
Application ranking What is the confidence in predicting	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible	ces contact details very being standards and lequipped to minimize the control of	will be readily available for the duration of a processes will be in place to minimise sise fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and mpact on EPBC Matters
Application ranking What is the confidence in predicting	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible	ces contact details very being standards and lequipped to minimized in wetland area es as noted below. A significant in the standards area further studies required on impacts or	will be readily available for the duration of a processes will be in place to minimise sise fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and mpact on EPBC Matters
Application ranking  What is the confidence in predicting impacts?	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible High	ces contact details very being standards and lequipped to minimize the content of	vill be readily available for the duration of diprocesses will be in place to minimise also fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters  N/A
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible High	ces contact details very bright standards and lequipped to minim king in wetland area es as noted below. A significant in the level of public concern?	vill be readily available for the duration of diprocesses will be in place to minimise also fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters  N/A
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10 Negligible High	ces contact details very being standards and lequipped to minimize the content of	vill be readily available for the duration of diprocesses will be in place to minimise also fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters  N/A
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience	ces contact details very bright standards and lequipped to minimize the content of the content o	vill be readily available for the duration of diprocesses will be in place to minimise also fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters  N/A
Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	levels will be monitored. Local emergency service the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable species waterways. Outcome = proposed works will not 7-10  Negligible  High  Medium Resilience	ces contact details very being standards and lequipped to minimize the content of	vill be readily available for the duration of diprocesses will be in place to minimise dise fire risk.  Is in times of flood. Additional care to be avoid native vegetation, drainages and impact on EPBC Matters  N/A  Low

Do the operations comply with standards, plans, policies?	Yes		
Criteria	Ecological & Biosecurity Impacts: Creates a bios	। security risk or intro	duces genetically modified organisms into
5.115.112	an area. Includes impacts from the introduction		
	pests and diseases, d. animal diseases, e. no		
Potential impacts	No impact envisaged	,	, ,
Proposed management controls	Extreme care will be taken on this site to avoid	uncontrolled fires. \	Weather conditions and bush fire alert
	levels will be monitored. Local emergency servi		
	the activity. All equipment will be maintained to	o high standards and	d processes will be in place to minimise
	risk. All vehicles are appropriately prepared and		
	Self-Assessment outcomes:		
	Additional precautions to be taken around work	king in wetland area	s in times of flood. Additional care to be
	taken around endangered and vulnerable speci-	es as noted below. A	Avoid native vegetation, drainages and
	waterways. Outcome = proposed works will not	t have a significant i	mpact on EPBC Matters
Duration	7-10		
Application ranking	Negligible	1	
What is the confidence in predicting	High	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Low
cope with impacts?		level of public	
On that the same	I the second sec	concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
Courthy invested by millionted	Double	significance	- Alice
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?	Foological & Diagogurity Impacts Likely to course	 	ing wiels
Criteria	Ecological & Biosecurity Impacts: Likely to cause	e a significant bushi	ire risk.
Potential impacts	No impact envisaged		
Proposed management controls	Extreme care will be taken on this site to avoid		
	levels will be monitored. Local emergency servi		
	the activity. All equipment will be maintained to		
Demotion	risk. All vehicles are appropriately prepared and	a equipped to minim	nise fire risk.
Duration	7-10		
Application ranking	Negligible	A C .th	21/2
What is the confidence in predicting	High	Are further	N/A
impacts?		atualia.	•
•		studies	
·		required on	
·		required on impacts or	
	LouBailiana	required on impacts or mitigation?	Madium
How resilient is the environment to	LowResilience	required on impacts or mitigation? What is the	Medium
	LowResilience	required on impacts or mitigation? What is the level of public	Medium
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	LowResilience	required on impacts or mitigation? What is the level of public concern?	Medium Medium
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?	No	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Medium
How resilient is the environment to cope with impacts?  Can the impacts be reversed?  Can the impacts be mitigated?	No Partly	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Medium 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	No	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Medium 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?	No Partly N/A	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relimpact om Macqui	Medium anking uarie Marshes.
How resilient is the environment to cope with impacts?  Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with	No  Partly N/A  Community Resources: Any degradation of infra	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relimpact om Macqui	Medium anking uarie Marshes.
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	No  Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for real impact om Macquastructure or signification	Medium  anking  parie Marshes.  cant increase in the demand for services
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	No  Partly N/A  Community Resources: Any degradation of infra and infrastructure resources. There will be no impact to the demand or use o	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for real impact om Macquastructure or signification	Medium  anking  parie Marshes.  cant increase in the demand for services
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	No  Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relimpact om Macquestructure or significant of the local services and	Medium  anking  parie Marshes.  cant increase in the demand for services
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources. There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relimpact om Macquestructure or significant of the local services and	Medium  anking  parie Marshes.  cant increase in the demand for services
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources. There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2006 EAs - ROCCs provided.	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for relimpact om Macquestructure or significant of the local services and	Medium  anking  uarie Marshes.  cant increase in the demand for services
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for railmact om Macquistructure or signification for local services and	Medium  anking  uarie Marshes.  cant increase in the demand for services resources for this drill program
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS Access to proposed drilling locations will be also	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services resources for this drill program  d along the edges of paddocks if
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS Access to proposed drilling locations will be also necessary, in line with relevant landholder specific proposed.	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services resources for this drill program  d along the edges of paddocks if
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	Partly  N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE  This application 600sqm - Total cumulative 2000 EAs - ROCCs provided.  ACCESS  Access to proposed drilling locations will be also necessary, in line with relevant landholder spect TIMING/NOISE	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services resources for this drill program  d along the edges of paddocks if
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS Access to proposed drilling locations will be also necessary, in line with relevant landholder spect TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services  resources for this drill program  d along the edges of paddocks if
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS Access to proposed drilling locations will be also necessary, in line with relevant landholder spect TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week 26 April to 17 Feb 2025 - 7 to 10 weeks	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services  resources for this drill program  d along the edges of paddocks if
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS Access to proposed drilling locations will be also necessary, in line with relevant landholder spect TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services  resources for this drill program  d along the edges of paddocks if
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS Access to proposed drilling locations will be also necessary, in line with relevant landholder spect TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week 26 April to 17 Feb 2025 - 7 to 10 weeks Access agreements in place.	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services  resources for this drill program  d along the edges of paddocks if
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	Partly N/A  Community Resources: Any degradation of infra and infrastructure resources.  There will be no impact to the demand or use of DISTURBANCE This application 600sqm - Total cumulative 2000 EAs - ROCCs provided. ACCESS Access to proposed drilling locations will be also necessary, in line with relevant landholder spect TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week 26 April to 17 Feb 2025 - 7 to 10 weeks	required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rail Impact om Macquistructure or signification of potential significance.	Medium  anking  uarie Marshes.  cant increase in the demand for services  resources for this drill program  d along the edges of paddocks if

What is the confidence in predicting	High	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium 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	N/A		
standards, plans, policies?			
Criteria	Community Resources: Any diversion of resource	es to the detriment	t of other communities or natural systems.
Potential impacts	No diversion of resources required.		,
Totaliai iiipacis	EARTHWORK/LANDUSE		
	The land is currently utilised for agricultural gra	zing nurnoses. The l	land use will not be changed during or
	after the proposed drilling works.	zing purposes. The i	and use will not be changed during or
	Earthworks and vegetation clearance is not req	uired for this drilling	nrogram Sites are relatively flat and
	open.	an ea for this arming	5 program. Sites are relatively flat and
	ope		
Proposed management controls	Work will be undertaken in dry conditions and i	not during wet weat	ther.
oposou management controls	Management controls	Tot dailing tree treat	
	Proposed works will be undertaken in open agr	icultural land rotati	ng cronning and grazing land and away
	from any vegetated areas where species are mo		
	sites will not be accessed during times of flood.		_ · · · · · · · · · · · · · · · · · · ·
	regularly prior to proposed drilling to ensure th		
	affected by this proposed drilling. As a minimur		
	any drainage system.	ir requirement an ar	ming will be completed at least 4011 from
	Macquarie Marshes management controls.		
	Drilling will not be undertaken during wet weat	har avants Should t	there he elevated water levels this drilling
	will not be undertaken until water subsides. Gro		
	methods ensure that water is contained in the		
	strata. Casing and environmentally friendly drill		5
	containing any waters that may be encountered	_	_
	agricultural cropped and grazing paddocks, whi		= : = :
	on appropriate and best access to each propose	•	-
	favourable works are postponed until suitable of		
	ground conditions will be taken prior to underta		artional caution to time of year and
	ground conditions will be taken prior to underta	aking the works.	
Duration	7-10		
Application ranking	, 10		
What is the confidence in predicting	High	Are further	No
impacts?		studies	110
impacts:		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Medium
cope with impacts?	Wicalam Nesmente	level of public	Mediani
cope with impacts:		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
can the impacts be reversed?	Oncertain	potential	LOW
		significance	
Can the impacts be mitigated?	Partly	Justification for ra	l anking
	Partly	Justification for r	alivilia
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Natural Poscureos: Any discustion, doubting a	doctruction of ret	ural recourses
	Natural Resources: Any disruption, depletion or		
Potential impacts	The proposed drilling program is not anticipated	a to disrupt, deplete	e, or destroy any natural resources.

Proposed management controls	Work will be undertaken in dry conditions and r	not during wet weat	her.
	Management controls		
	Proposed works will be undertaken in open agr		
	from any vegetated areas where species are mo		- ·
	sites will not be accessed during times of flood.		
	regularly prior to proposed drilling to ensure th		
	affected by this proposed drilling. As a minimun	n requirement all dr	filling will be completed at least 40m from
	any drainage system.		
	Macquarie Marshes management controls.		
	Drilling will not be undertaken during wet weat		
	will not be undertaken until water subsides. Gro		
	methods ensure that water is contained in the		9
	strata. Casing and environmentally friendly drill	-	=
	containing any waters that may be encountered		
	agricultural cropped and grazing paddocks, whi	•	•
	on appropriate and best access to each propose		=
	favourable works are postponed until suitable o		ditional caution to time of year and
	ground conditions will be taken prior to underta	aking the works.	
Duration	7-10		
Application ranking	Negligible		
		Ara furthar	N/A
What is the confidence in predicting impacts?	High	Are further studies	N/A
impacts?		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience		Medium
	Medium Resilience	What is the	iviedium
cope with impacts?		level of public	
Con the immedia he was seed?	Hannette:	concern?	Laur
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	De all	significance	
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies? Criteria	Natural Resources: Any disruption of existing ac	 	a natural resources including forestar
Criteria	farming or extractive industries (or reduction of		
B 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		<u> </u>	landholders and so will not disrupt any
Potential impacts			idilaliolacis alla so will liot alsi apt ally
Potential impacts			ch are used for grazing nurnoses
	existing activities. The drill holes are to be colla	red in paddocks whi	
Proposed management controls		red in paddocks whi	
	existing activities. The drill holes are to be collar Work will be undertaken in dry conditions and r Self-Assessment outcomes:	red in paddocks whi not during wet weat	her.
	existing activities. The drill holes are to be collar Work will be undertaken in dry conditions and r Self-Assessment outcomes: Additional precautions to be taken around work	red in paddocks whi not during wet weat king in wetland area	her. s in times of flood. Additional care to be
	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and r Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speci	red in paddocks whi not during wet weat king in wetland area es as noted below. A	ther.  Is in times of flood. Additional care to be  Avoid native vegetation, drainages and
	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and r Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speciwaterways. Outcome = proposed works will not	red in paddocks whi not during wet weat king in wetland area es as noted below. A	ther.  Is in times of flood. Additional care to be  Avoid native vegetation, drainages and
	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and r Self-Assessment outcomes: Additional precautions to be taken around worl taken around endangered and vulnerable speciwaterways. Outcome = proposed works will not Management controls	red in paddocks whin not during wet weat king in wetland area es as noted below. A have a significant i	ther.  Is in times of flood. Additional care to be  Avoid native vegetation, drainages and  Impact on EPBC Matters
	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and results Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specific waterways. Outcome = proposed works will not Management controls  Proposed works will be undertaken in open agri	red in paddocks whin not during wet weat king in wetland area es as noted below. A have a significant i icultural land, rotati	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  Ing cropping and grazing land and away
	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and reself-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specifications. Outcome = proposed works will not Management controls  Proposed works will be undertaken in open agrifrom any vegetated areas where species are more species.	red in paddocks whin not during wet weat king in wetland area es as noted below. A have a significant i icultural land, rotati pre likely. Drilling wi	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  Ing cropping and grazing land and away II only occur during dry conditions, the
	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and reself-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specifications. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agrifrom any vegetated areas where species are mosites will not be accessed during times of flood.	red in paddocks whin not during wet weat king in wetland area es as noted below. A have a significant i icultural land, rotati pre likely. Drilling wi Close consultation	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  Ing cropping and grazing land and away II only occur during dry conditions, the with the landholders will continue
	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and results and results are to be undertaken in dry conditions and results are to be undertaken around work taken around endangered and vulnerable specifications. Outcome = proposed works will not management controls. Proposed works will be undertaken in open agrifrom any vegetated areas where species are most sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the	red in paddocks whin not during wet weat king in wetland area es as noted below. A chave a significant i icultural land, rotatione likely. Drilling wi Close consultation at access conditions	cher.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be
•	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and reself-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specifications. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agrifrom any vegetated areas where species are mosites will not be accessed during times of flood.	red in paddocks whin not during wet weat king in wetland area es as noted below. A chave a significant i icultural land, rotati ore likely. Drilling wi Close consultation at access conditions	cher.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be
	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and results and results are to be undertaken in dry conditions and results are to be undertaken around work taken around endangered and vulnerable specifications. Outcome = proposed works will not management controls  Proposed works will be undertaken in open agrifrom any vegetated areas where species are most sites will not be accessed during times of flood. The regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum	red in paddocks whin not during wet weat king in wetland area es as noted below. A chave a significant i icultural land, rotati ore likely. Drilling wi Close consultation at access conditions	cher.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be
	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and results and results are to be undertaken in dry conditions and results are to be undertaken around work taken around endangered and vulnerable specifications. Outcome = proposed works will not management controls  Proposed works will be undertaken in open agrifrom any vegetated areas where species are most sites will not be accessed during times of flood. The regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum	red in paddocks whin not during wet weat king in wetland area es as noted below. A chave a significant i icultural land, rotati ore likely. Drilling wi Close consultation at access conditions	cher.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be
Proposed management controls  Duration	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and reself-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specific waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agrifrom any vegetated areas where species are most sites will not be accessed during times of flood. The regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.	red in paddocks whin not during wet weat king in wetland area es as noted below. A chave a significant i icultural land, rotati ore likely. Drilling wi Close consultation at access conditions	cher.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be
Proposed management controls  Duration Application ranking	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and results and in the self-Assessment outcomes:  Additional precautions to be taken around work taken around endangered and vulnerable specific waterways. Outcome = proposed works will not Management controls  Proposed works will be undertaken in open agriffrom any vegetated areas where species are most sites will not be accessed during times of flood. The regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible	red in paddocks whin not during wet weat king in wetland area es as noted below. A chave a significant i icultural land, rotati ore likely. Drilling wi Close consultation at access conditions	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  Ing cropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from
Proposed management controls  Duration Application ranking What is the confidence in predicting	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and reself-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specific waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agrifrom any vegetated areas where species are most sites will not be accessed during times of flood. The regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.	red in paddocks whin not during wet weat wing in wetland area es as noted below. A have a significant in its cultural land, rotatione likely. Drilling wing Close consultation at access conditions in requirement all driver.	cher.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be
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Proposed management controls  Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to	existing activities. The drill holes are to be collai Work will be undertaken in dry conditions and results and in the self-Assessment outcomes:  Additional precautions to be taken around work taken around endangered and vulnerable specific waterways. Outcome = proposed works will not Management controls  Proposed works will be undertaken in open agriffrom any vegetated areas where species are most sites will not be accessed during times of flood. The regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible	red in paddocks whin the paddocks whin the paddocks whin the paddocks whith the paddocks whith the paddocks whith the paddocks are paddocks whith the paddocks whith	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  Ing cropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from
Proposed management controls  Duration Application ranking What is the confidence in predicting impacts?	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specified waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agrified from any vegetated areas where species are mot sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10 Negligible High	red in paddocks whin the paddocks whin the paddocks whin the paddocks whith the paddocks whith the paddocks whith the paddocks are paddocks whith the paddocks whith	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  Ing cropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be illing will be completed at least 40m from
Proposed management controls  Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable speci- waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agri from any vegetated areas where species are mo- sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible  High  Medium Resilience	red in paddocks whin the paddocks whin the paddocks whin the paddocks whith the paddocks whith the paddocks whith the paddocks are paddocks whith the paddocks whith	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from in N/A  N/A
Proposed management controls  Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable specified waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agrified from any vegetated areas where species are mot sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10 Negligible High	red in paddocks whin the paddocks whin the paddocks whin the paddocks whin the paddocks whith the paddocks whith the paddocks are as noted below. A have a significant in the paddocks whith the paddocks w	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  Ing cropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be illing will be completed at least 40m from
Proposed management controls  Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable speci- waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agri from any vegetated areas where species are mo- sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible  High  Medium Resilience	red in paddocks whith the paddocks are paddocks as noted below. A paddock the p	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from in N/A  N/A
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?	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable speci- waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agri from any vegetated areas where species are not sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible  High  Medium Resilience	red in paddocks whith the paddocks are as noted below. At the paddock with the pa	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  In gropping and grazing land and away III only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from N/A  N/A  Medium
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?	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable speci- waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agri from any vegetated areas where species are not sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible  High  Medium Resilience  Uncertain	red in paddocks whith the paddocks are paddocks as noted below. A paddock the p	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  In gropping and grazing land and away III only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from N/A  N/A  Medium
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	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable speci- waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agri from any vegetated areas where species are not sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible  High  Medium Resilience	red in paddocks whith the paddocks are as noted below. At the paddock with the pa	ther.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and mpact on EPBC Matters  In gropping and grazing land and away III only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from N/A  N/A  Medium
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?	existing activities. The drill holes are to be collal Work will be undertaken in dry conditions and it Self-Assessment outcomes: Additional precautions to be taken around work taken around endangered and vulnerable speci- waterways. Outcome = proposed works will not Management controls Proposed works will be undertaken in open agri from any vegetated areas where species are not sites will not be accessed during times of flood. regularly prior to proposed drilling to ensure the affected by this proposed drilling. As a minimum any drainage system.  7-10  Negligible  High  Medium Resilience  Uncertain	red in paddocks whith the paddocks are as noted below. At the paddocks are as in the paddocks are	cher.  Is in times of flood. Additional care to be Avoid native vegetation, drainages and impact on EPBC Matters  In gropping and grazing land and away II only occur during dry conditions, the with the landholders will continue are favourable. No waterways will be cilling will be completed at least 40m from N/A  N/A  Medium  Low  anking

Potential impacts	The Wetlands are identified in the Warren Loca drilling and small footprint will not result in the not declared as designated development in the dry conditions, and access will be discussed in o	degradation of the Warren LEP. The pr	Wetlands. Mineral exploration drilling is roposed works will only be conducted in		
Proposed management controls	Work will be undertaken in dry conditions and				
.,	Nationally important wetland				
	Pre-referral meeting with DCCEEW on 28/3/2024 in relation to EPBC matters due proximity of Ramsar wetland. Outcome: ACGH undertake self-assessment on each separate project (APO) to determine if there				
	will be a significant impact to the Wetlands and	·			
	_ :	•			
	completed, with the outcome confirming that t		-		
	Macquarie Marshes, sufficient mitigating proto	cols are in place to	ensure management of identified risks and		
	sensitivities.				
	Self-Assessment outcomes:				
	Additional precautions to be taken around wor	king in wetland area	as in times of flood. Additional care to be		
		-			
	taken around endangered and vulnerable speci				
	waterways. Outcome = proposed works will no	t have a significant i	impact on EPBC Matters		
	Management controls				
	Proposed works will be undertaken in open agr	icultural land, rotat	ing cropping and grazing land and away		
	from any vegetated areas where species are mo				
	sites will not be accessed during times of flood.				
	_				
	regularly prior to proposed drilling to ensure th				
	affected by this proposed drilling. As a minimur	m requirement all d	rilling will be completed at least 40m from		
	any drainage system.				
	Macquarie Marshes management controls.				
	Drilling will not be undertaken during wet weat	her events Chauld	there he elevated water lovels this drilling		
	will not be undertaken until water subsides. Gr				
	methods ensure that water is contained in the	same strata and do	es not cross to different water bearing		
	strata. Casing and environmentally friendly drill	ling muds are used t	to weight the water to assist with		
	containing any waters that may be encountered	-	=		
	1				
	agricultural cropped and grazing paddocks, whi	-			
	on appropriate and best access to each propose		=		
	favourable works are postponed until suitable of	conditions arise. Ad	ditional caution to time of year and		
	ground conditions will be taken prior to undert	aking the works.			
		_			
Duration	7-10				
Application ranking	Negligible				
What is the confidence in predicting	High	Are further	Uncertain		
	TIIGH		Officertain		
impacts?		studies			
		required on			
		impacts or			
		mitigation?			
How resilient is the environment to	Medium Resilience	What is the	Medium		
	Wedidiii Nesilielice		Wediam		
cope with impacts?		level of public			
		concern?			
Can the impacts be reversed?	Uncertain	Ranking of	Medium		
•		potential			
		significance			
	2		<u> </u>		
Can the impacts be mitigated?	Partly	Justification for r	~		
Do the operations comply with	Yes	Impact on Macqu	uarie Marshes.		
standards, plans, policies?					
Criteria	Sensitive Land Impacts: Impacts on National pa	rks and other areas	reserved or dedicated or acquired under		
	the National Parks and Wildlife Act 1974.				
Potential impacts	N/A				
-					
Proposed management controls	N/A				
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		
	19/5		17/0		
cope with impacts?		level of public			
		concern?			
Can the impacts be reversed?	N/A	Ranking of	N/A		
		potential			
		significance	1		
Can the impacts be mitigated?			anking		
	N/A	Justification for r	anking		
Do the operations comply with	N/A N/A	Justification for r	anking		
Do the operations comply with standards, plans, policies?	·	Justification for r	anking		
	·	Justification for r	anking		

Potential impacts Proposed management controls N/A  Duration N/A  What is the confidence in predicting impacts?  What is the confidence in predicting impacts?  N/A  What is the confidence in predicting impacts?  N/A  What is the confidence in predicting impacts?  N/A  How resilient is the environment to cope with impacts?  Can the impacts be reversed? N/A  Can the impacts be mitigated? Do the operations comply with standards, plans, policies?  Criteria  Management Act 2014, impacts on aquatic reserves or marine parks declared under the Marine Estate Management controls  N/A  Proposed management controls  N/A  What is the confidence in predicting impacts?  N/A  Can the impacts be mitigated? Do the operations comply with standards, plans, policies?  All impacts or mitigation?  N/A  Proposed management controls  N/A  What is the confidence in predicting impacts?  N/A  Can the impacts be mitigated? Do the operations comply with standards, plans, policies?  Can the impacts be mitigated? Do the operations comply with mystic and mystic reserves or marine parks declared under the Marine Estate Management Act 2016.  N/A  N/A  Are further  Suddisciplination  N/A  Are further  N/A  Are further  N/A  Data Banking of potential significance  Proposed management controls  N/A  Suddisciplination or marking  N/A  Suddisciplination or marking  N/A  Proposed management controls  N/A  Suddisciplination or marking  N/A  N/A  Data Banking of potential significance  Sensitive land impacts: Fishing grounds and commercial fish breeding or nursery areas.  Proposed management controls  Sensitive land impacts: Fishing grounds and commercial fish breeding or nursery areas.  Additional care to be taken around worki	Criteria	Vegetation Conservation Act 1997	2016. This includes: nservation Act 1999 onservation Act 2010 Act 2016. c. Exist nas been repealed:	a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement cing conservation agreements that Trust agreements under the
Duration   N/A   Application ranking   N/A   Are further   N/A   Application ranking   Application ranking   Application ranking   Application ranking   Application ran	Potential impacts	N/A		
Application ranking	Proposed management controls	N/A		
Application ranking	Duration	N/A		
What is the confidence in predicting impacts?  What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?  Can the impacts be reversed?  N/A  Do the operations comply with standards, plans, policies?  Criteria  Contential impacts  N/A  Potential impacts  N/A  Application ranking  What is the confidence in predicting impacts?  N/A  Application ranking  N/A  Are further studies required on impacts or mitigation?  N/A  Application ranking  N/A  Are further studies required on impacts or mitigation?  N/A  Banking of N/A  Banking of N/A  Banking of N/A  Banking of N/A  potential significance  Can the impacts be mitigated?  N/A  Banking of	Application ranking			
impacts?    Note		-	Δre further	N/A
How resilient is the environment to cope with impacts?  Can the impacts be reversed?  N/A  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Potential impacts  N/A  Poposed management controls  N/A  What is the level of public concern?  N/A  Naming of potential significance  N/A  N/A  Poposed management controls  N/A  What is the confidence in predicting impacts?  Can the impacts be mitigated?  N/A  N/A  What is the confidence in predicting impacts?  Can the impacts be mitigated?  N/A  N/A  What is the confidence in predicting impacts?  Can the impacts be mitigated?  N/A  N/A  What is the confidence in predicting impacts?  Can the impacts be reversed?  N/A  Do the operations comply with standards, plans, policies?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  The Wetlands are identified in the Warren Local Environmental Plan 2012. The low impact and drilling in and small forther with the degradation of the Wetlands are identified in the Warren Local Environmental Plan 2012. The low invited in drilling in and small footing in the degradation of the Wetlands are identified in the Warren Local Environmental Plan 2012. The low invited in drilling in som of declared as designated development in the Warren Local Environmental Plan 2012. The low invited in drilling in som of declared as designated development in the degradation of the Wetlands are identified in the Warren Local Environmental Plan 2012. The low invited in dry conditions, and access will be discussed in close constitution with affected landholders.  Proposed management controls  Work will be undertaken in dry conditions and not during wet weather. Additional preactions to be taken around working in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significanter  Duratton  What is the confidence in predicting  N/A		.,,		.47.
How resilient is the environment to cope with impacts?   N/A   What is the level of public concern?   N/A   Ranking of potential significance   N/A   Pustification for ranking	mpaces.			
How resilient is the environment to cope with impacts?  Can the impacts be reversed?  On the operations comply with standards, plans, policies?  Proposed management controls  Any A Sensitive Land Impacts impacts on aquatic reserves or marine parks declared under the Marine Estate Management Act 2014. Impacts on Coastal Zone as defined in the Cooking impacts or mitigated?  N/A  Proposed management controls  Aly A  Application ranking  Aly A  Are further studies required on impacts required on impacts or mitigation?  Aly A  Are further studies required on impacts or mitigation or mitig				
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  Bound impacts be mitigated?  N/A  Do the operations comply with Management Act 2014. Impacts on aquatic reserves or marine parks declared under the Marine Estate Management controls  N/A  Proposed management controls  N/A  What is the confidence in predicting impacts?  Can the impacts be reversed?  N/A  N/A  N/A  N/A  N/A  Application ranking  N/A  What is the confidence in predicting impacts?  Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Can the impacts be mitigated?  N/A  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts  The Wetlands are identified in the Warren Local Environmental Plan 2012. The low impact nature of the drilling and small footprint will not result in the degradation of the Wetlands. Mineral exploration drilling is not declared as designated development in the Warren LEP. The proposed works will only be conducted in dry conditions, producing in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters  Duration  Nationalization ranking  What is the confidence in predicting in High  Are further  N/A  Are further  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/				
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Nationally important wetland Self-Assessment outcomes: Additional precautions to be taken around working in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters    Duration				
Self-Assessment outcomes: Additional precautions to be taken around working in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters    Duration	Proposed management controls	,	not during wet wear	ther.
Additional precautions to be taken around working in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters    Duration   7-10				
taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters  Duration  7-10  Application ranking  What is the confidence in predicting  High  Are further  N/A		Self-Assessment outcomes:		
waterways. Outcome = proposed works will not have a significant impact on EPBC Matters  Duration 7-10  Application ranking Negligible  What is the confidence in predicting High Are further N/A				
Duration 7-10  Application ranking Negligible  What is the confidence in predicting High Are further N/A		taken around endangered and vulnerable specie	es as noted below.	Avoid native vegetation, drainages and
Application ranking     Negligible       What is the confidence in predicting     High     Are further     N/A		waterways. Outcome = proposed works will not	have a significant i	mpact on EPBC Matters
Application ranking     Negligible       What is the confidence in predicting     High     Are further     N/A				
Application ranking     Negligible       What is the confidence in predicting     High     Are further     N/A				
Application ranking     Negligible       What is the confidence in predicting     High     Are further     N/A	Duration	7-10		
What is the confidence in predicting High Are further N/A				
			Are further	N/A
inipacto:   Studies		'''ס''		14/13
مدم المعندمد	impacts			
required on				
impacts or			· ·	
mitigation?			mitigation?	

How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public	Low
		concern?	
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Con the imports he mitigated?	Double	_	ankina
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on other sensit	_	
	under the Forestry Act 2012 for conservation va (and other) zones. b. Drinking water catchmer a 'special area' under the Water NSW Act 2014,	nt protection areas	- land declared to be a 'controlled area' or
	Hunter Water Act 1991. c. Waterfront land as	defined under the	Water Management Act 2000.
Potential impacts	The Wetlands are identified in the Warren Local Environmental Plan 2012. The low impact nature of the drilling and small footprint will not result in the degradation of the Wetlands. Mineral exploration drilling is not declared as designated development in the Warren LEP. The proposed works will only be conducted in dry conditions, and access will be discussed in close consultation with affected landholders.		
Proposed management controls	Work will be undertaken in dry conditions and r Nationally important wetland	not during wet weat	ther.
	Macquarie Marshes management controls.  Drilling will not be undertaken during wet weat will not be undertaken until water subsides. Gromethods ensure that water is contained in the strata. Casing and environmentally friendly drill containing any waters that may be encountered agricultural cropped and grazing paddocks, which on appropriate and best access to each propose favourable works are postponed until suitable of ground conditions will be taken prior to undertaken.	oundwater is not ex same strata and doe ing muds are used t d. The temporary dr ch are widely worke ed location is taken onditions arise. Ado	pected to cause concern as drilling es not cross to different water bearing to weight the water to assist with illing program will take place within ed by the landholders. Landholders advice on and should ground conditions not be
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
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	Justinication for f	unning
standards, plans, policies?	res		
Criteria	Sensitive Land Impacts: Impacts on land reserve 1989/Crown Lands Management Act 2016 for p protection purposes.		<u> </u>
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?	14/6	studies required on impacts or mitigation?	19/6
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for r	l anking
		Justinication for r	anning
Do the operations comply with standards, plans, policies?	N/A		

Criteria	Sensitive Land Impacts: Impacts on land identif	ied as wilderness or	declared a wilderness area under the
	Wilderness Act 1987.		
Potential impacts	N/A		
Proposed management controls	N/A		
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	
	21/2	mitigation?	21/2
How resilient is the environment to	N/A	What is the	N/A
cope with impacts?		level of public concern?	
Con the imports he reversed?	N/A		N/A
Can the impacts be reversed?	IN/A	Ranking of potential	N/A
		significance	
Con the imports he mitigated?	N/A		aulius
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	N/A		
standards, plans, policies?	Consisting Lands, Impacts on watlands of interns	 	locionated under the Democr Convention
Criteria	Sensitive Lands: Impacts on wetlands of interna	_	_
	on Wetlands and those designated as a national of Australia.	illy important wetiar	id in the Directory of Important Wetlands
Detential imposts			
Potential impacts	N/A		
Proposed management controls	N/A		
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	
		significance	
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	N/A		
standards, plans, policies?	·		atal alarmination to the constraint and the constraint
• • • • • • • • • • • • • • • • • • • •	Sensitive Land Impacts: Impacts on land identif		
standards, plans, policies?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone	d for environmental	conservation, protection and/or
standards, plans, policies?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li	d for environmental	conservation, protection and/or
standards, plans, policies? Criteria	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.	d for environmental	conservation, protection and/or
standards, plans, policies? Criteria  Potential impacts	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A	d for environmental	conservation, protection and/or
standards, plans, policies?  Criteria  Potential impacts  Proposed management controls	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A	d for environmental	conservation, protection and/or
standards, plans, policies?  Criteria  Potential impacts  Proposed management controls  Duration	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A	d for environmental	conservation, protection and/or
standards, plans, policies?  Criteria  Potential impacts  Proposed management controls  Duration  Application ranking	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A	d for environmental ittoral rainforests ur	conservation, protection and/or der State Environmental Planning Policy
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A	d for environmental ittoral rainforests ur Are further	conservation, protection and/or
standards, plans, policies?  Criteria  Potential impacts  Proposed management controls  Duration  Application ranking	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A	d for environmental ittoral rainforests ur  Are further studies	conservation, protection and/or der State Environmental Planning Policy
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A	d for environmental ittoral rainforests ur  Are further studies required on	conservation, protection and/or der State Environmental Planning Policy
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A	Are further studies required on impacts or	conservation, protection and/or der State Environmental Planning Policy
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A	Are further studies required on impacts or mitigation?	conservation, protection and/or der State Environmental Planning Policy  N/A
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A	Are further studies required on impacts or mitigation?	conservation, protection and/or der State Environmental Planning Policy
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A	Are further studies required on impacts or mitigation? What is the level of public	conservation, protection and/or der State Environmental Planning Policy  N/A
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A	Are further studies required on impacts or mitigation? What is the level of public concern?	conservation, protection and/or der State Environmental Planning Policy  N/A  N/A
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A	Are further studies required on impacts or mitigation? What is the level of public concern?	conservation, protection and/or der State Environmental Planning Policy  N/A
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to cope with impacts?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	conservation, protection and/or der State Environmental Planning Policy  N/A  N/A
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?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	conservation, protection and/or der State Environmental Planning Policy  N/A  N/A
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?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	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 Policy  N/A  N/A
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 operations comply with	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	conservation, protection and/or der State Environmental Planning Policy  N/A  N/A
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 operations comply with standards, plans, policies?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	conservation, protection and/or ider State Environmental Planning Policy  N/A  N/A  N/A  N/A
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 operations comply with	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reference protection are	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
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 operations comply with standards, plans, policies?	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reference protection are	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
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 operations comply with standards, plans, policies?  Criteria	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reference protection are	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
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	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reference protection are	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
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	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reference protection are	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
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	Sensitive Land Impacts: Impacts on land identif biodiversity / conservation significance or zone management. Includes Coastal Wetlands and Li (Resilience and Hazards) 2021.  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reference protection are	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A

Application ranking	N/A		
Application ranking  What is the confidence in predicting	N/A	Are further	N/A
	N/A	studies	N/A
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?	
Con the impacts he reversed?	N/A		N/A
Can the impacts be reversed?	N/A	Ranking of	IN/A
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for r	anking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on heritage pro	otection areas (histo	oric or natural): a. Nationally and
	internationally recognised heritage sites or area	•	
	Commonwealth Heritage List) b. Items listed of		
		_	c. Heritage items and conservation areas
	identified in an environmental planning instrum	nent	
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
		A vo fourth ov	NI/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?	14//	level of public	14/1
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 r	anking
Do the operations comply with	N/A		
	17/5		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on community		er the Local Government Act 1993 (for
	which a plan of management has been prepare	d).	
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
	-		
Application ranking	N/A		I 21/2
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
	N/A		IN/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 r	l anking
	· ·	Justinication for f	anvine
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on bushfire pro	one areas.	
Potential impacts	The Wetlands are identified in the Warren Loca	l Environmental Pla	n 2012. The low impact nature of the
	drilling and small footprint will not result in the		·
		-	•
	not declared as designated development in the		
	dry conditions, and access will be discussed in c	liose consultation w	itri arrected landholders.

Proposed management controls	Work will be undertaken in dry conditions and not during wet weather.  Management controls  Proposed works will be undertaken in open agricultural land, rotating cropping and grazing land and away from any vegetated areas where species are more likely. Drilling will only occur during dry conditions, the sites will not be accessed during times of flood. Close consultation with the landholders will continue regularly prior to proposed drilling to ensure that access conditions are favourable. No waterways will be affected by this proposed drilling. As a minimum requirement all drilling will be completed at least 40m from any drainage system			
Duration	7-10			
Application ranking	Negligible			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to	LowResilience	What is the	Medium	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	No	Ranking of	Medium	
		potential		
		significance		
Can the impacts be mitigated?	Partly	Justification for ra	anking	
Do the operations comply with	Yes	Impact on Macqu	arie Marshes.	
standards, plans, policies?				
Criteria  Potential impacts	Social Impacts: Any impacts which result in a ch including changes to workforce or industry stru community resources (eg community facilities, The proposed program is small and will not affe	cture of the area/re community services	gion. Including change in demand for and labour force).	
Proposed management controls	Community consultation has been initiated with			
	date.  EARTHWORK/LANDUSE  The land is currently utilised for agricultural gra after the proposed drilling works.  Earthworks and vegetation clearance is not requopen.  DISTURBANCE  This application 600sqm  ACCESS  Access to proposed drilling locations will be alonecessary, in line with relevant landholder spec	uired for this drilling	g program. Sites are relatively flat and d along the edges of paddocks if	
Duration	7-10			
Application ranking	Negligible		1	
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A	
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	
	Partly	Justification for ra	anking	
Can the impacts be mitigated?			·····o	
Can the impacts be mitigated?	,			
Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria	N/A  Social Impacts: Any environmental impact that	may cause substant	ial change or discuntion to the community	

Proposed management controls	Community consultation 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.  EARTHWORK/LANDUSE  The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.			
	Earthworks and vegetation clearance is not requ	uired for this drilling	nrogram Sites are relatively flat and	
	open.	an ca for this arming	5 program. Sites are relatively had and	
	DISTURBANCE			
	This application 600sqm			
	ACCESS			
	Access to proposed drilling locations will be along	ng station tracks an	d along the edges of naddocks if	
	necessary, in line with relevant landholder spec			
Duration	7-10			
Application ranking	Negligible			
What is the confidence in predicting	High	Are further	N/A	
impacts?		studies	,	
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?	Thigh resilience	level of public	LOW	
cope with impacts:		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
can the impacts be reverseur	res		LOW	
		potential		
	2 11	significance		
Can the impacts be mitigated?	Partly	Justification for r	anking	
Do the operations comply with	N/A			
standards, plans, policies?	Contribution of the Contri		and attended to the office of	
Criteria	Social Impacts: Any impacts which result in som			
	disadvantaged (e.g. change to community facility			
Proposed management controls	The small program will not disadvantage the co Community consultation has been initiated with	<u>.</u>		
	date.  EARTHWORK/LANDUSE  The land is currently utilised for agricultural gra after the proposed drilling works.  Earthworks and vegetation clearance is not requopen.  DISTURBANCE  This application 600sqm  ACCESS  Access to proposed drilling locations will be alon necessary, in line with relevant landholder spec	uired for this drilling	g program. Sites are relatively flat and d along the edges of paddocks if	
Duration	7-10			
Application ranking	Negligible			
What is the confidence in predicting	High	Are further	N/A	
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		
cope with impacts:		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
can the impacts be reversed?	163	_	LOW	
		potential		
Constitution of the country of the	Double.	significance		
Can the impacts be mitigated?	Partly	Justification for r	anking	
Do the operations comply with standards, plans, policies?	N/A			
	Social Impacts: Any impacts on the health, cafet	ı tv. nrivacy or welfar	e of individuals or communities caused by	
		** *	•	
Potential impacts				
Potential impacts	Social Impacts: Any impacts on the health, safet factors such as pollution, odour, noise, vibration.  The impacts are minimal and not within proxim	n, lighting, visual im	pacts, etc).	

Proposed management controls	Community consultation has been initiated wi information will be provided, and any concern date.  EARTHWORK/LANDUSE The land is currently utilised for agricultural grafter the proposed drilling works.  DISTURBANCE This application 600sqm TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week 26 April to 17 Feb 2025 – 7 to 10 weeks Access agreements in place.  AIR Air quality is not anticipated to be of concern	s will be addressed in	mmediately. No issues have been raised to
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
How resilient is the environment to	Medium Resilience	mitigation? What is the	Medium
cope with impacts?	Wedidili Resilience	level of public	Wediam
cope with impacts:		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
- Pacco So Colonson		potential	
		significance	
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Social Impacts: Effect on a locality, place or bu		
	architectural, cultural, historical, scientific or s	ocial significance or	other special value for present or future
Potential impacts	generations?  There will be no detrimental effect on the aes		
	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. Whe sites. A detailed search of the sites was under! The Macquarie River at its closest point is loca proposed drilling area. No drillholes will be ad drainage areas within the proposed area and drainages. HERITAGE  There are no items of historic cultural or nature proposed drilling program and as such no imp as wetlands; braided swamps, channels and fl. Macquarie Marshes Nature Reserve and all du carried out in times of dry and in close consultensure no adverse effects occur from the prop	n accessing sites, car taken and is also atta ted less than 200m f vanced within 200m drillholes will be mov ral heritage listed wit act envisaged. This a podplain of the Macci te care will be taken i ation with the landh	e will be taken to avoid these aboriginal ched providing further detail. rom the south eastern point of the of the Macquarie River. There are many led so they do not sit within 40m of any thin the searches performed for this rea is within the extents of lands classified quarie River, however is not part of the regarding access. This drilling can only be
Proposed management controls  Duration	Community consultation has been initiated wi information will be provided, and any concern date.  7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	N/A
impacts?		studies	1.77
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Low
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	No	Ranking of	Low
Can the impacts be reversed?	No	Ranking of potential	Low
Can the impacts be reversed?  Can the impacts be mitigated?	No Partly	Ranking of	

Do the operations comply with	Yes		
standards, plans, policies? Criteria	Social Impacts: Impacts on communities with st	 crong sense of ident	itv.
Potential impacts	There will be no impact or change to the comm		·
Proposed management controls	Community consultation has been initiated with		
rioposeu management controis	information will be provided, and any concerns date.		
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	N/A
impacts?		studies	,
•		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Low
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	No	Justification for r	anking
Do the operations comply with	N/A		
standards, plans, policies?	Conial languages languages and disording at a second constraint		
Criteria	Social Impacts: Impacts on disadvantaged comm		
Potential impacts	There will be no impact or change to the comm		
Proposed management controls	Community consultation has been initiated with		, ,
	information will be provided, and any concerns date.	will be addressed if	nmediately. No issues have been raised to
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	N/A
impacts?		studies	.47
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Low
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Uncertain	Ranking of	Low
		potential	
Courthy invested by wikington	Double.	significance	
Can the impacts be mitigated?  Do the operations comply with	Partly	Justification for r	anking
standards, plans, policies?	N/A		
Criteria	Economic Impacts: Any impacts which may affe	I ect economic activity	(positive or negative), including a
	decrease to net economic welfare.		(positive of megative), moraum, a
Potential impacts	n/a		
P	EARTHWORK/LANDUSE		
	The land is currently utilised for agricultural gra	zing purposes. The	and use will not be changed during or
	after the proposed drilling works.		
Proposed management controls	n/a		
Duration	7-10		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
		1	
11	Will Berthere	mitigation?	
How resilient is the environment to	High Resilience	mitigation? What is the	Low
How resilient is the environment to cope with impacts?	High Resilience	mitigation? What is the level of public	Low
cope with impacts?		mitigation? What is the level of public concern?	
	High Resilience Yes	mitigation? What is the level of public concern? Ranking of	Low
cope with impacts?		mitigation? What is the level of public concern? Ranking of potential	
cope with impacts?  Can the impacts be reversed?	Yes	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?	Yes	mitigation? What is the level of public concern? Ranking of potential	Low
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with	Yes	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?	Yes	mitigation? What is the level of public concern? Ranking of potential significance Justification for r	Low

Potential impacts			
	n/a EARTHWORK/LANDUSE The land is currently utilised for agricultural gra after the proposed drilling works.	zing purposes. The l	and use will not be changed during or
Proposed management controls	n/a		
Duration	7-10		
Application ranking	Positive		L
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification for ra	anking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Economic Impacts: Any impacts which result in	a change to the pub	lic sector revenue or expenditure base.
Potential impacts	n/a EARTHWORK/LANDUSE The land is currently utilised for agricultural gra after the proposed drilling works.	zing purposes. The l	and use will not be changed during or
Proposed management controls	n/a		
Duration	7-10		
Application ranking	Positive		
What is the confidence in predicting	High	Are further	N/A
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?	N/A	Ranking of potential	Low
		significance	
Can the impacts be mitigated?	N/A	significance	anking
Can the impacts be mitigated?  Do the operations comply with standards, plans, policies?  Criteria	N/A N/A Heritage Impacts: Any impacts on a locality, pla	significance Justification for re	
Do the operations comply with standards, plans, policies?	·	significance Justification for re	
Do the operations comply with standards, plans, policies?	N/A  Heritage Impacts: Any impacts on a locality, pla	significance Justification for reception of the proposed drilling accessing sites, care aken and is also attained less than 200m franced within 200m frillholes will be moved at heritage listed with ct envisaged. This are odplain of the Macque care will be taken retion with the landhouse.	ing or archaeological relic of heritage  g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. com the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any hin the searches performed for this rea is within the extents of lands classified uarie River, however is not part of the egarding access. This drilling can only be
Do the operations comply with standards, plans, policies? Criteria	N/A  Heritage Impacts: Any impacts on a locality, plasignificance.  AHIMS  There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertathe Macquarie River at its closest point is locate proposed drilling area. No drillholes will be advidrainage areas within the proposed area and drainages.  HERITAGE  There are no items of historic cultural or naturation proposed drilling program and as such no impact as wetlands; braided swamps, channels and flow Macquarie Marshes Nature Reserve and all due carried out in times of dry and in close consultations.	significance Justification for reception of the proposed drilling accessing sites, care aken and is also attained less than 200m franced within 200m frillholes will be moved at heritage listed with ct envisaged. This are odplain of the Macque care will be taken retion with the landhouse.	ing or archaeological relic of heritage  g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. com the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any hin the searches performed for this rea is within the extents of lands classified uarie River, however is not part of the egarding access. This drilling can only be

What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
How resilient is the environment to	LowResilience	mitigation? What is the	Medium
cope with impacts?	LOWRESHIETICE	level of public	Wediam
cope with impacts.		concern?	
Can the impacts be reversed?	No	Ranking of	Medium
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		potential	
		significance	
Can the impacts be mitigated?	Partly	Justification for ra	anking
Do the operations comply with	Yes Displacement of objects.		
standards, plans, policies?			
Criteria	Aesthetic Impacts: Any impacts on the visual or scenic landscape, including lighting, venting or flaring of		
Potential impacts	The proposed drilling will be of short duration and no night works are proposed so no disturbance from		
	lights. One homestead within the approval area	n, no drilling will be u	undertaken within 400m of the property.
Proposed management controls	No drilling within 400m of homestead.		
Duration	7-10		
Application ranking	Negligible	A un frankling	N1/A
What is the confidence in predicting	High	Are further studies	N/A
impacts?		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium 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	N/A		
standards, plans, policies?			
Criteria	Aesthetic Impacts: Areas or items of high aesthe	etic or scenic value.	
	-		
Potential impacts	The proposed drilling will be of short duration a	and no night works a	
Potential impacts	The proposed drilling will be of short duration a lights. One homestead within the approval area	and no night works a	
	The proposed drilling will be of short duration a	and no night works a	
Potential impacts  Proposed management controls	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.	and no night works a	
Proposed management controls Duration Application ranking	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.	and no night works a	
Potential impacts  Proposed management controls  Duration	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible	and no night works a a, no drilling will be u	undertaken within 400m of the property.
Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible	and no night works a a, no drilling will be u Are further	undertaken within 400m of the property.
Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible	Are further studies	undertaken within 400m of the property.
Proposed management controls  Duration  Application ranking  What is the confidence in predicting impacts?	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High	Are further studies required on impacts or mitigation?	undertaken within 400m of the property.  N/A
Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible	Are further studies required on impacts or mitigation?	undertaken within 400m of the property.
Proposed management controls  Duration  Application ranking  What is the confidence in predicting impacts?	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High	Are further studies required on impacts or mitigation? What is the level of public	undertaken within 400m of the property.  N/A
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 will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern?	N/A  Low
Potential impacts  Proposed management controls  Duration  Application ranking  What is the confidence in predicting impacts?  How resilient is the environment to	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High	Are further studies required on impacts or mitigation? What is the level of public concern?	undertaken within 400m of the property.  N/A
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 will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	N/A  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?	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible High  High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	N/A  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?	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	N/A  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?	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible High  High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	N/A  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 operations comply with	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead. 7-10 Negligible High  High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	N/A  Low  Low  anking
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?	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for red	N/A  Low  Low  anking  urally modified trees (e.g. a scar tree).
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly N/A  Cultural Impacts: Any disturbance of the ground.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for red surface or any cult d to disturb or destreaments.	N/A  Low  Low  anking  urally modified trees (e.g. a scar tree). oy any Aboriginal heritage.
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for radius of disturb or destrate the proposed drilling.	N/A  Low  Low  Low  urally modified trees (e.g. a scar tree). oy any Aboriginal heritage. g area on the attached AHIMS search,
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for radius of the proposed drillin accessing sites, care	Low  Low  Low  Low  urally modified trees (e.g. a scar tree).  oy any Aboriginal heritage. g area on the attached AHIMS search, e will be taken to avoid these aboriginal
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertate Existing Aboriginal sites will be avoided, and all	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for radius of the proposed drillin accessing sites, care iken and is also attarpersonnel made aw	Low  Low  Low  Low  anking  urally modified trees (e.g. a scar tree).  oy any Aboriginal heritage. g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertated Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should are	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for radius of the proposed drillin accessing sites, care iken and is also attar personnel made away new Aboriginal significal significance.	Low  Low  Low  Low  Low  anking  urally modified trees (e.g. a scar tree).  oy any Aboriginal heritage. g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by tes be discovered staff will inform the
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertated Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informatical sites will be avoided and all placing a buffer of 30m around them. Should ar management team who will record the informatical sites will be avoided.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for rate of the proposed drillin accessing sites, care iken and is also attain personnel made away new Aboriginal sition on the AHIMS I	N/A  Low  Low  Low  urally modified trees (e.g. a scar tree). oy any Aboriginal heritage. g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by tes be discovered staff will inform the Mobile APP (which is Heritage NSW
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertated Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should armanagement team who will record the informat preferred method of recording). This site would armanagement method of recording). This site would be a significant of the sites was undertated to the information of the sites was undertated to	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reduction of the proposed drillin accessing sites, care the proposed drillin accessing the proposed drilling the proposed drillin accessing the pr	Low  Low  Low  Low  Low  Low  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 mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informat preferred method of recording). This site would concerns regarding new sites and working in the	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for reduction of the proposed drillin accessing sites, care the proposed drillin accessing the proposed drilling the proposed drillin accessing the pr	Low  Low  Low  Low  Low  Low  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 mitigated?  Do the operations comply with standards, plans, policies?  Criteria  Potential impacts	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertate Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should are management team who will record the information preferred method of recording). This site would concerns regarding new sites and working in the 8500.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for real distance or any cult did to disturb or destrethe proposed drillin accessing sites, care sken and is also attance personnel made away new Aboriginal sittion on the AHIMS If then be avoided by a rea will be raised	Low  Low  Low  Low  Low  anking  urally modified trees (e.g. a scar tree).  oy any Aboriginal heritage. g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by tes be discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertate Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should are management team who will record the information preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a site of the sites will be advanced within 200m of a site of the sites and working in the 8500.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for real distance or any cult did to disturb or destrethe proposed drillin accessing sites, care sken and is also attance personnel made away new Aboriginal sittion on the AHIMS If then be avoided by a rea will be raised	Low  Low  Low  Low  Low  anking  urally modified trees (e.g. a scar tree).  oy any Aboriginal heritage. g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by tes be discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873
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	The proposed drilling will be of short duration a lights. One homestead within the approval area No drilling within 400m of homestead.  7-10  Negligible  High  High Resilience  Yes  Partly  N/A  Cultural Impacts: Any disturbance of the ground The proposed drilling program is not anticipated There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was undertate Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should are management team who will record the information preferred method of recording). This site would concerns regarding new sites and working in the 8500.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for real distance or any cult did to disturb or destrethe proposed drillin accessing sites, care sken and is also attance personnel made away new Aboriginal sittion on the AHIMS If then be avoided by a rea will be raised	Low  Low  Low  Low  Low  Low  anking  urally modified trees (e.g. a scar tree).  oy any Aboriginal heritage. g area on the attached AHIMS search, e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by tes be discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873

What is the confidence in predicting	High	Are further	N/A	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	LowResilience	What is the	Medium	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	No	Ranking of	Medium	
can the impacts be reversed.	140	potential	Wicdiani	
		significance		
Can the impacts he mitigated?				
Can the impacts be mitigated?	Partly Justification for ranking  Voc.  Displacement or destruction of Aberiginal horizone.			
Do the operations comply with	Yes Displacement or destruction of Aboriginal heritage.			
standards, plans, policies?	C. H. and Laurente, A. C. Carrente and L. C. Albert Standard Stand			
Criteria	Cultural Impacts: Any impacts on known Aborig	•	<u> </u>	
Potential impacts	There are 9 recorded Aboriginal Sites noted wit	hin the proposed dr	illing area on the attached AHIMS search.	
	There are 9 listed Aboriginal Sites noted within	the proposed drillin	g area on the attached AHIMS search,	
	located to the north of proposed collars. When	accessing sites, care	will be taken to avoid these aboriginal	
	sites. A detailed search of the sites was underta	ken and is also atta	ched providing further detail.	
Proposed management controls	Existing Aboriginal sites will be avoided, and all	personnel made aw	are of the sites, sites will be avoided by	
	placing a buffer of 30m around them. Should ar	ny new Aboriginal si	tes be discovered staff will inform the	
	management team who will record the informa	,		
	preferred method of recording). This site would		,	
	concerns regarding new sites and working in the		· · · · · · · · · · · · · · · · · · ·	
	8500.		ancom, mannentage non on oz soro	
	No drillholes will be advanced within 200m of a	ny named watercou	rses	
Duration	7-10	ily hamed watered	1303.	
Application ranking	Positive	A confinition	Al-	
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	LowResilience	What is the	Medium	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	No	Ranking of	Medium	
		potential		
		significance		
Can the impacts be mitigated?	Partly	Justification for ra	anking	
Do the operations comply with	Yes	Displacement or o	lestruction of Aboriginal heritage.	
standards, plans, policies?				
Criteria	Cultural Impacts: Affects areas where the lands	cape features indica	te the likely presence of Aboriginal	
	objects.	'	,,	
Potential impacts	There are no named watercourses through this	area, the Macquari	River is located approximately 60m from	
Totaliai iiipacis	_	•		
	the boundary of this approval area, however no drilling will be conducted within 200m of the river. There a			
	no other landscane features as listed above	·		
	no other landscape features as listed above.	the proposed drillin	g area on the attached AHIMS search	
	There are 9 listed Aboriginal Sites noted within		=	
	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When	accessing sites, care	e will be taken to avoid these aboriginal	
	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta	accessing sites, care ken and is also atta	e will be taken to avoid these aboriginal ched providing further detail.	
Proposed management controls	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all	accessing sites, care ken and is also atta personnel made aw	will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by	
Proposed management controls	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar	accessing sites, care ken and is also atta personnel made aw ny new Aboriginal si	e will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by the sites be discovered staff will inform the	
Proposed management controls	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa	accessing sites, care ken and is also atta personnel made aw ny new Aboriginal si tion on the AHIMS I	e will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by the sites be discovered staff will inform the Mobile APP (which is Heritage NSW	
Proposed management controls	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sir tion on the AHIMS I then be avoided by	e will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by the sites be discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any	
Proposed management controls	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sir tion on the AHIMS I then be avoided by	e will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by the sites be discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any	
Proposed management controls	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sir tion on the AHIMS I then be avoided by e area will be raised	e will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by the sites be discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873	
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Duration	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a 7-10	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sir tion on the AHIMS I then be avoided by e area will be raised	e will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by the sites be discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873	
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Duration Application ranking What is the confidence in predicting	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a 7-10  Positive	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sition on the AHIMS I then be avoided by area will be raised ny named watercou	e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by the seed by the seed discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873 arses.	
Duration Application ranking What is the confidence in predicting	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a 7-10  Positive	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sit tion on the AHIMS I then be avoided by a area will be raised ny named watercou	e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by the seed by the seed discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873 arses.	
Duration Application ranking What is the confidence in predicting	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a 7-10  Positive	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sit tion on the AHIMS I then be avoided by a area will be raised ny named watercou  Are further studies required on impacts or	e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by the seed by the seed discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873 arses.	
Duration Application ranking What is the confidence in predicting impacts?	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a 7-10  Positive  High	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sit tion on the AHIMS I then be avoided by a area will be raised ny named watercou  Are further studies required on impacts or mitigation?	e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by the see be discovered staff will inform the Mobile APP (which is Heritage NSW or placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873 press.	
Duration Application ranking What is the confidence in predicting impacts?  How resilient is the environment to	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a 7-10  Positive	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sit tion on the AHIMS I then be avoided by a area will be raised ny named watercou  Are further studies required on impacts or mitigation? What is the	e will be taken to avoid these aboriginal ched providing further detail. are of the sites, sites will be avoided by the seed by the seed discovered staff will inform the Mobile APP (which is Heritage NSW placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873 arses.	
Duration Application ranking What is the confidence in predicting impacts?	There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta Existing Aboriginal sites will be avoided, and all placing a buffer of 30m around them. Should ar management team who will record the informa preferred method of recording). This site would concerns regarding new sites and working in the 8500.  No drillholes will be advanced within 200m of a 7-10  Positive  High	accessing sites, care ken and is also attar personnel made aw ny new Aboriginal sit tion on the AHIMS I then be avoided by a area will be raised ny named watercou  Are further studies required on impacts or mitigation?	e will be taken to avoid these aboriginal ched providing further detail.  are of the sites, sites will be avoided by the see be discovered staff will inform the Mobile APP (which is Heritage NSW or placing a 30m buffer around it. Any directly with Heritage NSW on 02 9873 press.	

Can the impacts be reversed?	No	Ranking of	Medium	
·		potential		
		significance		
Can the impacts be mitigated?	Partly	Justification for ra	•	
Do the operations comply with standards, plans, policies?	Yes	Displacement or Destruction of Aboriginal heritage.		
Criteria	Cultural Impacts: Affects areas subject to native management arrangements.	tive title claims, indigenous land use agreements or joint		
Potential impacts	The proposed drilling area is not within an area where native title may exist. All drilling is proposed			
•	Freehold land and not within parcels of Crown Land.			
Proposed management controls	Existing Aboriginal sites will be avoided, and all personnel made aware of the sites, sites will be avoided by placing a buffer of 30m around them. Should any new Aboriginal sites be discovered staff will inform the management team 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 drillholes will be advanced within 200m of any named watercourses.			
Duration	7-10			
Application ranking	Positive			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to	Medium Resilience	What is the	Low	
cope with impacts?		level of public concern?		
Can the impacts be reversed?	N/A	Ranking of	Low	
can the impacts be reversed.	NA	potential	2000	
		significance		
Can the impacts be mitigated?	N/A	Justification for ra	anking	
Do the operations comply with	1471	3434111441101110111		
standards, plans, policies?				
Criteria	Cultural Impacts: Impacts on Aboriginal commu	nities or areas subje	ect to land rights claims.	
Potential impacts	There are 9 recorded Aboriginal Sites noted with	hin the proposed dr	illing area on the attached AHIMS search.	
Proposed management controls	Existing Aboriginal sites will be avoided, and all personnel made aware of the sites, sites will be avoided by placing a buffer of 30m around them. Should any new Aboriginal sites be discovered staff will inform the management team 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 drillholes will be advanced within 200m of any named watercourses.			
Duration	7-10	,		
Application ranking	Positive			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to	Medium Resilience	What is the	Low	
cope with impacts?		مالمانية فما منيما		
		level of public concern?		
Can the impacts be reversed?	N/A		Low	
Can the impacts be reversed?	N/A	concern? Ranking of potential significance		
Can the impacts be reversed?  Can the impacts be mitigated?  Do the operations comply with		concern? Ranking of potential		
Can the impacts be reversed?  Can the impacts be mitigated?	N/A	concern? Ranking of potential significance Justification for ra	anking	

	Т		
Proposed management controls	AHIMS There are 9 listed Aboriginal Sites noted within located to the north of proposed collars. When sites. A detailed search of the sites was underta. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be advidrainage areas within the proposed area and drainages. HERITAGE There are no items of historic cultural or natura proposed drilling program and as such no imparas wetlands; braided swamps, channels and flow Macquarie Marshes Nature Reserve and all due carried out in times of dry and in close consultatensure no adverse effects occur from the proposed.	accessing sites, care aken and is also atta ed less than 200m f anced within 200m rillholes will be mov al heritage listed wit ct envisaged. This al odplain of the Macce care will be taken i	e will be taken to avoid these aboriginal ched providing further detail. rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any hin the searches performed for this rea is within the extents of lands classified quarie River, however is not part of the regarding access. This drilling can only be
Duration	7-10		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	LowResilience	What is the level of public concern?	Medium
Can the impacts be reversed?	No	Ranking of potential significance	Medium
Can the impacts be mitigated?	Partly	Justification for r	anking
Do the operations comply with standards, plans, policies?	Yes	Dispalcement or	destruction of Aboriginal Heritage.
Criteria	Land Use Impacts: Any major changes in land us	se, including curtailı	ment of other beneficial land uses.
Potential impacts	EARTHWORK/LANDUSE The land is currently utilised for agricultural gra after the proposed drilling works. Earthworks and vegetation clearance is not req open. Drill pad areas, affecting approximately 10 x 20 should this be necessary care will be taken to e regrowth. DISTURBANCE This application 600sqm Total cumulative 2000sqm EAS – ROCCs provided.	uired for this drilling	g program. Sites are relatively flat and or clearing of grass from the surface,
Proposed management controls	n/a		
Duration	7-10		
Application ranking  What is the confidence in predicting impacts?	Positive 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 r	anking
Do the operations comply with standards, plans, policies?	Yes		<u> </u>
Criteria	Transportation Impacts: Substantial impacts on alter present patterns of circulation or moveme		tion systems (road, rail, pedestrian) which
Potential impacts	There will be no significant impact on transport	ation from a small t	emporary drilling program
<u> </u>	There will be no significant impact on transportation from a small temporary drilling program		

	I			
Proposed management controls	ACCESS			
	Access to proposed drilling locations will be alo	-	=	
	necessary, in line with relevant landholder specifications. No new tracks are required to be constructed Access agreement in place.  TIMING/NOISE  12hr shifts 6am-6pm, 7 days a week			
	26 April to 17 Feb 2025 – 7 to 10 weeks			
Duration	7-10			
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		
Can the impacts be mitigated?	Partly	significance Justification for r	anking	
Do the operations comply with	Partly N/A	Justilication for f	alikilig	
standards, plans, policies?	N/A			
Criteria	Transportation Impacts: Impacts associated wit	Transportation Impacts: Impacts associated with direct or indirect additional traffic.		
Potential impacts	There will be no significant impact on transport			
Proposed management controls	ACCESS	acion nom a sman c	comporary arming program	
roposed management controls	Access to proposed drilling locations will be alo	ng station tracks an	d along the edges of paddocks if	
	necessary, in line with relevant landholder specifications. No new tracks are required to be constructed.			
	Access agreement in place.			
	TIMING/NOISE			
	12hr shifts 6am-6pm, 7 days a week			
	26 April to 17 Feb 2025 – 7 to 10 weeks			
Duration	7-10			
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 cope with impacts?	High Resilience	What is the level of public	Low	
cope with impacts?		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
can the impacts be reversed:	163	potential	LOW	
		significance		
Can the impacts be mitigated?	Partly	Justification for r	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Consistency with applicable local strategic plant	ning statements, reg	gional strategic plans or district strategic	
	plans.			
Potential impacts	The Macquarie Marshes Wetlands are identified	d in the Warren Loc	al Environmental Plan 2012. Mineral	
	exploration drilling is not declared as designate	•	·	
	the drilling and small footprint will not result in the degradation of the Wetlands, sites are with			
	land. All works will only be conducted in dry we	0	the wettands, sites are within agricultural	

Proposed management controls	Works occur only during dry season. Limit vehion tracks. Undertake rehabilitation as soon as paite, but otherwise prior to APO expiry. Strong landholders will ensure rehabilitation methods Ensure all staff and contractors maintain high stall rubbish and equipment removed from site a NON-CEA triggered by proximity of Ramsar wet Pre-referral meeting with DCCEEW on 28/3/202 wetland. Outcome: ACGH to undertake self-ass will be a significant impact to the Wetlands and Self-Assessment outcomes: Additional precautions to be taken around worltaken around endangered and vulnerable speci waterways. Outcome = proposed works will not	practicable, most like knowledge of the ar are undertaken effit tandards of work an as soon as practicable cland. 24 in relation to EPB essment on each se I Macquarie Marshe king in wetland area es as noted below.	ely as soon as drill rig has moved from rea and good relationships with ciently and effectively. Indicate for the environment. Ide.  BC matters due proximity of Ramsar reparate project (APO) to determine if there res. Bas in times of flood. Additional care to be Avoid native vegetation, drainages and
Duration	7-10		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	Yes
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Medium
Can the impacts be reversed?	Uncertain	Ranking of potential significance	Medium
Can the impacts be mitigated?	Partly Justification for ranking		
Do the operations comply with standards, plans, policies?			
Criteria	Matters of National Environmental Significance Protection and Biodiversity Conservation Act 19	999:	
Potential impacts	MNES - 29 Threatened species, 4 Threatened Ecological Communities and 9 Migratory Species.  Of the 29 threatened species the Curlew Sandpiper, Swift Parrot, Plains Wanderer, Silver Perch are considered critically endangered. The Curlew Sandpiper, Swift Parrot and Plains Wanderer are all classified as endangered for NSW on the link to further information from the MNES search. 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 sighted. Proposed works will be undertaken in open agricultural land, away from vegetated areas where species are more likely. The Silver Perch is classified as Vulnerable in NSW – no waterways will be affected by this proposed drilling.  The 4 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 and Weeping Myall Woodlands communities as Endangered and Community likely to occur within the area. Grey Box Grassy Woodlands and Derived Native Grasslands of South-eastern Australia as Endangered and Communities may occur within this area. All proposed works has been designed to avoid any native vegetation and close consultation with landholders on access routes is maintained. These ecological communities should they be present will not be adversely affected.  The 9 listed migratory species has the Curlew Sandpiper as critically endangered – however the link to this species differs stating for NSW this is endangered.  The Macquarie Marshes Reserve is located adjacent to the east of the proposed drilling area. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. This proposed drilling can only be conducted during dry conditions at which time the threatened species will likely be within the main Marshes area.		

#### Agricultural properties that have already been cleared were selected for this drilling program to significantly **Proposed management controls** 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 communities and the habitats of threatened species and threatened migratory species. Crews are instructed to not interact with wildlife or vegetation during the drilling activities. Nationally important wetland Pre-referral meeting with DCCEEW on 28/3/2024 in relation to EPBC matters due proximity of Ramsar wetland. Outcome: ACGH undertake self-assessment on each separate project (APO) to determine if there will be a significant impact to the Wetlands and Macquarie Marshes. A self-assessment document has been completed, with the outcome confirming that there will not be a significant impact to the Wetlands and Macquarie Marshes, sufficient mitigating protocols are in place to ensure management of identified risks and sensitivities. Self-Assessment outcomes: Additional precautions to be taken around working in wetland areas in times of flood. Additional care to be taken around endangered and vulnerable species as noted below. Avoid native vegetation, drainages and waterways. Outcome = proposed works will not have a significant impact on EPBC Matters Management controls Proposed works will be undertaken in open agricultural land, rotating cropping and grazing land and away from any vegetated areas where species are more likely. Drilling will only occur during dry conditions, the sites will not be accessed during times of flood. Close consultation with the landholders will continue regularly prior to proposed drilling to ensure that access conditions are favourable. No waterways will be affected by this proposed drilling. As a minimum requirement all drilling will be completed at least 40m from any drainage system. Macquarie Marshes management controls. Drilling will not be undertaken during wet weather events. Should there be elevated water levels this drilling will not be undertaken until water subsides. Groundwater is not expected to cause concern as drilling methods ensure that water is contained in the same strata and does not cross to different water bearing strata. Casing and environmentally friendly drilling muds are used to weight the water to assist with containing any waters that may be encountered. The temporary drilling program will take place within agricultural cropped and grazing paddocks, which are widely worked by the landholders. Landholders advice on appropriate and best access to each proposed location is taken on and should ground conditions not be favourable works are postponed until suitable conditions arise. Additional caution to time of year and ground conditions will be taken prior to undertaking the works. Duration 7-10 **Application ranking** Positive What is the confidence in predicting Are further Uncertain High impacts? studies required on impacts or mitigation? How resilient is the environment to Medium Resilience What is the Medium level of public cope with impacts? concern? Can the impacts be reversed? Uncertain Ranking of Medium potential significance Can the impacts be mitigated? Partly Justification for ranking Do the operations comply with Impact on Macquarie Marshes. Yes standards, plans, policies? Cumulative Impacts: Cumulative environmental effects with other existing or likely future activities. Criteria **Potential impacts** EARTHWORK/LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. DISTURBANCE This application 600sqm - Total cumulative 2000sqm EAs - ROCCs provided. **Proposed management controls** n/a Duration 7-10 Application ranking Positive What is the confidence in predicting Are further N/A High impacts? studies

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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 ranking	
Do the operations comply with	N/A		
standards, plans, policies?			

FORM: Brief NonCEA (v3.3)

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