

Thursday 11 April 2024

Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors

Macquarie | APO0001412

| Decision Maker | Monique Meyer |
|---------------------------|------------------------------------|
| Prepared by | Nicole Wallwood |
| Title | EL 8422 (1992) |
| Authorised Representative | |
| Project name | Macquarie |
| Activity type | Non-Complying Exploration Activity |

Issue

has sought an activity approval in respect of Macquarie, within EL 8422 (1992), at 85km NNE of 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

APO0001412 seeking approval under EL 8422 (granted 17/2/2016, expiry 17/2/2025) to undertake the Macquarie project involving 3x rotary mud drillholes with diamond tails to approx 180m depth) with above ground sumps.

Current security held and required for EL 8422 (1992) is \$10,000.

This application forms part of the Macquarie exploration program.

Rehabilitation activities outstanding on the title include:

1. APO0001413 – for 2x diamond drillholes, approved 5 October 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 Macquarie* 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 Macquarie is approved.

Refer to RCE Record RCE0001749

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 Macquarie report, and the Review of Environmental Factors document, the proposed activity has been assessed as is not likely to have a significant impact on the environment and therefore an EIS is not required.

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

Certification

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

Recommendation

The Decision Maker, under delegation from the Minister:

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

Review of Environmental Factors document

| Criteria | Air Impacts: Air quality impacts (including impacts on nearby sensitive receptors). |
|------------------------------|---|
| Potential impacts | Air impacts from the proposed program are negligible. The nearest sensitive receptor located 230 away from proposed drilling is the Mole HS. As mud rotary and diamond drilling does not produce significant dust |
| | the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes. No new tracks are being created. |
| Proposed management controls | Air quality is not anticipated to be of concern with the drilling methods proposed. |
| | Drilling will not occur within 200m of sensitive receptors. |
| | Vehicles will travel slowly along all farm tracks to minimise travelling dust. |
| | Vehicles will be well maintained to minimise excessive exhaust fumes. |
| | Landholder consultation throughout the whole program to ensure best and appropriate practices are being |
| | maintained. |
| Duration | Short term |
| Application ranking | Negligible |

| What is the confidence in predicting | High | Are further | No |
|--|--|---|---|
| impacts? | | studies | |
| | | required on | |
| | | | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| 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 | Air Importo, Croonhouso er ezene importo | | |
| Criteria | Air Impacts: Greenhouse or ozone impacts. | | |
| Potential impacts | Air impacts from the proposed program are neg | ligible. The neare | st sensitive receptor located 230 away |
| | from proposed drilling is the Mole HS. As mud r | otary and diamond | drilling does not produce significant dust |
| | | | |
| | the impact to the receptor is predicted to be ne | | |
| | releasing excess exhaust fumes. No new track | s are being created. | |
| Proposed management controls | Air quality is not anticipated to be of concern w | ith the drilling meth | ods proposed. |
| | | 0 | F - F |
| | | | |
| | Drilling will not occur within 200m of sensitive r | | |
| | Vehicles will travel slowly along all farm tracks t | o minimise travellin | g dust. |
| | Vehicles will be well maintained to minimise ex | cessive exhaust fum | es. |
| | Landholder consultation throughout the whole | | |
| | 5 | program to ensure | best and appropriate practices are being |
| | maintained. | | |
| Duration | Medium term atmospheric residence. | | |
| Application ranking | Negligible | | |
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| What is the confidence in predicting | High | Are further | No |
| impacts? | | studies | |
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| How resilient is the environment to | High Resilience | What is the | Low |
| | | level of public | |
| cope with impacts? | | | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| | | potential | |
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| Can the impacts be mitigated? | Partly | | anking |
| · · · | | significance | anking |
| Do the operations comply with | Partly Yes | significance | anking |
| Do the operations comply with standards, plans, policies? | Yes | significance Justification for ra | anking |
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| Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | Yes Air Impacts: Additional impacts on areas with de Air impacts from the proposed program are neg from proposed drilling is the Mole HS. As mud r the impact to the receptor is predicted to be ne releasing excess exhaust fumes. No new track Air quality is not anticipated to be of concern w Drilling will not occur within 200m of sensitive r Vehicles will travel slowly along all farm tracks t Vehicles will be well maintained to minimise exc Landholder consultation throughout the whole maintained. Short term Negligible High | significance Justification for ra egraded air quality. digible. The neares otary and diamond gligible. All vehicls are being created. ith the drilling meth eceptors. o minimise travellin cessive exhaust fum program to ensure Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | st sensitive receptor located 230 away drilling does not produce significant dust es will be in good working order and not ods proposed. g dust. es. best and appropriate practices are being No |
| Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | Yes Air Impacts: Additional impacts on areas with de Air impacts from the proposed program are neg from proposed drilling is the Mole HS. As mud r the impact to the receptor is predicted to be ne releasing excess exhaust fumes. No new track Air quality is not anticipated to be of concern w Drilling will not occur within 200m of sensitive r Vehicles will travel slowly along all farm tracks t Vehicles will be well maintained to minimise exc Landholder consultation throughout the whole maintained. Short term Negligible High High Resilience | significance Justification for ra- egraded air quality. digible. The neares otary and diamond gligible. All vehicls are being created. ith the drilling meth eceptors. o minimise travellin cessive exhaust fum program to ensure Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | st sensitive receptor located 230 away drilling does not produce significant dust es will be in good working order and not ods proposed. g dust. es. best and appropriate practices are being No |
| Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | Yes Air Impacts: Additional impacts on areas with de Air impacts from the proposed program are neg from proposed drilling is the Mole HS. As mud r the impact to the receptor is predicted to be ne releasing excess exhaust fumes. No new track Air quality is not anticipated to be of concern w Drilling will not occur within 200m of sensitive r Vehicles will travel slowly along all farm tracks t Vehicles will be well maintained to minimise exc Landholder consultation throughout the whole maintained. Short term Negligible High | significance Justification for ra egraded air quality. digible. The neares otary and diamond gligible. All vehicls are being created. ith the drilling meth eceptors. o minimise travellin cessive exhaust fum program to ensure Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | st sensitive receptor located 230 away drilling does not produce significant dust es will be in good working order and not ods proposed. g dust. es. best and appropriate practices are being No |
| Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | Yes Air Impacts: Additional impacts on areas with de Air impacts from the proposed program are neg from proposed drilling is the Mole HS. As mud r the impact to the receptor is predicted to be ne releasing excess exhaust fumes. No new track Air quality is not anticipated to be of concern w Drilling will not occur within 200m of sensitive r Vehicles will travel slowly along all farm tracks t Vehicles will be well maintained to minimise exc Landholder consultation throughout the whole maintained. Short term Negligible High High Resilience | significance Justification for ra egraded air quality. digible. The neares otary and diamond gligible. All vehicls are being created. ith the drilling meth eceptors. o minimise travellin cessive exhaust fum program to ensure Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | st sensitive receptor located 230 away drilling does not produce significant dust es will be in good working order and not ods proposed. g dust. es. best and appropriate practices are being No |
| Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? | Yes Air Impacts: Additional impacts on areas with de Air impacts from the proposed program are neg from proposed drilling is the Mole HS. As mud r the impact to the receptor is predicted to be ne releasing excess exhaust fumes. No new track Air quality is not anticipated to be of concern w Drilling will not occur within 200m of sensitive r Vehicles will travel slowly along all farm tracks t Vehicles will be well maintained to minimise exc Landholder consultation throughout the whole maintained. Short term Negligible High High Resilience Partly | significance Justification for ra egraded air quality. digible. The neares otary and diamond gligible. All vehicls are being created. ith the drilling meth eceptors. o minimise travellin cessive exhaust fum program to ensure Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | st sensitive receptor located 230 away drilling does not produce significant dust es will be in good working order and not ods proposed. g dust. es. best and appropriate practices are being No |

| Potential impacts | | e or groundwater. | |
|--|---|---|--|
| | Groundwater: Groundwater encountered dur methods to ensure that water is contained in th The Company have drilled several holes in this a There is a known water bore within the propos- salinity of 501-1000ppm but no record of water area is GW801144, drilled to 12m with an unco water level averaging out to 5m below existing the Macquarie River, located 165m from the ea point, however actual collar locations are more drainages within the proposed drilling area. Pro of any existing drainages. The drilling area is a Nature Reserve occurs approximately 200m eas area can extend into the proposed drilling area | ne same strata and r area and have not e ed drilling area GWC depth on file. Anot nsolidated sand laye ground level. Su stern boundary of t likely to be drilled uposed collars will n also within Floodpla st of the proposed d | not cross to different water bearing strata. ncountered any difficulties with water. 204347, drilled to 243.80m recording ther monitoring bore E of proposed drilling er at 9.5-11.5m recording water. Standing urface water: The nearest watercourse is he proposed drilling area at its nearest 1,200m west of the river. There are several ot be progressed if they occur within 40m in wetlands. The Macquarie Marshes Irilling area. In times of high rainfall, this |
| Proposed management controls | undertaken until water subsides. The program is not expected to have an impact | on surface water. | There are several drainages within the |
| | proposed drilling area. Proposed collars will not drainages. Specific access to sites will be under the ground conditions the best. Drilling will no there be elevated water levels this drilling will ne expected to cause concern as drilling methods of not cross to different water bearing strata. All approval area is within the Macquarie Marshes drilling will not be undertaken until water subsis consultation with the landholder who knows th impact the Macquarie River as the method of d and there will be no ancillary water stored on s with the proposed drilling methods groundwate contained in above ground sumps and not affeed anticipated close to surface, rehabilitation will of surface to ensure water does not cross into diff surface soil and topsoil. Drilling contractors will | taken in close consu- by be undertaken du- not be undertaken du- ensure that water is proposed activities Wetland. Should des. Specific acce e ground conditions rilling will ensure the ite. Salinity of gro er will remain in the ct the surrounding s- entail cementing fro- erent strata. The to | Itation with the landholder who knows uring extreme weather events. Should intil water subsides. Groundwater is not contained in the same strata and does swill be completed in dry season as the there be elevated water levels this ess to sites will be undertaken in close is the best. Drilling is not expected to nat all ground water remains in the ground, undwater will be considered, however ground and any drilling waters will be urface. Given the area and groundwater on the base of the hole to 1m from p of the hole will be backfilled with |
| Duration | Short term | use above ground s | sumps and so no excavations are required. |
| Application ranking | | | |
| What is the confidence in predicting | High | Are further | No |
| impacts? | | studies required on impacts or | |
| impacts? | Madium Datiliana | required on impacts or mitigation? | |
| | Medium Resilience | required on impacts or | Low |
| impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | Yes | required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | Low |
| impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? | | required on impacts or mitigation? What is the level of public concern? Ranking of potential | Low |
| 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 | Yes | required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | Low |
| impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? | Yes Partly | required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | Low |
| 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? | Yes Partly Yes | required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for r | Low anking |

| Proposed management controls | The program is not expected to have an impact proposed drilling area. Proposed collars will not drainages. Specific access to sites will be undert the ground conditions the best. Drilling will no there be elevated water levels this drilling will n expected to cause concern as drilling methods a not cross to different water bearing strata. All approval area is within the Macquarie Marshes drilling will not be undertaken until water subsi consultation with the landholder who knows th impact the Macquarie River as the method of d and there will be no ancillary water stored on si with the proposed drilling methods groundwate contained in above ground sumps and not affect anticipated close to surface, rehabilitation will e surface to ensure water does not cross into diff surface soil and topsoil. Drilling contractors will | be progressed if the caken in close consu- by be undertaken du- not be undertaken u- ensure that water is proposed activities Wetland. Should des. Specific acce e ground conditions rilling will ensure the te. Salinity of gro er will remain in the the surrounding s- entail cementing fro- erent strata. The to | ey occur within 40m of any existing ilitation with the landholder who knows uring extreme weather events. Should intil water subsides. Groundwater is not contained in the same strata and does swill be completed in dry season as the there be elevated water levels this ess to sites will be undertaken in close is the best. Drilling is not expected to nat all ground water remains in the ground, undwater will be considered, however ground and any drilling waters will be urface. Given the area and groundwater om the base of the hole to 1m from p of the hole will be backfilled with |
|---|--|--|---|
| Duration | Short term | | · · · · · · · · · · · · · · · · · · · |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or | No |
| | | 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 r | anking |
| Do the operations comply with standards, plans, policies? | Yes | | |
| Criteria | Water Impacts: Impacts from changes to natura | al water bodies, wet | lands or runoff patterns. |
| Potential impacts | The nearest watercourse is the Macquarie River drilling area at its nearest point, however actua the river. There are several drainages within the progressed if they occur within 40m of any exist The drilling area is also within Floodplain wetlar approximately 200m east of the proposed drillin proposed drilling area. Should there be elevated | l collar locations are e proposed drilling a ting drainages. nds. The Macquarie ng area. In times of | e more likely to be drilled 1,200m west of area. Proposed collars will not be Marshes Nature Reserve occurs high rainfall, this area can extend into the |
| Proposed management controls | subsides. The program is not expected to have an impact | | |

| Proposed management controls | The program is not expected to have an impact of surface water. | | |
|--------------------------------------|--|-----------------------|---|
| | There are several drainages within the proposed | d drilling area. Prop | osed collars will not be progressed if they |
| | occur within 40m of any existing drainages. Spe | cific access to sites | will be undertaken in close consultation |
| | with the landholder who knows the ground con | ditions the best. | |
| | Drilling will not be undertaken during extreme v | weather events. Sho | uld there be elevated water levels this |
| | drilling will not be undertaken until water subsid | des. Groundwater i | s 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. | | |
| | All proposed activities will be completed in dry season as the approval area is within the Macquarie Marshes | | |
| | Wetland. | | |
| | Should there be elevated water levels this drilling will not be undertaken until water subsides. | | |
| | Specific access to sites will be undertaken in clo | se consultation with | n the landholder who knows the ground |
| | conditions the best. | | |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting | High | Are further | No |
| impacts? | | studies | |
| | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | Medium Resilience | What is the | Low |
| cope with impacts? | | level of public | |

| Do the operations comply with standards, plans, policies? | Yes | | |
|---|---|---|---|
| Criteria | Water Impacts: Impacts from aquifer interferen | ce. including change | es to inter-aquifer connectivity. |
| Potential impacts | Groundwater encountered during drilling will be | e managed and con | tained 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 several holes in this area and have not encountered any difficulties with There is a known water bore within the proposed drilling area GW004347, drilled to 243.80m recor salinity of 501-1000ppm but no record of water depth on file. Another monitoring bore E of propos | | |
| | area is GW801144, drilled to 12m with an uncor water level averaging out to 5m below existing a | | er at 9.5-11.5m recording water. Standing |
| Proposed management controls | Drilling is not expected to impact the Macquare water remains in the ground, and there will be a Salinity of groundwater will be considered, how remain in the ground and any drilling waters wil surrounding surface. Given the area and groundwater anticipated clo base of the hole to 1m from surface to ensure w will be backfilled with surface soil and topsoil. D excavations are required. | e River as the methon no ancillary water st ever with the propo Il be contained in ab use to surface, rehab water does not cross | cored on site. osed drilling methods groundwater will oove ground sumps and not affect the oilitation will entail cementing from the s into different strata. The top of the hole |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No |
| How resilient is the environment to cope with impacts? | 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? | | | |
| Criteria Potential impacts | Water Impacts: Impacts from changes to floodir The nearest watercourse is the Macquarie River | | |
| | drilling area at its nearest point, however actual the river. There are several drainages within the progressed if they occur within 40m of any exist The drilling area is also within Floodplain wetlar approximately 200m east of the proposed drilling proposed drilling area. Should there be elevated subsides. | l collar locations are proposed drilling a ting drainages. nds. The Macquarie ng area. In times of | more likely to be drilled 1,200m west of rea. Proposed collars will not be Marshes Nature Reserve occurs high rainfall, this area can extend into the |
| Proposed management controls | The program is not expected to have an impact There are several drainages within the proposed occur within 40m of any existing drainages. Spe with the landholder who knows the ground con Drilling will not be undertaken during extreme w drilling will not be undertaken until water subsid drilling methods ensure that water is contained bearing strata. | d drilling area. Prop cific access to sites ditions the best. weather events. Sho des. Groundwater i | will be undertaken in close consultation uld there be elevated water levels this s not expected to cause concern as |
| | All proposed activities will be completed in dry s Wetland. Should there be elevated water levels this drillir Specific access to sites will be undertaken in clo | ng will not be under | taken until water subsides. |
| Duration | All proposed activities will be completed in dry s Wetland. Should there be elevated water levels this drilling | ng will not be under | taken until water subsides. |
| Application ranking | All proposed activities will be completed in dry s Wetland. Should there be elevated water levels this drillir Specific access to sites will be undertaken in clo conditions the best. | ng will not be under | taken until water subsides. |
| Duration Application ranking What is the confidence in predicting impacts? | All proposed activities will be completed in dry s Wetland. Should there be elevated water levels this drillir Specific access to sites will be undertaken in clo conditions the best. | ng will not be under | taken until water subsides. |
| Application ranking What is the confidence in predicting | All proposed activities will be completed in dry s Wetland. Should there be elevated water levels this drillir Specific access to sites will be undertaken in clo conditions the best. Short term | ng will not be under se consultation with Are further studies | taken until water subsides. the landholder who knows the ground |

| 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? | | | |
| Criteria | Water Impacts: Impacts from changes in surface | e or groundwater qu | ality and quantity. |
| Potential impacts | Groundwater: Groundwater encountered during drilling will be that water is contained in the same strata and n The Company have drilled several holes in this a There is a known water bore within the propose salinity of 501-1000ppm but no record of water area is GW801144, drilled to 12m with an uncor water level averaging out to 5m below existing a Surface water: The nearest watercourse is the Macquarie River drilling area at its nearest point, however actual the river. There are several drainages within the | not cross to differen area and have not en ed drilling area GWC depth on file. Anot hsolidated sand laye ground level. c, located 165m fror collar locations are | t water bearing strata. ncountered any difficulties with water. 104347, drilled to 243.80m recording her monitoring bore E of proposed drilling er at 9.5-11.5m recording water. Standing n the eastern boundary of the proposed more likely to be drilled 1,200m west of |
| | progressed if they occur within 40m of any exist The drilling area is also within Floodplain wetlan approximately 200m east of the proposed drillin proposed drilling area. Should there be elevated subsides. | nds. The Macquarie ng area. In times of | high rainfall, this area can extend into the |
| Proposed management controls | The program is not expected to have an impact There are several drainages within the proposed occur within 40m of any existing drainages. Spec with the landholder who knows the ground com Drilling will not be undertaken during extreme v drilling methods ensure that water is contained bearing strata. All proposed activities will be completed in dry s Wetland. Should there be elevated water levels this drillin Specific access to sites will be undertaken in clos conditions the best. Drilling is not expected to impact the Macquarie water remains in the ground, and there will be r Salinity of groundwater will be considered, how remain in the ground and any drilling waters wil surrounding surface. Given the area and groundwater anticipated clo base of the hole to 1m from surface to ensure w will be backfilled with surface soil and topsoil. D | d drilling area. Prop cific access to sites ditions the best. veather events. Sho des. Groundwater i in the same strata a season as the appro- ng will not be under se consultation with the River as the metho no ancillary water st ever with the propo- l be contained in at vater does not cross | will be undertaken in close consultation uld there be elevated water levels this s not expected to cause concern as and does not cross to different water val area is within the Macquarie Marshes taken until water subsides. In the landholder who knows the ground or of drilling will ensure that all ground cored on site. Used drilling methods groundwater will sove ground sumps and not affect the bilitation will entail cementing from the s into different strata. The top of the hole |
| | excavations are required. | | |
| Duration | Short term | | |
| | | | |
| Application ranking | | | |
| Application ranking What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No |
| What is the confidence in predicting | | studies required on impacts or | No |
| What is the confidence in predicting impacts? | High | studies required on impacts or mitigation? | |
| What is the confidence in predicting impacts? How resilient is the environment to | High | studies required on impacts or mitigation? What is the level of public | |
| What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | High Medium Resilience | studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | Low |
| What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | High Medium Resilience Yes | studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | Low |

| Potential impacts | There is no acid sulphate soil in this area. Only t | | |
|--|--|---|---|
| | approximately one week 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 mitigatic | ted where possible. fied after use by the program. Wind eros | Should compaction occur of the a landholder. Close consultation with the ion will be assessed in consultation with |
| | | | |
| | Earthworks and vegetation clearance is not required open. | uired for this drilling | g program. Sites are relatively flat and |
| | Drill pad areas, affecting approximately 10 x 20 should this be necessary care will be taken to en | | |
| | regrowth. DISTURBANCE: 600 square metres | | |
| 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 | | |
| Duration | ensure all ground is returned to existing state. Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or | Νο |
| How resilient is the environment to cope with impacts? | High Resilience | mitigation? 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: Impacts on land with hi | gh agricultural capa | bility. |
| Potential impacts | There is no acid sulphate soil in this area. Only t | Soil & Stability Impacts: Impacts on land with high agricultural capability. There is no acid sulphate soil in this area. Only three drillholes are proposed and this drilling is lik approximately one week per hole. Due to the sensitivity of the soil, access will be restricted to o | |
| | personnel and vehicle movement will be restric temporary access routes, this will likely be scari landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not requ open. | ted where possible. fied after use by the program. rith the landholder p | Should compaction occur of the e landholder. Close consultation with the prior to site access and mitigation |
| | Drill pad areas, affecting approximately 10 x 200 should this be necessary care will be taken to en regrowth. DISTURBANCE: 600 square metres AIS Level 1 provided. The proposed drilling area | nsure to leave root : | stock to enable existing vegetation |
| | Classification, which is moderate to extremely s Landowner. No issues detected by RR on 11/4/2 | | and use agricultural- Communication with |
| Proposed management controls | There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to 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 exist tracks where possible, should soil compaction require scarification then the landholder will manage a ensure all ground is returned to existing state. | | eave root stock to enable existing al impact to the soil. Utilising existing then the landholder will manage and |
| | Due to the sensitivity of the soil, access will be r | restricted to only vit | al personnel and vehicle movement will |
| | be restricted where possible. Should compactio scarified after use by the landholder. Close cons this program. Wind erosion will be assessed in c | sultation with the la | ndholder will be maintained throughout |
| | be restricted where possible. Should compactio scarified after use by the landholder. Close cons this program. Wind erosion will be assessed in or mitigation measures considered. Salinity of groundwater will be considered, how remain in the ground and any drilling waters wi surrounding surface. | sultation with the la consultation with th vever with the propo Il be contained in at | ndholder will be maintained throughout e landholder prior to site access and osed drilling methods groundwater will bove ground sumps and not affect the |
| Duration | be restricted where possible. Should compactio scarified after use by the landholder. Close cons this program. Wind erosion will be assessed in o mitigation measures considered. Salinity of groundwater will be considered, how remain in the ground and any drilling waters wi | sultation with the la consultation with th vever with the propo Il be contained in at | ndholder will be maintained throughout e landholder prior to site access and osed drilling methods groundwater will bove ground sumps and not affect the |

| What is the confidence in predicting | High | Are further | Νο |
|--|---|--|---|
| What is the confidence in predicting impacts? | High | studies | NO |
| impacts: | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | Medium Resilience | What is the | Low |
| | Medium Resilience | | 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 | Soil & Stability Impacts: Loss of soil from wind o | r water erosion. | |
| Potential impacts | There is no acid sulphate soil in this area. Only t approximately one week per hole. Due to the se | ensitivity of the soil, | access will be restricted to only vital |
| | personnel and vehicle movement will be restric | | • |
| | temporary access routes, this will likely be scari | | e langholder. Close consultation with the |
| | landholder will be maintained throughout this p | - | |
| | Wind erosion will be assessed in consultation w | ith the landholder p | prior to site access and mitigation |
| | measures considered. | | |
| | 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 20r | | |
| | should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation | | |
| | regrowth. | | |
| | DISTURBANCE: 600 square metres | | |
| | AIS Level 1 provided. The proposed drilling area covers soil types 4, 5 and 7 from the Land and Soil Capability | | |
| | Classification, which is moderate to extremely severe limitations. Land use agricultural- Communication with | | |
| | Landowner. No issues detected by RR on 11/4/2 | 2024. | |
| Proposed management controls | There will be no vegetation clearing for this drill | l program. Minor cle | earing 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. | equire searmeation | then the landholder will manage and |
| | | estricted to only wit | al porconnal and vahiola movement will |
| | 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, how | ever with the propo | osed drilling methods groundwater will |
| | remain in the ground and any drilling waters will | ll be contained in ab | oove ground sumps and not affect the |
| | surrounding surface. | | |
| | The land is currently utilsed for agricultural graz | ing purposes. The la | and use will not be changed during or |
| | after the proposed drilling works. | | |
| Duration | Short term | | |
| Application ranking | | | |
| | | Arra fronth an | No |
| What is the confidence in bredicting | High | Are further | |
| What is the confidence in predicting impacts? | High | Are further studies | |
| what is the confidence in predicting impacts? | High | studies | |
| | High | studies required on | |
| | High | studies required on impacts or | |
| impacts? | | studies required on impacts or mitigation? | |
| impacts? How resilient is the environment to | High Medium Resilience | studies required on impacts or mitigation? What is the | Low |
| impacts? | | studies required on impacts or mitigation? What is the level of public | |
| How resilient is the environment to cope with impacts? | Medium Resilience | studies required on impacts or mitigation? What is the level of public concern? | Low |
| impacts? How resilient is the environment to | | studies required on impacts or mitigation? What is the level of public concern? Ranking of | |
| How resilient is the environment to cope with impacts? | Medium Resilience | studies required on impacts or mitigation? What is the level of public concern? | Low |
| How resilient is the environment to cope with impacts? | Medium Resilience | studies required on impacts or mitigation? What is the level of public concern? Ranking of | Low |
| How resilient is the environment to cope with impacts? | Medium Resilience | studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | Low |
| How resilient is the environment to cope with impacts? Can the impacts be reversed? | Medium Resilience Yes | studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | Low |
| impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? | Medium Resilience Yes Partly | studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | Low |

| Potential impacts | There is no acid sulphate soil in this area. Only | three drillholes are p | proposed and this drilling is likely to take | | |
|--------------------------------------|--|--|--|--|--|
| | approximately one week per hole. Due to the sensitivity of the soil, access will be restricted to only vital | | | | |
| | personnel and vehicle movement will be restric | ted where possible. | Should compaction occur of the | | |
| | temporary access routes, this will likely be scari | ified after use by the | e landholder. Close consultation with the | | |
| | landholder will be maintained throughout this | orogram. | | | |
| | Wind erosion will be assessed in consultation w | /ith the landholder p | prior to site access and mitigation | | |
| | measures considered. | | _ | | |
| | Earthworks and vegetation clearance is not req open. | uired for this drilling | g program. Sites are relatively flat and | | |
| | Drill pad areas, affecting approximately 10 x 20 | m may require mino | or clearing of grass from the surface | | |
| | should this be necessary care will be taken to e | | | | |
| | regrowth. | | | | |
| | DISTURBANCE: 600 square metres | | | | |
| | AIS Level 1 provided. The proposed drilling area | | | | |
| | Classification, which is moderate to extremely s Landowner. No issues detected by RR on 11/4/2 | | and use agricultural- Communication with | | |
| Proposed management controls | There will be no vegetation clearing for this dril | l program. Minor cl | earing of grass may be required to make | | |
| | sites safe, should this be necessary care will be | taken to ensure to I | eave root stock to enable existing | | |
| | vegetation regrowth. Minimal surface disturban tracks where possible, should soil compaction r | | | | |
| | ensure all ground is returned to existing state. | equire scarification | then the landholder will manage and | | |
| | Due to the sensitivity of the soil, access will be | restricted to only vit | al personnel and vehicle movement will | | |
| | be restricted where possible. Should compactic | | - | | |
| | scarified after use by the landholder. Close con | | | | |
| | | | 0 | | |
| | mitigation measures considered. | 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. | | | | |
| | The land is currently utilsed for agricultural graz | zing purposes. The la | and use will not be changed during or | | |
| | after the proposed drilling works. | | | | |
| Duration | Short term | | | | |
| Application ranking | | | | | |
| What is the confidence in predicting | High | Are further | No | | |
| impacts? | | studies | | | |
| | | required on | | | |
| | | impacts or | | | |
| | | mitigation? | | | |
| How resilient is the environment to | Medium Resilience | What is the | Low | | |
| cope with impacts? | | level of public | | | |
| | | concern? | | | |
| Can the impacts be reversed? | Yes | Ranking of | Low | | |
| | | potential | 2011 | | |
| | | significance | | | |
| Can the impacts be mitigated? | Partly | Justification for r | anking | | |
| Do the operations comply with | Yes | Justification for f | | | |
| standards, plans, policies? | 163 | | | | |
| Criteria | Soil & Stability Impacts: Increased land instabili | ty with high risks fro | om land slides or subsidence | | |
| | | | | | |
| Potential impacts | There is no acid sulphate soil in this area. Only | | | | |
| | approximately one week per hole. Due to the s | | | | |
| | 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 | | |
| | | - | e landholder. Close consultation with the | | |
| | landholder will be maintained throughout this | orogram. | | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w | orogram. | | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. | program. vith the landholder p | prior to site access and mitigation | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not req | program. vith the landholder p | prior to site access and mitigation | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not req open. | orogram. vith the landholder p uired for this drilling | prior to site access and mitigation g program. Sites are relatively flat and | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not req open. Drill pad areas, affecting approximately 10 x 20 | orogram. vith the landholder p uired for this drilling m may require mino | prior to site access and mitigation g program. Sites are relatively flat and or clearing of grass from the surface, | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not req open. | orogram. vith the landholder p uired for this drilling m may require mino | prior to site access and mitigation g program. Sites are relatively flat and pr clearing of grass from the surface, | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not req open. Drill pad areas, affecting approximately 10 x 20 | orogram. vith the landholder p uired for this drilling m may require mino | prior to site access and mitigation g program. Sites are relatively flat and or clearing of grass from the surface, | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. 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 | orogram. vith the landholder p uired for this drilling m may require mino | prior to site access and mitigation g program. Sites are relatively flat and or clearing of grass from the surface, | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. 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. | orogram. vith the landholder p uired for this drilling m may require mino nsure to leave root | prior to site access and mitigation g program. Sites are relatively flat and or clearing of grass from the surface, stock to enable existing vegetation | | |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. 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: 600 square metres | orogram. vith the landholder p uired for this drilling m may require mino nsure to leave root a covers soil types 4, | prior to site access and mitigation g program. Sites are relatively flat and or clearing of grass from the surface, stock to enable existing vegetation 5 and 7 from the Land and Soil Capabilit | | |

| 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. 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. The land is currently utilsed for agricultural grazing purposes. The land use will not be changed during or |
| | after the proposed drilling works. |
| Duration | Short term |

| Application ranking | | | |
|---|--|--|--|
| What is the confidence in predicting | High | Are further | No |
| impacts? | | studies | |
| | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Partly | Justification for ra | anking |
| Do the operations comply with | Yes | | |
| standards, plans, policies? | | | |
| Criteria | Noise & Vibration Impacts: Results in increased | noise or vibration. | |
| Pronocod management controls | as residences, educational establishments, med establishments, intensive livestock agriculture, Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 4000 on Map1 Site Plan. Percussion drilling can have localised vibration i Drilling unlikely to cause vibration impacts . | etc. eek. 1 homestead (T m N from one of the mpacts. | he Mole) within the proposed drilling e tentative locations - Macquarie 4 noted |
| Proposed management controls | Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling doe generate excessive noise. Drilling will not occur within 200m of sensitive receptors. Drilling works will undertaken in daylight hours only. The landholders are fully informed with the proposed drilling of this There are no further sensitive receptors nearby. | | ensitive receptors. Drilling works will be |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No |
| How resilient is the environment to | 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 | Yes | | |
| standards, plans, policies? | | | |
| Criteria | | | |
| Criteria | Noise & Vibration Impacts: Affects sensitive rec | eptors. | |

| Potential impacts | Noise from vehicles, plant and machinery results in unacceptable impacts on nearby sensitive as residences, educational establishments, medical facilities, places of worship, animal boardin establishments, intensive livestock agriculture, etc. | | |
|---|---|---|--|
| | Percussion drilling can have localised vibration impacts. | | |
| | Drilling unlikely to cause vibration impacts . | | |
| | Hours of Operations: 12 hour shifts, 7 days a week. 1 homestead (The Mole) within the proposed drilling location. This homestead is located approx 400m N from one of the tentative locations - Macquarie 4 no on Map1 Site Plan. | | |
| Proposed management controls | Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 400 on Map1 Site Plan. | • | , |
| | Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling doe generate excessive noise. Drilling will not occur within 200m of sensitive receptors. Drilling works will be undertaken in daylight h only. The landholders are fully informed with the proposed drilling of this hole. There are no further se | | |
| | receptors nearby. | | |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No |
| How resilient is the environment to cope with impacts? | 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 | | 0 |
| Criteria | Coastal Location & Processes: Affects coastal pr climate change conditions. | Location & Processes: Affects coastal processes and coastal hazards, including those under projec | |
| Potential impacts | NA – the proposed activity will not effect Coast | al locations or proce | esses |
| Proposed management controls | NA – the proposed activity will not effect Coast | | |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | N/A | Are further studies required on impacts or | N/A |
| | | mitigation? | |
| 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 | Low |
| Can the impacts be mitigated? | N/A | Justification for r | anking |
| Do the operations comply with standards, plans, policies? | N/A | | |
| Criteria | Hazardous substances or chemicals: Impacts as hazardous substances or chemicals. | sociated with the us | e, generation, storage or transport of |
| Potential impacts | Diesel fuel is the only anticipated hydrocarbon diesel tank mounted on an auxiliary drill vehicle cleaned up and waste material removed from s waste facility. | e. A spill kit will alwa | iys be on site and minor spills will be |
| 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 | Short term | | |
| | | | |

| | | 1 | |
|--|---|---|--|
| What is the confidence in predicting | High | Are further | No |
| impacts? | | studies | |
| | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Fully | Justification for ra | anking |
| Do the operations comply with | Yes | | |
| standards, plans, policies? | | | |
| Criteria | Wastes & Emissions: Impacts to the environmer | nt resulting from the | e generation or disposal of wastes. |
| Potential impacts | There should be minimal impact to the environr | ment from the prop | osed short drilling program. Fuels |
| | maintained in appropriately bunded storage tar | nks. There will be no | disposal of drilling waste at site – all |
| | waste removed from site and disposed of at app | propriately licenced | waste facility. |
| Proposed management controls | Clean up any minor spills immediately and dispo | ose of any contamin | ated materials to an appropriately |
| | managed licenced facility. | | |
| | Drill core will be removed from site to a Compa | ov storage facility | nce drilling is complete, any minor spoil |
| | will be returned down the hole and all materials | | |
| | | | |
| | area made safe with all rubbish and drilling equipment removed from site at end of drilling program. | | |
| | Due to groundwater being shallow in this area, holes will be cemented from base to 1m below surface to | | |
| | ensure groundwater from different strata is not affected. Subsoil and topsoil will be replaced over drill collar position. | | |
| Duration | Short term | | |
| | | | |
| Application ranking What is the confidence in predicting | High | Are further | Νο |
| impacts? | i ligit | studies | NO |
| impacts: | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | Madium Dasilianaa | | Low |
| 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 | | anking |
| Do the operations comply with | Partly Yes | significance | anking |
| · · · | Yes | significance Justification for ra | |
| Do the operations comply with | | significance Justification for ra | |
| Do the operations comply with standards, plans, policies? | Yes | significance Justification for ra | |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water | significance Justification for ra catchments, wetlar | ds, natural water bodies, riparian zones |
| Do the operations comply with standards, plans, policies? | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. | significance Justification for ra catchments, wetlar | ds, natural water bodies, riparian zones |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. There will be no impact to the Macquarie Marsh Drilling to be conducted in the dry season. | significance Justification for ra catchments, wetlar nes Wetlands during | ds, natural water bodies, riparian zones g this proposed short drilling program. |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. There will be no impact to the Macquarie Marsh | significance Justification for ra catchments, wetlar nes Wetlands during | ds, natural water bodies, riparian zones g this proposed short drilling program. |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. There will be no impact to the Macquarie Marsh Drilling to be conducted in the dry season. | significance Justification for ra catchments, wetlar nes Wetlands during east of the proposed | ds, natural water bodies, riparian zones this proposed short drilling program. d drilling area - approximately 200m. |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. There will be no impact to the Macquarie Marsh Drilling to be conducted in the dry season. The Macquarie Marshes is located close to the e | significance Justification for ra catchments, wetlar nes Wetlands during east of the proposed | ds, natural water bodies, riparian zones this proposed short drilling program. d drilling area - approximately 200m. |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. There will be no impact to the Macquarie Marsh Drilling to be conducted in the dry season. The Macquarie Marshes is located close to the e When the marshes occasionally flood the propo | significance Justification for ra catchments, wetlar nes Wetlands during east of the proposed | ds, natural water bodies, riparian zones this proposed short drilling program. d drilling area - approximately 200m. |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. There will be no impact to the Macquarie Marsh Drilling to be conducted in the dry season. The Macquarie Marshes is located close to the e When the marshes occasionally flood the propo | significance Justification for ra catchments, wetlar nes Wetlands during east of the proposed sed drilling area wo | ds, natural water bodies, riparian zones g this proposed short drilling program. d drilling area - approximately 200m. ruld be affected. Site access will not be |
| Do the operations comply with standards, plans, policies? Criteria | Yes Wastes & Emissions: Impacts on drinking water or flood prone areas. There will be no impact to the Macquarie Marsh Drilling to be conducted in the dry season. The Macquarie Marshes is located close to the e When the marshes occasionally flood the propo undertaken in times of flood. | significance Justification for ra catchments, wetlar nes Wetlands during east of the proposed sed drilling area wo | ds, natural water bodies, riparian zones g this proposed short drilling program. d drilling area - approximately 200m. Huld be affected. Site access will not be ervation Act 1999 (EPBC Act) comes into |

| Proposed management controls | Clean up any minor spills immediately and disp managed licenced facility. | ose of any contamir | nated materials to an appropriately | |
|---|---|--|---|--|
| | NON-CEA triggered by proximity of Ramsar wetland. The applicant held a pre-referral meeting with the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) on 28 March 2024. The referral was in relation to a potential impact on the Ramsar listed Wetland – the Macquarie Marshes. | | | |
| | | | | |
| | During their meeting, DCCEEW advised the app meeting would be provided, and that the applic whether a significant impact would occur. | | | |
| | Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponent to obtain any separate Commonwealth approvals prior to proceeding. | | | |
| | The applicant completed a self-assessment with impact to the Wetlands and Macquarie Marshe management of identified risks and sensitivities | s, sufficient mitigati | 0 | |
| Duration | Short term | | | |
| Application ranking What is the confidence in predicting impacts? | High | Are further studies required on | No | |
| | | impacts or mitigation? | | |
| How resilient is the environment to cope with impacts? | 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 standards, plans, policies? | Yes | | | |
| 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 Macquarie Mars | hes Wetlands during | g this proposed short drilling program. | |
| Proposed management controls | Drilling to be conducted in the dry season. Clean up any minor spills immediately and disp | acc of any contamin | acted materials to an appropriately | |
| rioposed management controls | managed licenced facility. Clean up any minor spills immediately and disp | · | | |
| | managed licenced facility. NON-CEA triggered by proximity of Ramsar wet | land. | | |
| | The applicant held a pre-referral meeting with the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) on 28 March 2024. The referral was in relation to a potential impact on the Ramsar listed Wetland – the Macquarie Marshes. | | | |
| | During their meeting, DCCEEW advised the applicant that no formal response regarding the pre-referral meeting would be provided, and that the applicant should undertake a self-assessment to determine whether a significant impact would occur. Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponent to obtain any separate Commonwealth approvals prior to proceeding. | | | |
| | | | | |
| | The applicant completed a self-assessment with impact to the Wetlands and Macquarie Marshe management of identified risks and sensitivities | s, sufficient mitigati | | |

| Duration | Short term | | |
|---|---|--|--|
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No |
| How resilient is the environment to cope with impacts? | 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 | Yes | | |
| standards, plans, policies? Criteria | Wastes and Emissions: Impacts on coastlines or landforms. | dunes, alpine areas | s, karst features or other unique |
| Potential impacts | N/A - There should be minimal impact to the en maintained in appropriately bunded storage tar waste removed from site and disposed of at app | nks. There will be no | disposal of drilling waste at site – all |
| Proposed management controls | N/A Clean up any minor spills immediately and managed licenced facility. | <u> </u> | · · · · · · · · · · · · · · · · · · · |
| Duration | Short term | | |
| Application ranking What is the confidence in predicting impacts? | N/A | Are further studies required on impacts or | N/A |
| How resilient is the environment to cope with impacts? | N/A | mitigation? What is the level of public | N/A |
| Can the impacts be reversed? | N/A | concern? Ranking of potential | Low |
| | 21/2 | significance | |
| Can the impacts be mitigated? Do the operations comply with | N/A N/A | Justification for ra | anking |
| standards, plans, policies? | | areas, areas with slo | opes of greater than 18 degrees. |
| Potential impacts | Wastes & Emissions: Impacts on erosion prone areas, areas with slopes of greater than 18 degrees. 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. NA - The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. | | |
| Proposed management controls | Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. NA - The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. | | |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | N/A | Are further studies required on impacts or mitigation? | N/A |
| How resilient is the environment to cope with impacts? | N/A | What is the level of public | N/A |
| Can the impacts be reversed? | N/A | concern? Ranking of potential significance | Low |
| | 51/0 | | |
| Can the impacts be mitigated? | I N/A | JUSTIFICATION for ra | anking |
| Can the impacts be mitigated? Do the operations comply with | N/A N/A | Justification for ra | апкіпд |

| Criteria | Wastes & Emissions: Impacts on subsidence or | slip areas. | |
|---|--|---|---|
| Potential impacts | There should be minimal impact to the environ | ment from the prop | osed 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. | | |
| | The area is predominantly open grazing land wi | th sparse vegetation | n. Any areas of vegetation will be avoide |
| | and do not need to be disturbed for this drilling | | |
| | channels that will be avoided for this program. | | |
| Proposed management controls | Clean up any minor spills immediately and dispo | ose of any contamin | ated materials to an appropriately |
| | managed licenced facility. | | |
| | The area is predominantly open grazing land wi | th snarse vegetation | n Any areas of vegetation will be avoide |
| | and do not need to be disturbed for this drilling | | |
| | channels that will be avoided for this program. | | |
| Duration | Short term | | |
| Application ranking | | A sector the sec | AL - |
| What is the confidence in predicting impacts? | High | Are further studies | No |
| 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 |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Partly | Justification for ra | anking |
| Do the operations comply with standards, plans, policies? | Yes | | |
| | Wastes & Emissions: Impacts on areas with acid | sulphate_sodic.or. | highly permeable soils |
| | Wastes & Emissions: Impacts on areas with acid sulphate, sodic or highly permeable soils. | | |
| Criteria Potential impacts | • | hree drillholes are r | proposed and this drilling is likely to take |
| Potential impacts | There is no acid sulphate soil in this area. Only t | | |
| | There is no acid sulphate soil in this area. Only t approximately one week per hole. Due to the se | ensitivity of the soil, | access will be restricted to only vital |
| | There is no acid sulphate soil in this area. Only t approximately one week per hole. Due to the se personnel and vehicle movement will be restric | ensitivity of the soil, ted where possible. | access will be restricted to only vital Should compaction occur of the |
| | There is no acid sulphate soil in this area. Only t approximately one week per hole. Due to the se personnel and vehicle movement will be restric temporary access routes, this will likely be scari | ensitivity of the soil, ted where possible. fied after use by the | access will be restricted to only vital Should compaction occur of the |
| | There is no acid sulphate soil in this area. Only t approximately one week 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 | ensitivity of the soil, ted where possible. fied after use by the program. | access will be restricted to only vital Should compaction occur of the e landholder. Close consultation with the |
| | There is no acid sulphate soil in this area. Only t approximately one week 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 Wind erosion will be assessed in consultation w | ensitivity of the soil, ted where possible. fied after use by the program. | access will be restricted to only vital Should compaction occur of the e landholder. Close consultation with the |
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| Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? | There is no acid sulphate soil in this area. Only t approximately one week 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 Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not requ open. Drill pad areas, affecting approximately 10 x 200 should this be necessary care will be taken to en regrowth. DISTURBANCE: 600 square metres AIS Level 1 provided. The proposed drilling area Classification, which is moderate to extremely s Landowner. No issues detected by RR on 11/4/2 Drill core will be removed from site to a Compa will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affecte Short term High | ensitivity of the soil, ted where possible. fied after use by the orogram. ith the landholder p uired for this drilling m may require mino nsure to leave root s covers soil types 4, evere limitations. La 2024. ny storage facility. C s will be removed fro ipment removed fro ill be cemented fro ed. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | Access will be restricted to only vital Should compaction occur of the e landholder. Close consultation with the prior to site access and mitigation g program. Sites are relatively flat and or clearing of grass from the surface, stock to enable existing vegetation 5 and 7 from the Land and Soil Capabilit and use agricultural- Communication wit Droce drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to m base to 1m below surface to ensure No Low |
| Proposed management controls 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? | There is no acid sulphate soil in this area. Only t approximately one week 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 Wind erosion will be assessed in consultation w measures considered. Earthworks and vegetation clearance is not requ open. Drill pad areas, affecting approximately 10 x 200 should this be necessary care will be taken to en regrowth. DISTURBANCE: 600 square metres AIS Level 1 provided. The proposed drilling area Classification, which is moderate to extremely s Landowner. No issues detected by RR on 11/4/2 Drill core will be removed from site to a Compal will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affecte Short term High Medium Resilience Uncertain | ensitivity of the soil, ted where possible. fied after use by the orogram. ith the landholder p uired for this drilling m may require mino nsure to leave root s covers soil types 4, evere limitations. La 2024. ny storage facility. C s will be removed fro ipment removed fro ill be cemented fro ed. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | Access will be restricted to only vital Should compaction occur of the e landholder. Close consultation with the prior to site access and mitigation g program. Sites are relatively flat and or clearing of grass from the surface, stock to enable existing vegetation 5 and 7 from the Land and Soil Capabilit and use agricultural- Communication wit Droce drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to m base to 1m below surface to ensure No Low |

| Potential impacts | There should be minimal impact to the environ maintained in appropriately bunded storage tar waste removed from site and disposed of at ap | nks. There will be no | o disposal of drilling waste at site – all |
|--|--|--|---|
| | There is no acid sulphate soil in this area. Only t approximately one week per hole. Due to the su personnel and vehicle movement will be restrict temporary access routes, this will likely be scari | ensitivity of the soil ted where possible ified after use by the | , access will be restricted to only vital . Should compaction occur of the |
| | landholder will be maintained throughout this p Wind erosion will be assessed in consultation w measures considered. | - | prior to site access and mitigation |
| | 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 en regrowth. | | |
| | DISTURBANCE: 600 square metres AIS Level 1 provided. The proposed drilling area Classification, which is moderate to extremely s Landowner. No issues detected by RR on 11/4/2 | severe limitations. L | |
| Proposed management controls | Clean up any minor spills immediately and disponent of the second | | nated materials to an appropriately |
| | Drill core will be removed from site to a Compa will be returned down the hole and all material area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affected | s will be removed fr ipment removed fr vill be cemented fro | om site. The collar will be capped and om site at end of drilling program. Due to |
| | Salinity of groundwater will be considered, how remain in the ground and any drilling waters wi surrounding surface. | | |
| Duration | Short term | | |
| Application ranking | | 1 | 1 |
| What is the confidence in predicting impacts? | High | Are further studies | No |
| | | 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? | Uncertain | 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 | Wastes & Emissions: Impacts on areas with deg | raded or contamina | ated land. |
| Potential impacts | There should be minimal impact to the environ maintained in appropriately bunded storage tar waste removed from site and disposed of at ap | nks. There will be no | o disposal of drilling waste at site – all |
| | There are no acid sulfate soils within this area. The proposed drilling area covers soil types 4, 5 and 7 from the Land and Soil Capability Classification, which is moderate to extremely severe limitations. Only three drillholes are proposed and this drilling is likely to | | |
| | take approximately one week per hole. Due to a personnel and vehicle movement will be restrict temporary access routes, this will likely be scari- landholder will be maintained throughout this p the landholder prior to site access and mitigatic considered, however with the proposed drilling drilling waters will be contained in above ground | ted where possible ified after use by the program. Wind eros on measures consid methods groundwa | Should compaction occur of the e landholder. Close consultation with the ion will be assessed in consultation with ered. Salinity of groundwater will be ater will remain in the ground and any |
| | The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | g program. Topograj | ohy is typically flat with many drainage |

| | Drill core will be removed from site to a Company storage facility. Once drilling is complete, any r will be returned down the hole and all materials will be removed from site. The collar will be cap area made safe with all rubbish and drilling equipment removed from site at end of drilling progr groundwater being shallow in this area, holes will be cemented from base to 1m below surface to groundwater from different strata is not affected. | | |
|--|--|--|--|
| | Salinity of groundwater will be considered, how remain in the ground and any drilling waters wi surrounding surface. | | |
| Duration | Short term | | |
| Application ranking | Short term | | |
| What is the confidence in predicting | High | Are further | No |
| impacts? | ingn | studies required on impacts or | |
| How resilient is the environment to | Medium Resilience | mitigation? | Low |
| 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 | Low |
| | | significance | |
| Can the impacts be mitigated? | Partly | Justification for ra | anking |
| Do the operations comply with standards, plans, policies? | Yes | | |
| Criteria | Wastes & Emissions: Impacts on areas with deg | raded or contamina | ted water (ground or surface). |
| Potential impacts | There should be minimal impact to the environment maintained in appropriately bunded storage tar waste removed from site and disposed of at app | nks. There will be no | disposal of drilling waste at site – all |
| | The proposed drilling area covers soil types 4, 5 is moderate to extremely severe limitations. On take approximately one week per hole. Due to t 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 mitigatic considered, however with the proposed drilling drilling waters will be contained in above groun | Ily three drillholes a the sensitivity of the ted where possible. fied after use by the program. Wind eros on measures conside methods groundwa | re proposed and this drilling is likely to soil, access will be restricted to only vita Should compaction occur of the andholder. Close consultation with the ton will be assessed in consultation with ered. Salinity of groundwater will be ater will remain in the ground and any |
| | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage | | |
| | | am. Access to proposed collar locations will be undertake | |
| | channels that will be avoided for this program. <i>i</i> close consultation with the landholders. | Access to proposed | |
| Proposed management controls | close consultation with the landholders. Drill core will be removed from site to a Compa- will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w | ny storage facility. C s will be removed fr ipment removed fro rill be cemented fro | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to |
| | close consultation with the landholders. Drill core will be removed from site to a Compa- will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affected | ny storage facility. C s will be removed fr ipment removed fro rill be cemented fro | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to |
| Duration | close consultation with the landholders. Drill core will be removed from site to a Compa- will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w | ny storage facility. C s will be removed fr ipment removed fro rill be cemented fro | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to |
| Duration | close consultation with the landholders. Drill core will be removed from site to a Compa- will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affected | ny storage facility. C s will be removed fr ipment removed fro vill be cemented fro ed. Are further studies required on impacts or | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to |
| Duration Application ranking What is the confidence in predicting | close consultation with the landholders. Drill core will be removed from site to a Compa- will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affecte Short term | ny storage facility. C s will be removed fr ipment removed fro vill be cemented fro ed. Are further studies required on | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to m base to 1m below surface to ensure |
| Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to | close consultation with the landholders. Drill core will be removed from site to a Compa will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affecte Short term High | ny storage facility. C s will be removed fr ipment removed fro rill be cemented fro ed. Are further studies required on impacts or mitigation? What is the level of public | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to m base to 1m below surface to ensure |
| Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | close consultation with the landholders. Drill core will be removed from site to a Compa will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affecte Short term High Medium Resilience | ny storage facility. C s will be removed fr ipment removed fro ed. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to m base to 1m below surface to ensure No |
| Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | close consultation with the landholders. Drill core will be removed from site to a Compa will be returned down the hole and all materials area made safe with all rubbish and drilling equ groundwater being shallow in this area, holes w groundwater from different strata is not affecte Short term High Medium Resilience | ny storage facility. (s will be removed fr ipment removed fro rill be cemented fro ed. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re | collar locations will be undertaken in Once drilling is complete, any minor spoil om site. The collar will be capped and om site at end of drilling program. Due to m base to 1m below surface to ensure No Low |

| Potential impacts | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | |
|--|---|--|--|
| | DISTURBANCE: Earthworks and veg clearing is r Drill pad areas (approx 10 x 20m) may require r | ninor clearing of gra | ass from the surface. Should this be |
| Proposed management controls | necessary, care will be taken to ensure to leave root stock to enable existing vegetation regrowth. Any areas of vegetation will be avoided. | | |
| | | | |
| | SEED search 10.1.24: PCTs within (PCT 168, 181 and 204) and surrou While all but PCT 454 associated with NSW liste Great Artesian Basin). None associated with MI | ed TEC 10065 (Artes | ian Springs Ecological Community in the |
| | MNES search dated 19/4/23 – | | |
| | - the proposed activity is "Within Ramsa | ar site (Macquarie M | larshes)" |
| | - Endangered TECs: "Coolibah - Black Bo Belt South Bioregions" AND "Poplar Box Grassy to occur within area - however PCTs from SEED | Woodland on Alluv | |
| | The applicant held a pre-referral meeting with the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) on 28 March 2024. The referral was in relation to a potential impact on the Ramsar listed Wetland – the Macquarie Marshes. During their meeting, DCCEEW advised the applicant that no formal response regarding the pre-referral meeting would be provided, and that the applicant should undertake a self-assessment to determine | | |
| | whether a significant impact would occur. | | |
| | Under the Commonwealth EPBC Act, the onus is whether there is likely to be a significant impact Commonwealth Minister's consideration as to v is required, then this is a separate approval pro- activity cannot be undertaken until this Commo- approval to undertake exploration activities un to obtain any separate Commonwealth approve | t on any MNES and whether or not the p cess under Common onwealth approval h der NSW legislation | if so, to prepare a referral for the project would require approval. If approva nwealth legislation and the exploration has been granted. The granting of an does not negate the need for a proponen |
| | The applicant completed a self-assessment 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. | | |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No |
| How resilient is the environment to | Medium Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| Constitution of the second | | concern? | |
| 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 standards, plans, policies? | Yes | | |
| Criteria | Threatened Fauna Species: Any adverse effect of local population of the species is likely to be pla | | |

| Potential impacts | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage |
|-------------------|---|
| | channels that will be avoided for this program. Access to proposed collar locations will be undertaken in |
| | close consultation with the landholders. |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. |
| | Drill pad areas (approx 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. |
| | There are many flora and fauna records that come up on the BioNet search as being of protected or vulnerable status over the proposed area, however 3 drillholes are planned within a large area and locations are shown on Map3 attached. Areas of vegetation where most of these sightings occur do not need to be affected. |
| | The area is not located within any areas of high biodiversity; however, it is listed as a Wetland. This area is occasionally flooded if the Macquarie Marshes have high water levels, and 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. |
| | The olive perchlet has been sighted within one of the larger drainage areas that runs approximately north south through the proposed drilling area. This should not be affected during the proposed works which will only occur during dry periods. |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within Bushfire Prone Land Veg Cat 3 (Medium Risk). All holes within floodplain wetland. |
| | Bionet sightings of several endangered species within the vicinity of proposed drilling: Australasian Bittern, Australian Painted Snipe, Black-necked Stork, South-eastern hooded robin (consistent with MNES report). |
| | PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. While all but PCT 454 associated with NSW listed TEC 10065 (Artesian Springs Ecological Community in the Great Artesian Basin). None associated with MNES TECs (Federally listed). |
| | MNES search dated 19/4/23 – |
| | the proposed activity is "Within Ramsar site (Macquarie Marshes)" Endangered TECs: "Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow |
| | Belt South Bioregions" AND "Poplar Box Grassy Woodland on Alluvial Plains Endangered Community" likely to occur within area |
| | - Endangered species likely to occur within the area: Major Mitchell's Cockatoo (eastern), South- |
| | eastern Hooded Robin, Grey Snake, Fork-tailed Swift - Endangered species known to occur within the area: Australian Painted Snipe, Australasian Bittern |
| | The olive perchlet has been sighted within one of the larger drainage areas that runs approximately |
| | north south through the proposed drilling area. This should not be affected during the proposed works which |
| | will only occur during dry periods. |

| Proposed management controls | On the MNES search there are 22 listed Threate 8 Listed Migratory Species. Of the 22 threatene are considered to be critically endangered. The Department for Environment. This species is no most vulnerable if it is sighted. The Silver Perch works. The four threatened communities show area there are no recovery plans for this specie | d species the Silver Curlew is migratory ot known to breed ir will be in waterway Coolibah Black Box | Perch, Bidyan and the Curlew Sandpiper y and if sighted will be reported to the n Australia, therefore will not be at its ys which will not be affected by proposed |
|---|---|--|--|
| | The Macquarie Marshes is located close to the When the marshes occasionally flood the propo undertaken in times of flood. | | |
| | The Commonwealth Environment Protection ar force when a proposed action is likely to have a significance (MNES), such as a listed threatened | a significant impact o | on a matter of national environmental |
| | The applicant held a pre-referral meeting with the Environment and Water (DCCEEW)on 28 M The referral was in relation to a potential impact | arch 2024. | |
| | During their meeting, DCCEEW advised the applicant that no formal response regarding the pre-referral meeting would be provided, and that the applicant should undertake a self-assessment to determine whether a significant impact would occur. Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponen to obtain any separate Commonwealth approvals prior to proceeding. The applicant completed a self-assessment 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. Drilling during dry season only, 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. | | |
| | | | |
| Duration | N/A | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No |
| How resilient is the environment to cope with impacts? | Medium Resilience | What is the level of public | Low |
| Can the impacts be reversed? | Uncertain | concern? Ranking of potential significance | Low |
| | | - | |
| Can the impacts he mitigated? | Partly | Instification for r | anking |
| Can the impacts be mitigated? Do the operations comply with standards, plans, policies? | Partly Yes | Justification for r | anking |

| Potential impacts | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage |
|-------------------|---|
| | channels that will be avoided for this program. Access to proposed collar locations will be undertaken in |
| | close consultation with the landholders. |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. |
| | Drill pad areas (approx 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. |
| | There are many flora and fauna records that come up on the BioNet search as being of protected or vulnerable status over the proposed area, however 3 drillholes are planned within a large area and locations are shown on Map3 attached. Areas of vegetation where most of these sightings occur do not need to be affected. |
| | The area is not located within any areas of high biodiversity; however, it is listed as a Wetland. This area is occasionally flooded if the Macquarie Marshes have high water levels, and 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. |
| | The olive perchlet has been sighted within one of the larger drainage areas that runs approximately north south through the proposed drilling area. This should not be affected during the proposed works which will only occur during dry periods. |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within Bushfire Prone Land Veg Cat 3 (Medium Risk). All holes within floodplain wetland. |
| | Bionet sightings of several endangered species within the vicinity of proposed drilling: Australasian Bittern, Australian Painted Snipe, Black-necked Stork, South-eastern hooded robin (consistent with MNES report). |
| | PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. While all but PCT 454 associated with NSW listed TEC 10065 (Artesian Springs Ecological Community in the Great Artesian Basin). None associated with MNES TECs (Federally listed). |
| | MNES search dated 19/4/23 – |
| | the proposed activity is "Within Ramsar site (Macquarie Marshes)" Endangered TECs: "Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow |
| | Belt South Bioregions" AND "Poplar Box Grassy Woodland on Alluvial Plains Endangered Community" likely to occur within area |
| | - Endangered species likely to occur within the area: Major Mitchell's Cockatoo (eastern), South- |
| | eastern Hooded Robin, Grey Snake, Fork-tailed Swift - Endangered species known to occur within the area: Australian Painted Snipe, Australasian Bittern |
| | The olive perchlet has been sighted within one of the larger drainage areas that runs approximately |
| | north south through the proposed drilling area. This should not be affected during the proposed works which |
| | will only occur during dry periods. |

| Drenesed menogement controls | On the MNICS search there are 22 listed Threats | and analise Alista | d Threatened Feelegical Communities and | | |
|---|--|--|---|--|--|
| Proposed management controls | On the MNES search there are 22 listed Threatened species, 4 listed Threatened Ecological Communities and 8 Listed Migratory Species. Of the 22 threatened species the Silver Perch, Bidyan and the Curlew Sandpiper are considered to be critically endangered. The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The Silver Perch will be in waterways which will not be affected by proposed works. The four threatened communities show Coolibah Black Box and Poplar Box Grassy to be likely in this area there are no recovery plans for this species. | | | | |
| | The Macquarie Marshes is located close to the east of the proposed drilling area - approximately 200m. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. | | | | |
| | The Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) comes into force when a proposed action is likely to have a significant impact on a matter of national environmental significance (MNES), such as a listed threatened species or ecological community. | | | | |
| | The applicant held a pre-referral meeting with the Environment and Water (DCCEEW)on 28 M The referral was in relation to a potential impact | arch 2024. | | | |
| | During their meeting, DCCEEW advised the applicant that no formal response regarding the pre-referral meeting would be provided, and that the applicant should undertake a self-assessment to determine whether a significant impact would occur. Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponent to obtain any separate Commonwealth approvals prior to proceeding. The applicant completed a self-assessment 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. | | | | |
| | | | | | |
| | | | | | |
| | Drilling during dry season only, the sites will no the landholders will continue regularly prior to favourable. Any areas of vegetation will be avoided and do Topography is typically flat with many drainage proposed collar locations will be undertaken in | proposed drilling to not need to be disti channels that will b | ensure that access conditions are urbed for this drilling program. be avoided for this program. Access to | | |
| Duration | N/A | | | | |
| Application ranking What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No | | |
| How resilient is the environment to cope with impacts? | Medium Resilience | What is the level of public | Low | | |
| Can the impacts be reversed? | Uncertain | concern? Ranking of potential significance | Low | | |
| Can the impacts be mitigated? | Partly | Justification for r | anking | | |
| Do the operations comply with | Yes | | · · · · · · · · · · · · · · · · · · · | | |
| standards, plans, policies? Criteria | Areas of outstanding biodiversity value/Critical biodiversity value under the Biodiversity Conse Fisheries Management Act 1994. | | | | |
| Potential impacts | There are no areas of critical habitat/area of ou | itstanding biodivers | ity within the approval area. | | |
| | As per following searches: 1. Key Fish Habitat (Critical habitat) - https://webmap.industry.nsw.gov.au/Html5Vie 2. Areas of Outstanding Biodiversity Value regis and-plants/biodiversity/areas-of-outstanding-b register | ster - https://www.e | environment.nsw.gov.au/topics/animals- | | |

| Proposed management controls | There are no areas of critical habitat/area of ou | tstanding biodivers | ity within the approval area. | | |
|---|---|---|---|--|--|
| | As per following searches: 1. Key Fish Habitat (Critical habitat) - https://webmap.industry.nsw.gov.au/Html5Viewer/index.html?viewer=Fisheries_Data_Portal 2. Areas of Outstanding Biodiversity Value register - https://www.environment.nsw.gov.au/topics/animals- and-plants/biodiversity/areas-of-outstanding-biodiversity-value/area-of-outstanding-biodiversity-value- register The small drilling program does not require vegetation clearance. Minor areas of disturbance will be | | | | |
| | Surface water should not be affected by the pro this program will be postponed as it is close to sites will be undertaken in close consultation w The Macquarie River is located approx 165-200 actual collar locations are more likely to be drill drillholes will be advanced within 200m of the f proposed area and drillholes will be moved so t | The small drilling program does not require vegetation clearance. Minor areas of disturbance will be rehabilitated within a couple of months and so minimal impact is envisaged. 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. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the be. The Macquarie River is located approx 165- 200m from the E boundary of proposed drilling area, however actual collar locations are more likely to be drilled 1,200m to the w of the river (see attached Map 4). No drillholes will be advanced within 200m of the Macquarie River. There are many drainage areas within the proposed area and drillholes will be moved so they do not sit within 40m of any drainages. There will be no storage of surface water nor disposal of water to surface. | | | |
| Duration | N/A | | | | |
| Application ranking What is the confidence in predicting impacts? | High | Are further studies required on impacts or | No | | |
| How resilient is the environment to cope with impacts? | Medium Resilience | mitigation? 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 standards, plans, policies? | Yes | | | | |
| Criteria | Endangered ecological community or critically e is likely to have an adverse effect on th occurrence is likely to be placed at risk of extine modify the composition of the ecological comm risk of extinction. | ne extent of the ecolorition, or 🛛 | logical community such that its local is likely to substantially and adversely | | |
| Potential impacts | The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is r Drill pad areas (approx 10 x 20m) may require r necessary, care will be taken to ensure to leave | program. Topograp Access to proposed not required. Sites a ninor clearing of gra | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ass from the surface. Should this be | | |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. | | | | |
| | While all but PCT 454 associated with NSW liste Great Artesian Basin). None associated with MM MNES search dated 19/4/23 – - the proposed activity is "Within Ramsa | ed TEC 10065 (Artesi NES TECs (Federally nr site (Macquarie M x Woodlands of the | ian Springs Ecological Community in the listed). larshes)" Darling Riverine Plains and the Brigalow | | |

| Proposed management controls On the MMES search there are 22 listed Threatened Species. 4 listed Threatened Ecological Communities B. Listed Migratory Species. Of the 22 threatened species the Silver Parch, Bidyan and the Curkes Sample are considered to be critically endagered. The Curke simplex most vulnerable fit is sighted. The Silver Parch will be in vaterways which will not be affected by props works. The four threatened communities show Coolibah Black Box and Poplar Box Grassy to be likely in area there are no recovery plans for this species. The Macquarie Marshes is located tocks to the east of the proposed drilling area - approximately 200m. When the marshes accassionally fload the proposed drilling area - approximately 200m. When the marshes accassionally fload the proposed drilling area - approximately 200m. When the a proposed action is likely to have a significant impact on a matter of national environments significance (MMES), such as a listed threatened species or ecological community. The applicant held a pre-referal meeting with the Commonwealth Department of Climate Change, Ene the Environment and Water (OCEEW) on 28 March 2024. The referral was in relation to a potential impact on the Ramsar listed Wetland – the Macquarie Marshe During their meeting, DCEEW advised the applicant should underake a self-assessment to determine whether there is likely to be a significant impact on any MMES and for a programe a referral for the Commonwealth Missiter Consolvation and the explorati approval to undertake exploration activities outlet explorated as for second the second activities and for a programe a referral for the Commonwealth Missiter Consolvation and the exploration whether there is likely to be a significant impact on the proproval | | | | |
|---|-------------------------------------|---|---|--|
| What is the confidence in predicting impacts? High Are further studies required on impacts or mitigation? How resilient is the environment to cope with impacts? Medium Resilience What is the level of public concern? Can the impacts be reversed? Uncertain Ranking of potential significance Low Can the impacts be mitigated? Partly Justification for ranking Do the operations comply with Yes Yes | Duration | 8 Listed Migratory Species. Of the 22 threatener are considered to be critically endangered. The Department for Environment. This species is not most vulnerable if it is sighted. The Silver Perch works. The four threatened communities show area there are no recovery plans for this species. The Macquarie Marshes is located close to the When the marshes occasionally flood the proport undertaken in times of flood. The Commonwealth Environment Protection are force when a proposed action is likely to have a significance (MNES), such as a listed threatened. The applicant held a pre-referral meeting with the Environment and Water (DCCEEW) and 28 M. The referral was in relation to a potential impact. During their meeting, DCCEEW advised the applic whether a significant impact would occur. Under the Commonwealth EPBC Act, the onus i whether there is likely to be a significant impact. Commonwealth Minister's consideration as to vis required, then this is a separate approval protection activities und to obtain any separate Commonwealth approvation activities. Drilling during dry season only, the sites will nor the landholders will continue regularly prior to favourable. Any areas of vegetation will be avoided and do Topography is typically flat with many drainage proposed collar locations will be undertaken in | d species the Silver Curlew is migratory it known to breed ir will be in waterway Coolibah Black Box s. east of the propose bed drilling area wo d Biodiversity Cons is significant impact of significant impact of d species or ecologic the Commonwealth arch 2024. It on the Ramsar list licant that no forma cant should underta s on the person pro t on any MNES and whether or not the cess under Common onwealth approval h der NSW legislation als prior to proceedi in the outcome confi is, sufficient mitigat s. t be accessed during proposed drilling to not need to be distu- | Perch, Bidyan and the Curlew Sandpiper r and if sighted will be reported to the a Australia, therefore will not be at its rs which will not be affected by proposed and Poplar Box Grassy to be likely in this d drilling area - approximately 200m. build be affected. Site access will not be rervation Act 1999 (EPBC Act) comes into on a matter of national environmental cal community. Department of Climate Change, Energy, ted Wetland – the Macquarie Marshes. Al response regarding the pre-referral ke a self-assessment to determine if so, to prepare a referral for the project would require approval. If approval nwealth legislation and the exploration has been granted. The granting of an does not negate the need for a proponent ing. rming that there will not be a significant ing protocols are in place to ensure g times of flood. Close consultation with ensure that access conditions are urbed for this drilling program. be avoided for this program. Access to |
| impacts? studies required on impacts or impacts or mitigation? How resilient is the environment to cope with impacts? Medium Resilience What is the level of public concern? Can the impacts be reversed? Uncertain Ranking of potential significance Low Can the impacts be mitigated? Partly Justification for ranking Do the operations comply with Yes Yes | Application ranking | | | |
| How resilient is the environment to cope with impacts? Medium Resilience What is the level of public concern? Can the impacts be reversed? Uncertain Ranking of potential significance Low Can the impacts be mitigated? Partly Justification for ranking Do the operations comply with Yes | | High | studies required on impacts or | No |
| cope with impacts? level of public concern? Can the impacts be reversed? Uncertain Ranking of potential significance Can the impacts be mitigated? Partly Justification for ranking Do the operations comply with Yes Yes | How resilient is the environment to | Medium Resilience | | Low |
| potential significance Can the impacts be mitigated? Partly Do the operations comply with Yes | | | level of public | |
| Can the impacts be mitigated? Partly Justification for ranking Do the operations comply with Yes | Can the impacts be reversed? | Uncertain | potential | Low |
| Do the operations comply with Yes | Can the impacts he mitigated? | Partly | | anking |
| | Do the operations comply with | | | 0 |
| Criteria Habitat of a threatened species or ecological community | | Habitat of a threatened species or ecological co | mmunity | |

| Potential impacts | **There are no critically endangered species or communities recorded within the proposed drilling area |
|-------------------|---|
| | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. |
| | There are many flora and fauna records that come up on the BioNet search as being of protected or vulnerable status over the proposed area, however 3 drillholes are planned within a large area and locations are shown on Map3 attached. Areas of vegetation where most of these sightings occur do not need to be |
| | affected. The area is not located within any areas of high biodiversity; however, it is listed as a Wetland. This area is occasionally flooded if the Macquarie Marshes have high water levels, and 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. The olive perchlet has been sighted within one of the larger drainage areas that runs approximately north |
| | south through the proposed drilling area. This should not be affected during the proposed works which will only occur during dry periods. |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within Bushfire Prone Land Veg Cat 3 (Medium Risk). All holes within floodplain wetland. |
| | Bionet sightings of several endangered species within the vicinity of proposed drilling: Australasian Bittern, Australian Painted Snipe, Black-necked Stork, South-eastern hooded robin (consistent with MNES report). |
| | PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. While all but PCT 454 associated with NSW listed TEC 10065 (Artesian Springs Ecological Community in the Great Artesian Basin). None associated with MNES TECs (Federally listed). |
| | MNES search dated 19/4/23 – the proposed activity is "Within Ramsar site (Macquarie Marshes)" Endangered TECs: "Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions" AND "Poplar Box Grassy Woodland on Alluvial Plains Endangered Community" likely the accurate the search of the |
| | to occur within area - Endangered species likely to occur within the area: Major Mitchell's Cockatoo (eastern), South- eastern Hooded Robin, Grey Snake, Fork-tailed Swift |
| | Endangered species known to occur within the area: Australian Painted Snipe, Australasian Bittern The olive perchlet has been sighted within one of the larger drainage areas that runs approximatel north south through the proposed drilling area. This should not be affected during the proposed works white will only occur during dry periods. |

| Proposed management controls | On the MNES search there are 22 listed Threatened species, 4 listed Threatened Ecological Communities and 8 Listed Migratory Species. Of the 22 threatened species the Silver Perch, Bidyan and the Curlew Sandpiper are considered to be critically endangered. The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The Silver Perch will be in waterways which will not be affected by proposed works. The four threatened communities show Coolibah Black Box and Poplar Box Grassy to be likely in this area there are no recovery plans for this species. | | | |
|--|---|--|---------------------------------------|--|
| | | | | |
| | The Macquarie Marshes is located close to the east of the proposed drilling area - approximately 200m. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. | | | |
| | The Commonwealth Environment Protection ar force when a proposed action is likely to have a significance (MNES), such as a listed threatened | significant impact of | on a matter of national environmental | |
| | The applicant held a pre-referral meeting with t the Environment and Water (DCCEEW)on 28 M The referral was in relation to a potential impac | arch 2024. | | |
| | During their meeting, DCCEEW advised the app meeting would be provided, and that the applic whether a significant impact would occur. | | | |
| | Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponent to obtain any separate Commonwealth approvals prior to proceeding. The applicant completed a self-assessment 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. Drilling during dry season only, 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. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Access to | | | |
| | | | | |
| | | | | |
| Duration | proposed collar locations will be undertaken in N/A | close consultation v | with the landholders. | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | High | Are further studies | No | |
| | | required on impacts or mitigation? | | |
| How resilient is the environment to 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 standards, plans, policies? | Yes | | | |
| Criteria | Habitat of protected aquatic species or those w | ith conservation sta | itus. | |

| Potential impacts | There are no areas of critical habitat/area of outstanding biodiversity within the approval area. |
|-------------------|---|
| | As per following search: |
| | 1. Key Fish Habitat (Critical habitat) - |
| | https://webmap.industry.nsw.gov.au/Html5Viewer/index.html?viewer=Fisheries_Data_Portal |
| | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. |
| | There are many flora and fauna records that come up on the BioNet search as being of protected or vulnerable status over the proposed area, however 3 drillholes are planned within a large area and location are shown on Map3 attached. Areas of vegetation where most of these sightings occur do not need to be affected. |
| | The area is not located within any areas of high biodiversity; however, it is listed as a Wetland. This area is occasionally flooded if the Macquarie Marshes have high water levels, and 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. |
| | The olive perchlet has been sighted within one of the larger drainage areas that runs approximately north south through the proposed drilling area. This should not be affected during the proposed works which wil only occur during dry periods. |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within Bushfire Prone Land Veg Cat 3 (Medium Risk). Al holes within floodplain wetland. |
| | MNES search dated 19/4/23 – the proposed activity is "Within Ramsar site (Macquarie Marshes)" The olive perchlet has been sighted within one of the larger drainage areas that runs approximately north south through the proposed drilling area. This should not be affected during the proposed works whice will only occur during dry periods. |

| Proposed management controls | Activities must comply with (Exploration Code c commitment in the application (APO). Relevant a. Activities must implement all measures to pro- | t requirements of th | nis Code include: | |
|--|---|---|--|--|
| | quantity. b. All sediment and erosion controls (including of accordance with Blue Book. c. No significant impact on any threatened spect communities, or their habitats. d. No removal of vegetation in waterfront land. | ies, threatened pop | | |
| | All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. | | | |
| | On the MNES search there are 22 listed Threate 8 Listed Migratory Species. Of the 22 threatene are considered to be critically endangered. The Department for Environment. This species is no most vulnerable if it is sighted. The Silver Perch works. The four threatened communities show area there are no recovery plans for this species | d species the Silver Curlew is migratory t known to breed ir will be in waterway Coolibah Black Box | Perch, Bidyan and the Curlew Sandpiper y and if sighted will be reported to the Australia, therefore will not be at its ys which will not be affected by proposed | |
| | The Macquarie Marshes is located close to the o When the marshes occasionally flood the propo undertaken in times of flood. | | | |
| | The Commonwealth Environment Protection ar force when a proposed action is likely to have a significance (MNES), such as a listed threatened | significant impact | on a matter of national environmental | |
| | The applicant held a pre-referral meeting with the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) on 28 March 2024. The referral was in relation to a potential impact on the Ramsar listed Wetland – the Macquarie Marshes. During their meeting, DCCEEW advised the applicant that no formal response regarding the pre-referral meeting would be provided, and that the applicant should undertake a self-assessment to determine whether a significant impact would occur. Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertake exploration activities under NSW legislation does not negate the need for a proponent to obtain any separate Commonwealth approvals prior to proceeding. The applicant completed a self-assessment 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. | | | |
| | | | | |
| | | | | |
| | Drilling during dry season only, the sites will not the landholders will continue regularly prior to favourable. Any areas of vegetation will be avoided and do Topography is typically flat with many drainage proposed collar locations will be undertaken in | proposed drilling to not need to be dist channels that will b | ensure that access conditions are urbed for this drilling program. be avoided for this program. Access to | |
| Duration | Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No | |
| How resilient is the environment to cope with impacts? | Medium Resilience | What is the level of public | Low | |
| Can the impacts be reversed? | Uncertain | concern? Ranking of potential significance | Low | |
| Can the impacts be mitigated? | Partly | Justification for r | anking | |
| Do the operations comply with | Yes | | <u> </u> | |
| standards, plans, policies? | | | | |

| Criteria | Key Threatening Processes: As outlined in Schedule 4 of Biodiversity Conservation Act 2016. Includes: a. alteration, removal, clearly or degradation of habitat and native vegetation b. loss of hollow bearing trees c. removal of dead wood and dead trees d. invasion and establishment of exotic species. |
|-------------------|--|
| Potential impacts | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. |
| | There are many flora and fauna records that come up on the BioNet search as being of protected or vulnerable status over the proposed area, however 3 drillholes are planned within a large area and locations are shown on Map3 attached. Areas of vegetation where most of these sightings occur do not need to be affected. |
| | The area is not located within any areas of high biodiversity; however, it is listed as a Wetland. This area is occasionally flooded if the Macquarie Marshes have high water levels, and 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. The olive perchlet has been sighted within one of the larger drainage areas that runs approximately north |
| | south through the proposed drilling area. This should not be affected during the proposed works which will only occur during dry periods. |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within Bushfire Prone Land Veg Cat 3 (Medium Risk). All holes within floodplain wetland. |
| | Bionet sightings of several endangered species within the vicinity of proposed drilling: Australasian Bittern, Australian Painted Snipe, Black-necked Stork, South-eastern hooded robin (consistent with MNES report). |
| | PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. While all but PCT 454 associated with NSW listed TEC 10065 (Artesian Springs Ecological Community in the Great Artesian Basin). None associated with MNES TECs (Federally listed). |
| | MNES search dated 19/4/23 – - the proposed activity is "Within Ramsar site (Macquarie Marshes)" - Endangered TECs: "Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions" AND "Poplar Box Grassy Woodland on Alluvial Plains Endangered Community" likely to occur within area |
| | Endangered species likely to occur within the area: Major Mitchell's Cockatoo (eastern), South-eastern Hooded Robin, Grey Snake, Fork-tailed Swift Endangered species known to occur within the area: Australian Painted Snipe, Australasian Bittern The olive perchlet has been sighted within one of the larger drainage areas that runs approximately |
| | north south through the proposed drilling area. This should not be affected during the proposed works whice will only occur during dry periods. |

| Proposed management controls | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident fauna. | | | | |
|--|--|---|--|--|--|
| | All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. | | | | |
| | The Macquarie Marshes is located close to the east of the proposed drilling area - approximately 200m. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. | | | | |
| | The Commonwealth Environment Protection ar force when a proposed action is likely to have a significance (MNES), such as a listed threatened | significant impact of | on a matter of national environmental | | |
| | The applicant held a pre-referral meeting with the Environment and Water (DCCEEW)on 28 M The referral was in relation to a potential impace | arch 2024. | | | |
| | During their meeting, DCCEEW advised the app meeting would be provided, and that the applic whether a significant impact would occur. | | | | |
| | Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponent to obtain any separate Commonwealth approvals prior to proceeding. | | | | |
| | The applicant completed a self-assessment 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. | | | | |
| | Drilling during dry season only, 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. | | | | |
| | Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | | |
| Duration | Short term | | | | |
| Application ranking | | | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or | No | | |
| How resilient is the environment to cope with impacts? | Medium Resilience | mitigation? 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 standards, plans, policies? | Yes | | | | |
| 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 area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | |
|---|---|---|--|--|
| | | | | |
| | There are many flora and fauna records that convulnerable status over the proposed area, howe are shown on Map3 attached. Areas of vegetati affected. The area is not located within any areas of high occasionally flooded if the Macquarie Marshes | ever 3 drillholes are on where most of the biodiversity; howev nave high water lev | planned within a large area and location: hese sightings occur do not need to be ver, it is listed as a Wetland. This area is els, and the sites will not be accessed | |
| | during times of flood. Close consultation with th drilling to ensure that access conditions are fave The olive perchlet has been sighted within one of south through the proposed drilling area. This s only occur during dry periods. | ourable. of the larger draina | ge areas that runs approximately north | |
| | SEED search 10.1.24: Ramsar Wetland – Macque Areas of Biodiversity Value identified West of du and North within Macquarie Marshes. All drillho holes within floodplain wetland. | rilling area/title bou | ndary along Wambuul Macquarie River, | |
| | Bionet sightings of several endangered species Australian Painted Snipe, Black-necked Stork, So | | | |
| | PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. While all but PCT 454 associated with NSW listed TEC 10065 (Artesian Springs Ecological Community in the Great Artesian Basin). None associated with MNES TECs (Federally listed). MNES search dated 19/4/23 - the proposed activity is "Within Ramsar site (Macquarie Marshes)" Endangered TECs: "Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions" AND "Poplar Box Grassy Woodland on Alluvial Plains Endangered Community" likely to occur within area Endangered species likely to occur within the area: Major Mitchell's Cockatoo (eastern), Southeastern Hooded Robin, Grey Snake, Fork-tailed Swift Endangered species known to occur within the area: Australian Painted Snipe, Australasian Bittern The olive perchlet has been sighted within one of the larger drainage areas that runs approximately north south through the proposed drilling area. This should not be affected during the proposed works whice will only occur during dry periods. | | | |
| | | | | |
| | | | | |
| Proposed management controls | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident fauna. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. | | | |
| | | | | |
| | Drilling during dry season only, the sites will not the landholders will continue regularly prior to favourable. Any areas of vegetation will be avoided and do | proposed drilling to | ensure that access conditions are | |
| | Topography is typically flat with many drainage proposed collar locations will be undertaken in | channels that will b | e avoided for this program. Access to | |
| Duration | Short term | | | |
| Application ranking | | A | N- | |
| What is the confidence in predicting impacts? | High | Are further studies required on | No | |
| | | impacts or | | |
| How resilient is the environment to | High Resilience | mitigation? What is the | Low | |

| Can the impacts be reversed? | Yes | Ranking of potential | Low | |
|---|---|--|--|--|
| | | significance | | |
| Can the impacts be mitigated? | Partly | Justification for ranking | | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | | | | |
| Criteria | Ecological & Biosecurity Impacts: Any threat to the biological diversity or ecological integrity of an ecologic | | | |
| Detected to contra | community. | | | |
| Potential impacts | No impact envisaged. | | | |
| | The area is not located within any areas of high | hindiversity howe | or it is listed as a Wotland. This area is | |
| | The area is not located within any areas of high biodiversity, however it is listed as a Wetland. This are occasionally flooded if the Macquarie Marshes have high water levels and the sites will not be access during times of flood. Close consultation with the relevant landholders will continue regularly prior to proposed drilling to ensure that access conditions are favourable. | | | |
| | | | | |
| | | | | |
| Proposed management controls | Activities must comply with (Exploration Code of | | nental Management) as per the | |
| | commitment in the application (APO). Relevant | t requirements of th | is Code include: | |
| | a. Minimise extent of vegetation clearing and su | urface disturbance t | o as low as practicable. | |
| | b. Prevent adverse impacts to fauna caused by | vegetation clearing, | including relocation of resident fauna. | |
| | c. Setbacks from steep slopes/cliffs to limit imp | act of shots on cave | dwelling fauna. | |
| | Naisa inggata (diagontian ta fauna ang tangan | | | |
| | Noise impacts / disruption to fauna are tempor | ary. venicle movem | ents are limited and unlikely to have | |
| | significant injury/mortality impacts. | | | |
| | All disturbed areas to be rehabilitated in accord | lance with title conc | litions (Exploration Code of Practice: | |
| | Rehabilitation). Rehabilitation to occur as soon | | | |
| | | | | |
| | | | | |
| | Extreme care will be taken on this site to avoid | | | |
| | levels will be monitored. Local emergency servi | ces contact details v | will be readily available for the duration o | |
| | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to | ces contact details v o high standards and | will be readily available for the duration o d processes will be in place to minimise | |
| | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and | ces contact details v o high standards and | will be readily available for the duration o d processes will be in place to minimise | |
| Duration | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to | ces contact details v o high standards and | will be readily available for the duration o d processes will be in place to minimise | |
| Application ranking | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term | ces contact details v o high standards and I equipped to minim | will be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and | ces contact details v o high standards and I equipped to minim Are further | will be readily available for the duration o d processes will be in place to minimise | |
| Application ranking | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term | ces contact details v o high standards and d equipped to minim Are further studies | will be readily available for the duration of d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term | ces contact details v o high standards and d equipped to minim Are further studies required on | will be readily available for the duration of d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term | ces contact details v o high standards and d equipped to minim Are further studies required on impacts or | will be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High | ces contact details v o high standards and d equipped to minim Are further studies required on impacts or mitigation? | vill be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term | ces contact details v o high standards and d equipped to minim Are further studies required on impacts or mitigation? What is the | will be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High | ces contact details v o high standards and d equipped to minim Are further studies required on impacts or mitigation? What is the level of public | vill be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High | ces contact details v o high standards and d equipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? | vill be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High Medium Resilience | ces contact details v o high standards and d equipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of | vill be readily available for the duration of d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High Medium Resilience | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | vill be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High Medium Resilience | ces contact details v o high standards and d equipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of | vill be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | Ievels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | vill be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| 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? | levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes Partly | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | vill be readily available for the duration o d processes will be in place to minimise nise fire risk. | |
| 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 | levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes Partly Yes Ecological & Biosecurity Impacts: Creates a bios | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- | will be readily available for the duration of d processes will be in place to minimise hise fire risk. No Low Low anking | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? | levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes Partly Yes | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- | vill be readily available for the duration o d processes will be in place to minimise hise fire risk. No Low Low anking duces genetically modified organisms into | |
| 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? | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High Medium Resilience Yes Partly Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- ecurity risk or introduced of: a. mobilisation | vill be readily available for the duration o d processes will be in place to minimise hise fire risk. No Low Low anking duces genetically modified organisms into | |
| 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? | levels will be monitored. Local emergency servi the activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term High Medium Resilience Yes Partly Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- ecurity risk or introduced of: a. mobilisation | will be readily available for the duration of d processes will be in place to minimise hise fire risk. No Low Low anking duces genetically modified organisms into on of pollutants | |
| 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 | levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes Partly Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction pests and diseases, d. animal diseases, e. no No impact envisaged. | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- ecurity risk or introdu- of: a. mobilisatic poxious weeds, or f. | will be readily available for the duration of d processes will be in place to minimise hise fire risk. No Low Low anking duces genetically modified organisms into of pollutants b. animal pests, c. plan genetically modified organisms. | |
| 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 | levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes Partly Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introductior pests and diseases, d. animal diseases, e. no No impact envisaged. The area is not located within any areas of high | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- ecurity risk or intro- o of: a. mobilisatic potion for factors and the standard factors and the standard factors for a standard factors biodiversity, however | will be readily available for the duration of d processes will be in place to minimise hise fire risk. No Low Low anking duces genetically modified organisms into on of pollutants b. animal pests, c. plan genetically modified organisms. ver it is listed as a Wetland. This area is | |
| 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 | levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes Partly Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introduction pests and diseases, d. animal diseases, e. no No impact envisaged. The area is not located within any areas of high occasionally flooded if the Macquarie Marshes | ces contact details v o high standards and dequipped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- ecurity risk or intro- o of: a. mobilisatic exious weeds, or features biodiversity, however have high water lever | will be readily available for the duration of d processes will be in place to minimise hise fire risk. No Low Low anking duces genetically modified organisms into an of pollutants b. animal pests, c. plan. genetically modified organisms. ver it is listed as a Wetland. This area is els and the sites will not be accessed | |
| 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 | levels will be monitored. Local emergency servithe activity. All equipment will be maintained to risk. All vehicles are appropriately prepared and Short term Short term High Medium Resilience Yes Partly Yes Ecological & Biosecurity Impacts: Creates a bios an area. Includes impacts from the introductior pests and diseases, d. animal diseases, e. no No impact envisaged. The area is not located within any areas of high | Are further studies requiped to minim Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re- biodiversity, however have high water leven relevant landhold | will be readily available for the duration of d processes will be in place to minimise hise fire risk. No Low Low anking duces genetically modified organisms into an of pollutants b. animal pests, c. plan. genetically modified organisms. ver it is listed as a Wetland. This area is els and the sites will not be accessed | |

| | 1 | comply with (Exploration Code of Practice: Environmental Management) as per the the application (APO). Relevant requirements of this Code include: ent of vegetation clearing and surface disturbance to as low as practicable. rse impacts to fauna caused by vegetation clearing, including relocation of resident fauna. I steep slopes/cliffs to limit impact of shots on cave dwelling fauna. | | |
|---|---|--|---------------------------------------|--|
| | Noise impacts / disruption to fauna are tempor- significant injury/mortality impacts. | ary. Vehicle movem | ents are limited and unlikely to have | |
| | All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon | | | |
| | Extreme care will be taken on this site to avoid uncontrolled fires. Weather conditions and bush fire levels will be monitored. Local emergency services contact details will be readily available for the d the activity. All equipment will be maintained to high standards and processes will be in place to minisk. All vehicles are appropriately prepared and equipped to minimise fire risk. | | | |
| Duration | Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | High | Are further studies | No | |
| | | required on impacts or mitigation? | | |
| How resilient is the environment to 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? | Fully | Justification for ra | anking | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | | | | |
| Criteria | Ecological & Biosecurity Impacts: Likely to cause | e a significant bushf | re risk. | |
| Potential impacts | No impact envisaged. | | | |
| | The area is not located within any areas of high biodiversity, however it is listed as a Wetland. This are occasionally flooded if the Macquarie Marshes have high water levels and the sites will not be accesse during times of flood. Close consultation with the relevant landholders will continue regularly prior to proposed drilling to ensure that access conditions are favourable. | | | |
| Proposed management controls | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident c. Setbacks from steep slopes/cliffs to limit impact of shots on cave dwelling fauna. | | | |
| | Noise impacts / disruption to fauna are temporary. Vehicle movements are limited and unlikely to have significant injury/mortality impacts. | | | |
| | All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon | | | |
| | Extreme care will be taken on this site to avoid uncontrolled fires. Weather conditions and bush fire alert levels will be monitored. Local emergency services contact details will be readily available for the duratio the activity. All equipment will be maintained to high standards and processes will be in place to minimise risk. All vehicles are appropriately prepared and equipped to minimise fire risk. | | | |
| Duration | Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on | No | |
| | | impacts or | | |
| How resilient is the answer at the | Modium Position co | mitigation? | Low | |
| 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 | |

| Partly | Justification for r | anking |
|---|--|---|
| Yes | | |
| | | |
| Community Resources: Any degradation of infrastructure or significant increase in the demand for services | | |
| | | |
| There will be no impact to the demand of use of | ribear services and | resources for this drin program |
| No diversion of resources required | | |
| The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | |
| | | |
| | | |
| All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (includes weed growth management). Legislative requirement for landholder access arrangements and compensation. | | |
| | | |
| | | |
| | | |
| | | |
| High | Are further studies required on impacts or | No |
| | mitigation? | |
| High Resilience | level of public | Low |
| Yes | concern? Ranking of | Low |
| | potential | |
| Fully | Justification for ra | l anking |
| Yes | Justification for fa | anning |
| | | |
| | | |
| Community Resources: Any diversion of resources | es to the detriment | t of other communities or natural systems |
| | Community Resources: Any degradation of infra and infrastructure resources. There will be no impact to the demand or use of No diversion of resources required The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Negligible impacts likely. Activities must comply with (Exploration Code of commitment in the application (APO) including heritage. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon growth management). Legislative requirement for landholder access and Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 4000 on Map1 Site Plan. NOISE MGMT: Noise is not anticipated to be of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive r only. The landholders are fully informed with the receptors nearby. ANTICIPATED REHAB COMPLETE: 17 Feb 2025** Agricultural land use included with each. Short term High High Resilience | Community Resources: Any degradation of infrastructure or significand infrastructure resources. There will be no impact to the demand or use of local services and No diversion of resources required The area is predominantly open grazing land with sparse vegetation and do not need to be disturbed for this drilling program. Topograp, channels that will be avoided for this program. Access to proposed close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is not required. Sites at Drill pad areas (approx 10 x 20m) may require minor clearing of graphencessary, care will be taken to ensure to leave root stock to enable Negligible impacts likely. Activities must comply with (Exploration Code of Practice: Environ commitment in the application (APO) including protection of all elementage. All disturbed areas to be rehabilitated in accordance with title cond Rehabilitation). Rehabilitation to occur as soon as practicable after growth management). Legislative requirement for landholder access arrangements and commany for the proposed drilling does not generate excessive noise. NOISE MGMT: Noise is not anticipated to be of concern with the proposed drilling receptors nearby. ANTICIPATED REHAB COMPLETE: 17 Feb 2025**(updated in APO 6 Agricultural land use included with each. Short term High Resilience What is the level of public concern? Yes Ranking of potential significance |

No diversion of resources required

| Proposed management controls | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | |
|---|---|--|---|--|
| | | | | |
| | Negligible impacts likely. | | | |
| | Activities must comply with (Exploration Code c commitment in the application (APO) including heritage. | | o , , , | |
| | All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon growth management). | | | |
| | Legislative requirement for landholder access a | rrangements and co | ompensation. | |
| | Hours of Operations: 12 hour shifts, 7 days a week. 1 homestead (The Mole) within the proposed drilling location. This homestead is located approx 400m N from one of the tentative locations - Macquarie 4 noted on Map1 Site Plan. NOISE MGMT: Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive receptors. Drilling works will be undertaken in daylight hours only. The landholders are fully informed with the proposed drilling of this hole. There are no further sensitive receptors nearby. | | | |
| | | | | |
| | ANTICIPATED REHAB COMPLETE: 17 Feb 2025* Agricultural land use included with each. | *(updated in APO 6 | .3.24 in line with title expiry). ROCCs for | |
| Duration | Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | High | Are further studies | No | |
| inpacts: | | required on impacts or | | |
| | | mitigation? | | |
| How resilient is the environment to cope with impacts? | High Resilience | What is the level of public | Low | |
| | | concern? | | |
| Can the impacts be reversed? | Yes | Ranking of potential significance | Low | |
| Can the impacts be mitigated? | Fully | Justification for r | anking | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? Criteria | Natural Resources: Any disruption, depletion or | destruction of natu | Ind resources | |
| Potential impacts | The proposed drilling program is not anticipated | | | |
| | | at a time appropriate to landholders and so will not disrupt a collared in paddocks which are used for grazing purposes ad with sparse vegetation. Any areas of vegetation will be avo illing program. Topography is typically flat with many drainag ram. Access to proposed collar locations will be undertaken in | | |
| | and do not need to be disturbed for this drilling | | | |
| | DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | ninor clearing of gra | ass from the surface. Should this be | |

| Proposed management controls | Negligible impacts likely. | | | |
|--|--|--|---|--|
| | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include protection of all elements of the environment (water, land, soil, air), culture and heritage. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. | | | |
| | | | | |
| | Legislative requirement for landholder access a | rrangements and co | mpensation limit any potential impacts. | |
| | Drilling during dry season only, the sites will not the landholders will continue regularly prior to favourable. Any areas of vegetation will be avoided and do Topography is typically flat with many drainage proposed collar locations will be undertaken in | proposed drilling to not need to be distu channels that will b | ensure that access conditions are urbed for this drilling program. e avoided for this program. Access to | |
| Duration | N/A | | | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No | |
| How resilient is the environment to | High Resilience | What is the | Low | |
| cope with impacts? | | level of public | | |
| Consthe immedia he muchaed | Ver | concern? | 1 | |
| Can the impacts be reversed? | Yes | Ranking of potential | Low | |
| | | significance | | |
| Can the impacts be mitigated? | Fully | Justification for ra | anking | |
| Do the operations comply with standards, plans, policies? | Yes | | | |
| Criteria | Natural Resources: Any disruption of existing ac | l tivities which rely o | n natural resources including forestry | |
| | farming or extractive industries (or reduction of | | | |
| Potential impacts | The proposed drilling program is not anticipated | - | - | |
| | | | | |
| | The proposed program will be undertaken at a texisting activities. The drill holes are to be collar The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | red in paddocks whi th sparse vegetation program. Topograp Access to proposed ot required. Sites an ninor clearing of gra | ch are used for grazing purposes h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be | |
| Proposed management controls | existing activities. The drill holes are to be collar The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n | red in paddocks whi th sparse vegetation program. Topograp Access to proposed ot required. Sites an ninor clearing of gra | ch are used for grazing purposes h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be | |
| Proposed management controls | existing activities. The drill holes are to be collar The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | red in paddocks whi th sparse vegetation program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enabl of Practice: Environn requirements of th | ch are used for grazing purposes h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. nental Management) as per the | |
| Proposed management controls | existing activities. The drill holes are to be collar The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. I close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant | red in paddocks whi th sparse vegetation program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enabl of Practice: Environn requirements of th re and heritage. ance with title conc | ch are used for grazing purposes h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. hental Management) as per the is Code include protection of all elements litions (Exploration Code of Practice: | |
| Proposed management controls | existing activities. The drill holes are to be collar The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. I close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant of the environment (water, land, soil, air), cultur All disturbed areas to be rehabilitated in accord | red in paddocks whi th sparse vegetation program. Topograp Access to proposed ot required. Sites an inor clearing of gra root stock to enabl of Practice: Environr requirements of th re and heritage. ance with title conc as practicable after | ch are used for grazing purposes h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. nental Management) as per the is Code include protection of all element: litions (Exploration Code of Practice: completion of activity. | |
| Proposed management controls | existing activities. The drill holes are to be collar The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely. Activities must comply with (Exploration Code c commitment in the application (APO). Relevant of the environment (water, land, soil, air), cultu All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon | red in paddocks whi th sparse vegetation program. Topograp Access to proposed ot required. Sites an inor clearing of gra root stock to enabl of Practice: Environr requirements of th re and heritage. ance with title conc as practicable after rrangements and co be accessed during | ch are used for grazing purposes h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. nental Management) as per the is Code include protection of all elements litions (Exploration Code of Practice: completion of activity. mpensation limit any potential impacts. g times of flood. Close consultation with | |
| Proposed management controls | existing activities. The drill holes are to be collar The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely. Activities must comply with (Exploration Code c commitment in the application (APO). Relevant of the environment (water, land, soil, air), cultu All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon Legislative requirement for landholder access a Drilling during dry season only, the sites will not the landholders will continue regularly prior to | red in paddocks whi th sparse vegetation program. Topograp Access to proposed ot required. Sites an inor clearing of gra root stock to enabl of Practice: Environn requirements of th re and heritage. ance with title conc as practicable after rrangements and co be accessed during proposed drilling to not need to be distuc channels that will b | ch are used for grazing purposes h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be <u>e existing vegetation regrowth.</u> nental Management) as per the is Code include protection of all element. litions (Exploration Code of Practice: completion of activity. Impensation limit any potential impacts. s times of flood. Close consultation with ensure that access conditions are urbed for this drilling program. e avoided for this program. Access to | |

| What is the confidence in predicting | High | Are further | No |
|--------------------------------------|--|--|--|
| impacts? | - | studies | |
| | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | 5 | level of public | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| - | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Fully | Justification for r | anking |
| Do the operations comply with | Yes | | |
| standards, plans, policies? | | | |
| Criteria | Natural Resources: Any use which results in | the degradation of any | area reserved for conservation purposes |
| Potential impacts | The Macquarie Marshes Wetlands are ident impact nature of the drilling and small footp exploration drilling is not declared as design The area is predominantly open grazing land and do not need to be disturbed for this dril channels that will be avoided for this progra close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing Drill pad areas (approx 10 x 20m) may requi necessary, care will be taken to ensure to le | print will not result in th ated development in th d with sparse vegetatio ling program. Topograp m. Access to proposed is not required. Sites a re minor clearing of gra ave root stock to enabl | e degradation of the Wetlands. Mineral ne Warren LEP. n. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. |
| | 0 | of drilling area/title bou illholes within rounding (PCT 182, 212 isted TEC 10065 (Artes MNES TECs (Federally msar site (Macquarie M s Box Woodlands of the | and PCT 454) proposed drilling area. ian Springs Ecological Community in the listed). larshes)" Darling Riverine Plains and the Brigalow |
| | Belt South Bioregions" AND "Poplar Box Gra | | 5 |

| Proposed management controls | On the MNES search there are 22 listed Threatened species, 4 listed Threatened Ecological Communities and 8 Listed Migratory Species. Of the 22 threatened species the Silver Perch, Bidyan and the Curlew Sandpiper are considered to be critically endangered. The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The Silver Perch will be in waterways which will not be affected by proposed works. The four threatened communities show Coolibah Black Box and Poplar Box Grassy to be likely in this area there are no recovery plans for this species. | | | | |
|---|---|---|--|--|--|
| | The Macquarie Marshes is located close to the east of the proposed drilling area - approximately 200m. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. | | | | |
| | The Commonwealth Environment Protection ar force when a proposed action is likely to have a significance (MNES), such as a listed threatened | significant impact | on a matter of national environmental | | |
| | The applicant held a pre-referral meeting with t the Environment and Water (DCCEEW)on 28 M The referral was in relation to a potential impac | arch 2024. | | | |
| | During their meeting, DCCEEW advised the app meeting would be provided, and that the applic whether a significant impact would occur. | cant should underta | ke a self-assessment to determine | | |
| | Under the Commonwealth EPBC Act, the onus i whether there is likely to be a significant impac Commonwealth Minister's consideration as to v is required, then this is a separate approval pro activity cannot be undertaken until this Commo approval to undertake exploration activities und to obtain any separate Commonwealth approva | t on any MNES and whether or not the cess under Commo onwealth approval h der NSW legislation | if so, to prepare a referral for the project would require approval. If approval nwealth legislation and the exploration has been granted. The granting of an does not negate the need for a proponent | | |
| | The applicant completed a self-assessment 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. | | | | |
| | Drilling during dry season only, the sites will not the landholders will continue regularly prior to favourable. Any areas of vegetation will be avoided and do Topography is typically flat with many drainage proposed collar locations will be undertaken in | proposed drilling to not need to be dist channels that will b | ensure that access conditions are urbed for this drilling program. be avoided for this program. Access to | | |
| Duration | N/A | | | | |
| Application ranking | | | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No | | |
| How resilient is the environment to | Medium Resilience | What is the | Low | | |
| cope with impacts? | | level of public concern? | | | |
| 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 | | 0 | | |
| standards, plans, policies? Criteria | Sensitive Land Impacts: Impacts on National pa the National Parks and Wildlife Act 1974. | l rks and other areas | reserved or dedicated or acquired under | | |
| Potential impacts | Activity not permitted in these areas. | · | | | |
| Proposed management controls | N/A | | | | |
| Duration | N/A | | | | |
| Application ranking | , | | | | |
| What is the confidence in predicting impacts? | N/A | Are further studies required on impacts or | N/A | | |
| | | mitigation? | | | |

| How resilient is the environment to | N/A | What is the | |
|--|--|--|--|
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | N/A | Ranking of | |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | N/A | Justification for ra | anking |
| Do the operations comply with | N/A | | |
| standards, plans, policies? | | | |
| Criteria | Sensitive Land Impacts: Land subject to a 'conse 1974 and/or the Biodiversity Conservation Act 2 under the now repealed Threatened Species Co agreement established under the Biodiversity C established under the Biodiversity Conservatior continue to have effect even where legislation I now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Vegetation Conservation Act 1997 | 2016. This includes: nservation Act 1995 onservation Act 201 Act 2016. c. Exist has been repealed: 01 2 Property ve | a. Biobanking agreement (established b) or a Biodiversity Stewardship b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the |
| Potential impacts | Activity not permitted in these areas. | | |
| Proposed management controls | N/A | | |
| Duration | N/A N/A | | |
| | | | |
| Application ranking What is the confidence in predicting | N/A | Are further | N/A |
| impacts? | | studies | |
| impacts | | required on | |
| | | · · | |
| | | impacts or | |
| | 21/0 | mitigation? | |
| How resilient is the environment to | N/A | What is the | |
| cope with impacts? | | level of public | |
| Con the immedia he recorded | N1/A | concern? | |
| Can the impacts be reversed? | N/A | Ranking of | |
| | | potential significance | |
| Can the impacts he mitigated? | N/A | Justification for ra | anking |
| Can the impacts be mitigated? | - | Justification for to | anking |
| Do the operations comply with | N/A | | |
| standards plans policios? | | | |
| standards, plans, policies? | Sonsitive Land Impacts: Impacts on aquatic ross | rvos or marino par | ks doclarod under the Marine Estate |
| | Sensitive Land Impacts: Impacts on aquatic rese | | |
| Criteria | Management Act 2014. Impacts on Coastal Zon | | |
| Criteria Potential impacts | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. | | |
| Criteria Potential impacts Proposed management controls | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A | | |
| Criteria Potential impacts Proposed management controls Duration | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. | | |
| Criteria Potential impacts Proposed management controls Duration Application ranking | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A | e as defined in the C | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A | e as defined in the C Are further | |
| Criteria Potential impacts Proposed management controls Duration Application ranking | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A | e as defined in the C Are further studies | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A | e as defined in the C Are further studies required on | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A | e as defined in the C Are further studies required on impacts or | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A | e as defined in the C Are further studies required on impacts or mitigation? | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A | e as defined in the C Are further studies required on impacts or mitigation? What is the | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A | Are further studies required on impacts or mitigation? What is the level of public | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A | Are further studies required on impacts or mitigation? What is the level of public concern? | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A | Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A | e as defined in the C Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | Coastal Management Act 2016. |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A N/A | e as defined in the C Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | N/A |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A N/A N/A | e as defined in the C Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | N/A |
| Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? | Management Act 2014. Impacts on Coastal Zon Activity not permitted in these areas. N/A N/A N/A N/A | Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re | N/A |

| Potential impacts | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. |
|-------------------|--|
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within |
| | PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. While all but PCT 454 associated with NSW listed TEC 10065 (Artesian Springs Ecological Community in the Great Artesian Basin). None associated with MNES TECs (Federally listed). |
| | MNES search dated 19/4/23 – - the proposed activity is "Within Ramsar site (Macquarie Marshes)" - Endangered TECs: "Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow |
| | Belt South Bioregions" AND "Poplar Box Grassy Woodland on Alluvial Plains Endangered Community" likely to occur within area |

| Proposed management controls | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. c. No significant impact on any threatened species, threatened populations, threatened ecological communities, or their habilitation to accur as soon as practicable after completion of a ctivity. On the MNES search there are 22 listed Threatened species, 4 listed Threatened Ecological Communities and 8 Listed Migratory Species. Of the 22 threatened species, the Silver Perch, Bidyan and the Curlew Sandpiper are considered to be critically endangered. The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The Silver Perch will be in waterways which will not be affected by proposed works. The four threatened communities show Coolibab Black Box and Poplar Box Grassy to be likely in this area there are no recovery plans for this species. The Macquarie Marshes is located close to the east of the proposed drilling area - approximately 200m. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. The Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) comes into force when a proposed action is likely to have a significant impact on a matter of national environmental significance (MNES), such as a listed threatened species or ecological community. The applicant held a pre-referral meeting with the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) on 28 March 2024. The referral was in relation to a potential impac | | |
|--|--|--|--|
| | | | |
| | favourable. Any areas of vegetation will be avoided and do Topography is typically flat with many drainage proposed collar locations will be undertaken in | channels that will b | be avoided for this program. Access to |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on | No |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to cope with impacts? | High Resilience | What is the level of public concern? | Low |
| Can the impacts be reversed? | Yes | Ranking of potential | Low |
| | | significance | |
| Con the Immediate Second Street 12 | Fully | In additionation of a | anking |
| Can the impacts be mitigated? Do the operations comply with | Fully Yes | Justification for r | anking |

| Criteria | Sensitive Land Impacts: Impacts on other sensitive lands including: a. Land within a state forest set aside under the Forestry Act 2012 for conservation values. This includes flora reserves and special management (and other) zones. b. Drinking water catchment protection areas - land declared to be a 'controlled area' or a 'special area' under the Water NSW Act 2014, or a 'special area' under the Water Management Act 2000 or Hunter Water Act 1991. c. Waterfront land as defined under the Water Management Act 2000. |
|------------------------------|---|
| Potential impacts | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. |
| | SEED search 10.1.24: Ramsar Wetland – Macquarie Marshes directly north of proposed drilling areas. Areas of Biodiversity Value identified West of drilling area/title boundary along Wambuul Macquarie River, and North within Macquarie Marshes. All drillholes within |
| | PCTs within (PCT 168, 181 and 204) and surrounding (PCT 182, 212 and PCT 454) proposed drilling area. While all but PCT 454 associated with NSW listed TEC 10065 (Artesian Springs Ecological Community in the Great Artesian Basin). None associated with MNES TECs (Federally listed). |
| | MNES search dated 19/4/23 – the proposed activity is "Within Ramsar site (Macquarie Marshes)" Endangered TECs: "Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions" AND "Poplar Box Grassy Woodland on Alluvial Plains Endangered Community" likely |
| Proposed management controls | to occur within area On the MNES search there are 22 listed Threatened species, 4 listed Threatened Ecological Communities and 8 Listed Migratory Species. Of the 22 threatened species the Silver Perch, Bidyan and the Curlew Sandpiper are considered to be critically endangered. The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The Silver Perch will be in waterways which will not be affected by proposed works. The four threatened communities show Coolibah Black Box and Poplar Box Grassy to be likely in this area there are no recovery plans for this species. |
| | The Macquarie Marshes is located close to the east of the proposed drilling area - approximately 200m. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. |
| | The Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) comes into force when a proposed action is likely to have a significant impact on a matter of national environmental significance (MNES), such as a listed threatened species or ecological community. |
| | The applicant held a pre-referral meeting with the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW)on 28 March 2024. The referral was in relation to a potential impact on the Ramsar listed Wetland – the Macquarie Marshes. |
| | During their meeting, DCCEEW advised the applicant that no formal response regarding the pre-referral meeting would be provided, and that the applicant should undertake a self-assessment to determine whether a significant impact would occur. |
| | Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approval is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponent to obtain any separate Commonwealth approvals prior to proceeding. |
| | The applicant completed a self-assessment 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. |
| | Drilling during dry season only, 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. |
| | Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to |
| Duration | proposed collar locations will be undertaken in close consultation with the landholders. |

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|--------------------------------------|--|--------------------------|--|
| What is the confidence in predicting | High | Are further | No |
| impacts? | | studies | |
| | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Fully | Justification for r | anking |
| Do the operations comply with | Yes | | |
| standards, plans, policies? | | | |
| Criteria | Sensitive Land Impacts: Impacts on land reser | ved or dedicated with | nin the meaning of the Crown Lands Ac |
| | 1989/Crown Lands Management Act 2016 for | | - |
| | protection purposes. | | |
| Potential impacts | NA | | |
| Proposed management controls | N/A | | |
| Duration | 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 | |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | N/A | Ranking of | |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | N/A | Justification for r | anking |
| Do the operations comply with | N/A | | 0 |
| standards, plans, policies? | | | |
| Criteria | Sensitive Land Impacts: Impacts on land ident | ified as wilderness or | declared a wilderness area under the |
| | Wilderness Act 1987. | | |
| Potential impacts | NA | | |
| • | | | |
| Proposed management controls | N/A | | |
| Duration | N/A | | |
| Application ranking | | | |
| 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 | |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | N/A | Ranking of | |
| can the impacts be reversed? | | potential | |
| | | | |
| Constitution of the solution of the | | significance | |
| Can the impacts be mitigated? | N/A | Justification for r | anking |
| Do the operations comply with | N/A | | |
| standards, plans, policies? | | | |
| Criteria | Sensitive Lands: Impacts on wetlands of interr | national significance of | lesignated under the Ramsar Convention |
| | | | |
| | on Wetlands and those designated as a natior of Australia. | nally important wetla | nd in the Directory of Important Wetla |

| Potential impacts | The area is predominantly open grazing land wi | th sparse vegetation | n. Any areas of vegetation will be avoided | |
|--|--|--|---|--|
| | and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | program. Topograp | bhy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | |
| | SEED search 10.1.24: Ramsar Wetland – Macqu Areas of Biodiversity Value identified West of d and North within Macquarie Marshes. All drillh | rilling area/title bou | | |
| | PCTs within (PCT 168, 181 and 204) and surrou While all but PCT 454 associated with NSW liste Great Artesian Basin). None associated with MI | d TEC 10065 (Artes | an Springs Ecological Community in the | |
| | MNES search dated 19/4/23 – | | | |
| | - the proposed activity is "Within Ramsa | | | |
| | - Endangered TECs: "Coolibah - Black Bo Belt South Bioregions" AND "Poplar Box Grassy | | Darling Riverine Plains and the Brigalow ial Plains Endangered Community" likely | |
| | to occur within area | | | |
| Proposed management controls | The Macquarie Marshes is located close to the When the marshes occasionally flood the propo undertaken in times of flood. | | | |
| | The Commonwealth Environment Protection ar force when a proposed action is likely to have a significance (MNES), such as a listed threatened | significant impact of | on a matter of national environmental | |
| | The applicant held a pre-referral meeting with the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW)on 28 March 2024. The referral was in relation to a potential impact on the Ramsar listed Wetland – the Macquarie Marshes. | | | |
| | During their meeting, DCCEEW advised the apple meeting would be provided, and that the applid whether a significant impact would occur. Under the Commonwealth EPBC Act, the onus i whether there is likely to be a significant impact Commonwealth Minister's consideration as to v is required, then this is a separate approval pro activity cannot be undertaken until this Common approval to undertake exploration activities un- to obtain any separate Commonwealth approva | ant should underta s on the person pro t on any MNES and whether or not the p cess under Common prowealth approval h der NSW legislation | ke a self-assessment to determine posing to take an action to determine if so, to prepare a referral for the project would require approval. If approval nwealth legislation and the exploration as been granted. The granting of an does not negate the need for a proponent | |
| | The applicant completed a self-assessment 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. | | | |
| | Drilling during dry season only, the sites will no the landholders will continue regularly prior to favourable. Any areas of vegetation will be avoided and do Topography is typically flat with many drainage proposed collar locations will be undertaken in | proposed drilling to not need to be distu channels that will b | ensure that access conditions are urbed for this drilling program. re avoided for this program. Access to | |
| Duration | N/A | | | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or mitigation? | No | |
| How resilient is the environment to cope with impacts? | 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 | | |
|--|--|--------------------------------------|---|
| standards, plans, policies? Criteria | Sensitive Land Impacts: Impacts on land identifi | ed in an environme | ntal planning instrument as being of |
| Citteria | biodiversity / conservation significance or zoned | | |
| | management. Includes Coastal Wetlands and Littoral rainforests under State Environmental Planning Policy | | |
| | (Resilience and Hazards) 2021. | | |
| Potential impacts | NA | | |
| Proposed management controls | N/A | | |
| Duration | N/A | | |
| Application ranking | | | |
| What is the confidence in predicting | N/A | Are further studies | N/A |
| impacts? | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | N/A | What is the | |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | N/A | Ranking of | |
| | | potential significance | |
| Can the impacts be mitigated? | N/A | Justification for ra | anking |
| Do the operations comply with | N/A | | 0 |
| standards, plans, policies? | | | |
| Criteria | Sensitive Land Impacts: Impacts on Aboriginal h | | |
| | under the National Parks and Wildlife Act 1974 | b. Areas of Aborig | inal cultural significance identified in an |
| Potential impacts | environmental planning instrument. | | |
| Proposed management controls | NA | | |
| Duration | N/A | | |
| Application ranking | | | |
| 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 | |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | N/A | Ranking of | |
| | | potential | |
| Can the impacts be mitigated? | N/A | significance Justification for ra | anking |
| Do the operations comply with | N/A | Justification for th | anning |
| standards, plans, policies? | | | |
| Criteria | Sensitive Land Impacts: Impacts on heritage pro | | · · · · |
| | internationally recognised heritage sites or area | | - |
| | Commonwealth Heritage List) b. Items listed of identified in an environmental planning instrum | | c. Heritage items and conservation areas |
| Potential impacts | NA | ient | |
| Proposed management controls | N/A | | |
| Duration | N/A | | |
| Application ranking | | | |
| 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 | |
| cope with impacts? | | level of public | |
| · · · · · · · · · · · · · · · · · · · | | concern? | |
| Can the impacts be reversed? | N/A | Ranking of | |
| | | potential | |
| Can the impact to with at 10 | | significance | |
| Can the impacts be mitigated? | N/A N/A | Justification for r | anking |
| Do the operations comply with standards, plans, policies? | | | |
| Criteria | Sensitive Land Impacts: Impacts on community | land classified unde | er the Local Government Act 1993 (for |
| | | | |

| Detential imposts | NA | | | |
|--|--|--|--|--|
| Potential impacts Proposed management controls | NA N/A | | | |
| Duration | N/A | | | |
| Application ranking | N/A | | | |
| 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? | | |
| Can the impacts be reversed? | N/A | Ranking of | Low | |
| | | 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 bushfire pro | ne areas. | | |
| Potential impacts | The proposed program will be undertaken at a t | time appropriate to | landholders and so will not disrupt any | |
| · | existing activities. The drill holes are to be collar | | | |
| | | , | 0 01 1 | |
| | The area is predominantly open grazing land wi | th sparse vegetatio | n. Any areas of vegetation will be avoided | |
| | and do not need to be disturbed for this drilling | | | |
| | channels that will be avoided for this program. | | | |
| | close consultation with the landholders. | | | |
| | close consultation with the landholders. | | | |
| | DISTURBANCE: Farthworks and yes clearing is n | ot required Sites a | e relatively flat and open | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. | | | |
| | Drill pad areas (approx 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. | | | |
| | incressary, care will be taken to ensure to leave | | e existing vegetation regrowth. | |
| | SEED coarch 10.1.24: All drillholoc within Buchfi | ED search 10.1.24: All drillholes within Bushfire Prone Land Veg Cat 3 (Medium Risk) | | |
| Proposed management controls | | | | |
| 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 | | | |
| | Any existing/proposed access tracks can be use | d ac firabraaks in au | east of fire | |
| Duration | Short term | u as medieaks med | ent of file. | |
| | | | | |
| Application ranking | Ligh | Are fouther | No | |
| What is the confidence in predicting | High | Are further studies | No | |
| 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? | Fully | Justification for r | anking | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | | | | |
| Criteria | Social Impacts: Any impacts which result in a ch | ange in the demogr | aphic structure of the community, | |
| | including changes to workforce or industry strue | cture of the area/re | gion. Including change in demand for | |
| | community resources (eg community facilities, | community services | and labour force). | |
| | | | | |

| Potential impacts | | | | |
|---|--|--|--|--|
| | The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | program. Topograp | bhy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. Limited potential for any significant change in the demographic structure of the community. The propose program is small and will not affect the demographics of the local communities. | | | |
| | | | | |
| | Negligible impacts and only localised changes in | unity resources. | | |
| | Minimal increase in demand for accommodation, food, mechanical and fuel supplies, etc. Not large to warrant significant changes in supply. | | | |
| Proposed management controls | Community consultation has been initiated with affected landholders and the community. A regular flow information will be provided, and any concerns will be addressed immediately. No issues have been raise date. Negligible impacts likely due to low personnel numbers and temporary nature of exploration. | | | |
| Duration | Generally positive for suppliers of services and a Short term | goods utilised. | | |
| Application ranking | | | | |
| What is the confidence in predicting | High | Are further | Νο | |
| impacts? | | studies | | |
| | | required on | | |
| | | impacts or | | |
| | | mitigation? | | |
| How resilient is the environment to | High Resilience | What is the | Low | |
| cope with impacts? | | level of public | | |
| Can the impacts he reversed? | Yes | concern? | Low | |
| Can the impacts be reversed? | res | Ranking of potential | LOW | |
| | | significance | | |
| Can the impacts be mitigated? | Fully | Justification for ra | anking | |
| Do the operations comply with | Yes | | | |
| | 165 | | | |
| standards, plans, policies? | res | | | |
| | Social Impacts: Any environmental impact that | | ial change or disruption to the community | |
| standards, plans, policies? | | identity). | | |
| standards, plans, policies? Criteria | Social Impacts: Any environmental impact that (including loss of facilities or loss of community | identity). | | |
| standards, plans, policies? Criteria | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r | identity). nature to cause any | significant or long term change or | |
| standards, plans, policies? Criteria | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. | identity). nature to cause any ly removed from na | significant or long term change or | |
| standards, plans, policies? Criteria | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari | identity). nature to cause any ly removed from na th sparse vegetation program. Topograp | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided ohy is typically flat with many drainage | |
| standards, plans, policies? Criteria | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m | identity). nature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra | significant or long term change or tural systems and / community use. h. Any areas of vegetation will be avoided ony is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. Iss from the surface. Should this be | |
| standards, plans, policies? Criteria | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati | identity). nature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enabl n affected landholde will be addressed ir on Code of Practice | significant or long term change or tural systems and / community use. h. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ers and the community. A regular flow of nmediately. No issues have been raised to : Environmental Management) as per the | |
| standards, plans, policies? Criteria Potential impacts | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns | identity). nature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enabl n affected landholde will be addressed ir on Code of Practice t requirements of th uding water, land, ai s (Exploration Code | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of nmediately. No issues have been raised to : Environmental Management) as per the his Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation | |
| standards, plans, policies? Criteria Potential impacts | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu- rehabilitated in accordance with title conditions | identity). nature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enabl n affected landholde will be addressed ir on Code of Practice t requirements of th uding water, land, ai s (Exploration Code | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of nmediately. No issues have been raised to : Environmental Management) as per the his Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation | |
| standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu rehabilitated in accordance with title conditions to occur as soon as practicable after completior Short term | identity). nature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enabl n affected landholde will be addressed ir on Code of Practice t requirements of th uding water, land, ai s (Exploration Code n of activity (includir | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of nmediately. No issues have been raised to : Environmental Management) as per the his Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation | |
| Standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu rehabilitated in accordance with title conditions to occur as soon as practicable after completion | identity). nature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enable n affected landholde will be addressed ir on Code of Practice t requirements of th uding water, land, ai s (Exploration Code n of activity (includir Are further | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of nmediately. No issues have been raised to : Environmental Management) as per the his Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation | |
| standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu rehabilitated in accordance with title conditions to occur as soon as practicable after completior Short term | identity). hature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra- root stock to enable n affected landholde will be addressed ir on Code of Practice t requirements of the uding water, land, ai s (Exploration Code n of activity (includin Are further studies | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of mmediately. No issues have been raised to : Environmental Management) as per the his Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation ng sealing of any boreholes). | |
| Standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu rehabilitated in accordance with title conditions to occur as soon as practicable after completior Short term | identity). hature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enable n affected landholde will be addressed ir on Code of Practice t requirements of th uding water, land, ai s (Exploration Code n of activity (includir Are further studies required on | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of mmediately. No issues have been raised to : Environmental Management) as per the his Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation ng sealing of any boreholes). | |
| Standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu rehabilitated in accordance with title conditions to occur as soon as practicable after completior Short term | identity). hature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enable n affected landholde will be addressed ir on Code of Practice t requirements of th uding water, land, ai s (Exploration Code n of activity (includir Are further studies required on impacts or | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of mmediately. No issues have been raised to converte and the community. A regular flow of mmediately. No issues have been raised to converte and the community. A regular flow of mmediately. No issues have been raised to converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of the converte and the community. A regular flow of mediately. No issues have been raised to converte and the community. A regular flow of the converte and the conve | |
| standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu rehabilitated in accordance with title conditions to occur as soon as practicable after completion Short term | identity). hature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enable n affected landholde will be addressed ir on Code of Practice t requirements of the uding water, land, ai s (Exploration Code n of activity (includin Are further studies required on impacts or mitigation? | significant or long term change or tural systems and / community use. h. Any areas of vegetation will be avoided by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be e existing vegetation regrowth. ers and the community. A regular flow of mmediately. No issues have been raised to i Environmental Management) as per the bis Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation ng sealing of any boreholes). | |
| Standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting | Social Impacts: Any environmental impact that (including loss of facilities or loss of community Environmental impacts from activities not of a r disruption to community. Areas used for exploration activities, temporari Short term noise, air quality and visual impacts. The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Community consultation has been initiated with information will be provided, and any concerns date. Activities must comply with (Explorati commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu rehabilitated in accordance with title conditions to occur as soon as practicable after completior Short term | identity). hature to cause any ly removed from na th sparse vegetation program. Topograp Access to proposed not required. Sites an ninor clearing of gra root stock to enable n affected landholde will be addressed ir on Code of Practice t requirements of th uding water, land, ai s (Exploration Code n of activity (includir Are further studies required on impacts or | significant or long term change or tural systems and / community use. n. Any areas of vegetation will be avoided oby is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. iss from the surface. Should this be <u>e existing vegetation regrowth.</u> ers and the community. A regular flow of mmediately. No issues have been raised to : Environmental Management) as per the his Code include minimising potential ir). All disturbed areas to be of Practice: Rehabilitation). Rehabilitation ng sealing of any boreholes). | |

| Can the impacts be reversed? | Yes | Ranking of potential | Low |
|--------------------------------------|--|-------------------------|--|
| | | significance | |
| Can the impacts be mitigated? | Partly | Justification for r | anking |
| Do the operations comply with | Yes | | |
| standards, plans, policies? | | | |
| Criteria | Social Impacts: Any impacts which result in som | e individuals or con | nmunities being significantly |
| | disadvantaged (e.g. change to community facility | ties, services or labo | our force). |
| Potential impacts | Impacts from activities not of a nature to cause | any significant or lo | ong term change or disruption to |
| | community. | | |
| | The small program will not disadvantage the co | | |
| | Limited potential to significantly impact on indiv | viduals or communi | ties - short term impacts only. |
| | Areas used for exploration activities, temporari | ly removed from na | tural systems and / community use. |
| | Short term noise, air quality and visual impacts. | | |
| | The area is predominantly open grazing land wi | th sparse vegetatio | n. Any areas of vegetation will be avoided |
| | and do not need to be disturbed for this drilling | | |
| | channels that will be avoided for this program. | Access to proposed | collar locations will be undertaken in |
| | close consultation with the landholders. | | |
| | DISTURBANCE: Earthworks and veg clearing is n | ot required Sites a | re relatively flat and onen |
| | Drill pad areas (approx 10 x 20m) may require n | | |
| | necessary, care will be taken to ensure to leave | | |
| Proposed management controls | Community consultation has been initiated with | | |
| | information will be provided, and any concerns | | , 8 |
| | date. Activities must comply with (Exploration | | 1 |
| | commitment in the application (APO). Relevant | | |
| | of the environment (water, land, soil, air), cultu | re and heritage. | All disturbed areas to be rehabilitated in |
| | accordance with title conditions (Exploration Co | de of Practice: Reh | abilitation). Rehabilitation to occur as |
| | soon as practicable after completion of activity. | Legislative req | uirement for landholder access |
| | arrangements and compensation limit any pote | ntial impacts. 0 | Compensation under Mining Act available |
| | to mitigate compensation. Activities must com | ply with WHS legisla | ative requirements. |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting | High | Are further | No |
| impacts? | | studies | |
| | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Fully | Justification for r | anking |
| Do the operations comply with | Yes | | |
| standards, plans, policies? | | | |
| Criteria | Social Impacts: Any impacts on the health, safet | | |
| | factors such as pollution, odour, noise, vibration | n, lighting, visual im | pacts, etc). |

| Potential impacts | Activities not of a nature to cause any significant or long term health, safety, privacy or welfare impacts. The impacts are minimal and not within proximity to sensitive receptors or communities. Limited potential to significantly impact on individuals or communities - short term impacts only. | | | |
|--|---|---|--|--|
| | Short term and temporary noise, air quality and visual impacts. | | | |
| | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | |
| | DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | ninor clearing of gra | iss from the surface. Should this be | |
| | Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 400 on Map1 Site Plan. NOISE MGMT: Noise is not anticipated to be of | m N from one of the | e tentative locations - Macquarie 4 noted | |
| | drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive r only. The landholders are fully informed with th receptors nearby. | | , . | |
| Proposed management controls | Community consultation has been initiated with information will be provided, and any concerns date. | | | |
| | Activities must comply with (Exploration Code c commitment in the application (APO). Relevant of the environment (water, land, soil, air), cultu | requirements of th | o , , , | |
| | All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. | | | |
| | Legislative requirement for landholder access arrangements and compensation limit any potential impacts. | | | |
| | Compensation under Mining Act available to mitigate compensation. Activities must comply with WHS legislative requirements. | | | |
| | Hours of Operations: 12 hour shifts, 7 days a week. 1 homestead (The Mole) within the proposed drilling location. This homestead is located approx 400m N from one of the tentative locations - Macquarie 4 noted | | | |
| | on Map1 Site Plan. NOISE MGMT: Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive receptors. Drilling works will be undertaken in daylight hours only. The landholders are fully informed with the proposed drilling of this hole. There are no further sensitive | | | |
| | receptors nearby. | e proposed drilling | or this hole. There are no further sensitive | |
| Duration | Short term | | | |
| Application ranking | | 1 | | |
| What is the confidence in predicting impacts? | High | Are further studies required on impacts or | No | |
| How resilient is the environment to cope with impacts? | High Resilience | mitigation? What is the level of public | Low | |
| Can the impacts be reversed? | Yes | concern? Ranking of potential significance | Low | |
| Can the impacts be mitigated? | Fully | Justification for ra | anking | |
| Do the operations comply with standards, plans, policies? | Yes | | o | |
| Criteria | Social Impacts: Effect on a locality, place or buil architectural, cultural, historical, scientific or so generations? | | | |

| Potential impacts | Negligible potential to effect a locality, place or architectural, cultural, historical, scientific or so There will be no detrimental effect on the aest Short term and temporary impacts only. | cial significance or o | other special value. | | |
|--|--|--|--|--|--|
| | The area is predominantly open grazing land w and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | g program. Topograp | bhy is typically flat with many drainage | | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | | |
| | Hours of Operations: 12 hour shifts, 7 days a w location. This homestead is located approx 400 on Map1 Site Plan. | | | | |
| | NOISE MGMT: Noise is not anticipated to be of drilling does not generate excessive noise. | | | | |
| | Drilling will not occur within 200m of sensitive only. The landholders are fully informed with the | | | | |
| Proposed management controls | receptors nearby. Negligible impacts likely due to low impact of c exploration. | omplying exploratio | n activities and temporary nature of | | |
| | 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. | | | | |
| | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). | | | | |
| | Impacts limited to immediate vicinity of exploration activity. | | | | |
| | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | | |
| | Hours of Operations: 12 hour shifts, 7 days a week. 1 homestead (The Mole) within the proposed drilling location. This homestead is located approx 400m N from one of the tentative locations - Macquarie 4 noted | | | | |
| | on Map1 Site Plan. NOISE MGMT: Noise is not anticipated to be of concern with the proposed diamond drilling as this style of | | | | |
| | drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive only. The landholders are fully informed with th | | | | |
| Duration | receptors nearby. Short term | | | | |
| Application ranking | Shortterm | | | | |
| What is the confidence in predicting impacts? | High | Are further studies required on | No | | |
| | | impacts or mitigation? | | | |
| How resilient is the environment to cope with impacts? | High Resilience | What is the level of public concern? | Low | | |
| Can the impacts be reversed? | Yes | Ranking of potential significance | Low | | |
| Can the impacts be mitigated? | Partly | Justification for r | anking | | |
| Do the operations comply with standards, plans, policies? | Yes | | o | | |
| | | rong sense of ident | | | |

| Potential impacts | Community likely to include members who have exploration program. | e concerns about po | ossible future mining following any | |
|---|--|--|---|--|
| | Short term and temporary impacts only. | | | |
| | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | |
| | Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 400 on Map1 Site Plan. | | | |
| | NOISE MGMT: Noise is not anticipated to be of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive r only. The landholders are fully informed with th | eceptors. Drilling w | orks will be undertaken in daylight hours | |
| | receptors nearby. | le proposed drining | | |
| Proposed management controls | Short term impacts on the community and prec | lominantly limited | to immediate site. | |
| | Subject to landholder agreement and any comp Community consultation has been initiated with information will be provided, and any concerns date. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon | n affected landholde will be addressed in ance with title cond | nmediately. No issues have been raised to litions (Exploration Code of Practice: | |
| | The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | program. Topograp | bhy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | |
| | Hours of Operations: 12 hour shifts, 7 days a week. 1 homestead (The Mole) within the proposed drilling location. This homestead is located approx 400m N from one of the tentative locations - Macquarie 4 noted on Map1 Site Plan. | | | |
| | NOISE MGMT: Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive receptors. Drilling works will be undertaken in daylight hours | | | |
| | only. The landholders are fully informed with th | | | |
| Duration | receptors nearby. Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting impacts? | Medium | Are further studies required on impacts or | No | |
| | | mitigation? | | |
| How resilient is the environment to cope with impacts? | High Resilience | What is the level of public | Low | |
| Can the impacts be reversed? | Yes | concern? Ranking of potential | Low | |
| Can the impacts be mitigated? | Partly | significance Justification for r | anking | |
| Do the operations comply with | Yes | Justification for f | | |
| standards, plans, policies? | | | | |
| Criteria | Social Impacts: Impacts on disadvantaged comr | nunitios | | |

| Potential impacts | No negative impacts predicted. | | | |
|---|--|--|---|--|
| | The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | program. Topograp | bhy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | |
| | Hours of Operations: 12 hour shifts, 7 days a week. 1 homestead (The Mole) within the proposed drilling location. This homestead is located approx 400m N from one of the tentative locations - Macquarie 4 noted on Map1 Site Plan. | | | |
| | NOISE MGMT: Noise is not anticipated to be of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive r only. The landholders are fully informed with th | eceptors. Drilling w | orks will be undertaken in daylight hours | |
| | receptors nearby. | | | |
| Proposed management controls | Short term impacts on the community and predominantly limited to immediate site. Subject to landholder agreement and any compensation. 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. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. | | | |
| Duration | Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting | 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? | night Kesilience | level of public | LOW | |
| cope with impacts? | | concern? | | |
| Can the impacts be reversed? | Yes | Ranking of potential | Low | |
| | | significance | | |
| Can the impacts be mitigated? | Fully | Justification for r | anking | |
| Do the operations comply with standards, plans, policies? | Yes | | | |
| Criteria | Economic Impacts: Any impacts which may affe decrease to net economic welfare. | l ct economic activity | γ (positive or negative), including a | |
| Potential impacts | No significant impacts predicted. | | | |
| | Minimal increase in demand for accommodatio | n food mechanical | and fuel supplies etc. Not large enough | |
| | to warrant significant changes in supply. | .,, | | |
| | The area is predominantly open grazing land wi | th sparse vegetatio | n. Any areas of vegetation will be avoided | |
| | and do not need to be disturbed for this drilling | | | |
| | channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | |
| | | | | |
| | DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | ninor clearing of gra | ss from the surface. Should this be | |
| Proposed management controls | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n | ninor clearing of gra root stock to enabl umbers and tempo | iss from the surface. Should this be existing vegetation regrowth. | |
| | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili | ninor clearing of gra root stock to enabl umbers and tempo | iss from the surface. Should this be existing vegetation regrowth. | |
| Duration | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n | ninor clearing of gra root stock to enabl umbers and tempo | iss from the surface. Should this be existing vegetation regrowth. | |
| Duration Application ranking | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili Short term | ninor clearing of gra root stock to enabl umbers and tempo sed. | ass from the surface. Should this be e existing vegetation regrowth. rary nature of exploration. Generally | |
| Duration Application ranking What is the confidence in predicting | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili | ninor clearing of gra root stock to enabl umbers and tempo sed. Are further | iss from the surface. Should this be existing vegetation regrowth. | |
| Duration Application ranking | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili Short term | ninor clearing of gra root stock to enabl umbers and tempo sed. Are further studies | ass from the surface. Should this be e existing vegetation regrowth. rary nature of exploration. Generally | |
| Duration Application ranking What is the confidence in predicting | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili Short term | ninor clearing of gra root stock to enabl umbers and tempo sed. Are further studies required on | ass from the surface. Should this be e existing vegetation regrowth. rary nature of exploration. Generally | |
| Duration Application ranking What is the confidence in predicting | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili Short term | ninor clearing of gra root stock to enabl umbers and tempo sed. Are further studies required on impacts or | ass from the surface. Should this be e existing vegetation regrowth. rary nature of exploration. Generally | |
| Duration Application ranking What is the confidence in predicting | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili Short term | ninor clearing of gra root stock to enabl umbers and tempo sed. Are further studies required on | ass from the surface. Should this be e existing vegetation regrowth. rary nature of exploration. Generally | |
| Duration Application ranking What is the confidence in predicting impacts? | Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave Negligible impacts likely due to low personnel n positive for suppliers of services and goods utili Short term High | ninor clearing of gra root stock to enabl umbers and tempo sed. Are further studies required on impacts or mitigation? | ss from the surface. Should this be e existing vegetation regrowth. rary nature of exploration. Generally No | |

| Can the impacts be reversed? | Yes | Ranking of | Low | |
|--|--|--|--|--|
| | | potential significance | | |
| Can the impacts be mitigated? | Fully | Justification for ra | anking | |
| Do the operations comply with | Yes | Justilication for it | | |
| standards, plans, policies? | | | | |
| Criteria | Economic Impacts: Any impacts that result in a | decrease in the eco | nomic stability of the community. | |
| Potential impacts | Activities not of a scale to warrant changes in supply side. | | | |
| | Temporary increase in demand will result in inc | | | |
| | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. | program. Topograp | hy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n peressary care will be taken to ensure to leave | ninor clearing of gra | ss from the surface. Should this be | |
| Proposed management controls | necessary, care will be taken to ensure to leave root stock to enable existing vegetation regrowth. Negligible impacts likely due to low personnel numbers and temporary nature of exploration. G positive for suppliers of services and goods utilised. | | | |
| Duration | Short term | | | |
| Application ranking | chore term | | | |
| What is the confidence in predicting | High | Are further | No | |
| impacts? | | studies | | |
| impacts: | | required on | | |
| | | impacts or | | |
| | | mitigation? | | |
| How resilient is the environment to | High Resilience | What is the | Low | |
| cope with impacts? | | level of public | | |
| | | concern? | | |
| Can the impacts be reversed? | Yes | Ranking of | Low | |
| | | potential | | |
| | | significance | | |
| Can the impacts be mitigated? | Partly | Justification for ra | anking | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | | | 14 | |
| Criteria | Economic Impacts: Any impacts which result in | | • | |
| Potential impacts | Rehabilitation security bond covers any future public liability for rehabilitation. | | | |
| | Investment in exploration may lead to significar | nt mining investmen | t. | |
| | Limited long term negative economic impacts from exploration. | | | |
| | | | | |
| | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. | program. Topograp | hy is typically flat with many drainage | |
| | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. | |
| | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. | |
| Duration | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. | |
| Duration Application ranking | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, inclue | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| Duration Application ranking What is the confidence in predicting | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, includ Are further | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. | |
| Duration Application ranking | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, includ Are further studies | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| Duration Application ranking What is the confidence in predicting | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, includ Are further studies required on | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| Duration Application ranking What is the confidence in predicting | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| Duration Application ranking What is the confidence in predicting impacts? | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term High | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or mitigation? | thy is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| Duration Application ranking What is the confidence in predicting | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or mitigation? What is the level of public | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| How resilient is the environment to cope with impacts? | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term High | program. Topograp Access to proposed ot required. Sites an ninor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or mitigation? What is the level of public concern? | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term High | program. Topograp Access to proposed ot required. Sites an inor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term High | program. Topograp Access to proposed ot required. Sites an inor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. | |
| 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 area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term High High Resilience | program. Topograp Access to proposed ot required. Sites an inor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. No Low | |
| Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | The area is predominantly open grazing land wir and do not need to be disturbed for this drilling channels that will be avoided for this program. A close consultation with the landholders. DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave Small increase in public revenue associated with Short term High | program. Topograp Access to proposed ot required. Sites an inor clearing of gra root stock to enable exploration, includ Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | by is typically flat with many drainage collar locations will be undertaken in re relatively flat and open. ss from the surface. Should this be e existing vegetation regrowth. ling taxes from wages. No Low | |

| Criteria | Heritage Impacts: Any impacts on a locality, pla significance. | ace, landscape, build | ling or archaeological relic of heritage | |
|--|---|--|---|--|
| Potential impacts | Limited potential to significantly impact on locality, places, landscapes or buildings. | | | |
| | Short term noise, air quality and visual impacts. | | | |
| | There are no listed heritage items, places, or areas in this proposed drilling area | | | |
| | The area is predominantly open grazing land w and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | g program. Topograp | ohy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is Drill pad areas (approx 10 x 20m) may require necessary, care will be taken to ensure to leave | ninor clearing of gra | ass from the surface. Should this be | |
| | There are no listed Aboriginal Sites noted withi The Macquarie River at its closest point is locat proposed drilling area. No drillholes will be adv drainage areas within the proposed area and d drainages | ed less than 200m f anced within 200m | rom the south eastern point of the of the Macquarie River. There are many | |
| | There are no items of historic cultural or natural heritage listed within the searches performed for this | | | |
| | proposed drilling program and as such no impa | ct envisaged. This a | rea is within the extents of lands classified | |
| | as wetlands; braided swamps, channels and floodplain of the Macquarie River, however is not part of the | | | |
| | Macquarie Marshes Nature Reserve and all due | | | |
| | carried out in times of dry and in close consulta | | older who best understands his land to | |
| Duran and an an an an an an an an an | ensure no adverse effects occur from the prop | | | |
| Proposed management controls | Limited potential to significantly impact on locality, places, landscapes or buildings. Short term noise, air quality and visual impacts. There are no listed heritage items, places, or areas in this proposed drilling area Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion | | | |
| Duration | of activity (including sealing of any boreholes). Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting | N/A | Are further | No | |
| impacts? | | studies | | |
| | | required on | | |
| | | impacts or | | |
| | | mitigation? | | |
| How resilient is the environment to | High Resilience | What is the | Low | |
| cope with impacts? | | level of public | | |
| | | concern? | | |
| Can the impacts be reversed? | Yes | Ranking of | Low | |
| | | potential | | |
| | | significance | | |
| Can the impacts be mitigated? | Fully | Justification for r | anking | |
| Do the operations comply with standards, plans, policies? | Yes | | | |
| Criteria | Aesthetic Impacts: Any impacts on the visual of | r scenic landscape, ii | ncluding lighting, venting or flaring of gas. | |

| Potential impacts | Limited potential to significantly impact on visu | al or scenic landsca | pe. | |
|--|--|------------------------|--|--|
| | The proposed drilling will be of short duration, is over 200m away from nearest residence, and no night | | | |
| | works so no lights. | | | |
| | Short term noise, air quality and visual impacts. | | | |
| | Potential for temporary impact on aesthetics of | f a locality. | | |
| | The proposed program will be undertaken at a time appropriate to landholders and so will not disrupt any existing activities. The drill holes are to be collared in paddocks which are used for grazing purposes | | | |
| | The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | program. Topograp | bhy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is r Drill pad areas (approx 10 x 20m) may require r necessary, care will be taken to ensure to leave | ninor clearing of gra | ass from the surface. Should this be | |
| | Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 400 on Map1 Site Plan. | , | , , , , , | |
| Proposed management controls | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising pot impacts on all aspects of the environment (including water, land, air), culture and heritage (Aborig Non-Indigenous heritage). No drilling proposed within 200m of homestead. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Pra Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including of any boreholes). | | | |
| | NOISE MGMT: Noise is not anticipated to be of concern with the proposed diamond drilling as this style of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive receptors. Drilling works will be undertaken in daylight hours only. The landholders are fully informed with the proposed drilling of this hole. There are no further sensitive | | | |
| | receptors nearby. | | | |
| Duration | Short term | | | |
| Application ranking | Llich | Ano funther | No | |
| What is the confidence in predicting impacts? | High | Are further studies | No | |
| impacts: | | required on | | |
| | | impacts or | | |
| | | mitigation? | | |
| How resilient is the environment to | High Resilience | What is the | Low | |
| cope with impacts? | | level of public | | |
| | | concern? | | |
| Can the impacts be reversed? | Uncertain | Ranking of | Low | |
| | | potential | | |
| | | significance | | |
| Can the impacts be mitigated? | Fully | Justification for r | anking | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | | | | |
| Criteria | Aesthetic Impacts: Areas or items of high aesth | etic or scenic value. | | |

| Potential impacts | Limited potential to significantly impact on visu | al or scenic landsca | pe. | |
|--|--|--|--|--|
| | The proposed drilling will be of short duration, is over 200m away from nearest residence, and no night | | | |
| | works so no lights. | | | |
| | Short term noise, air quality and visual impacts. | | | |
| | Potential for temporary impact on aesthetics of | a locality. | | |
| | The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | |
| | DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | ninor clearing of gra | ass from the surface. Should this be | |
| | Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 400 on Map1 Site Plan. | | | |
| Proposed management controls | Short term impacts predominantly limited to in Code of Practice: Environmental Management) | | | |
| | requirements of this Code include minimising p | | | |
| | water, land, air), culture and heritage (Aborigin | al and Non-Indigend | ous heritage). No drilling proposed | |
| | within 200m of homestead. All disturbed area | | | |
| | (Exploration Code of Practice: Rehabilitation). R | ehabilitation to occ | ur as soon as practicable after completion | |
| Duration | of activity (including sealing of any boreholes). Short term | | | |
| Application ranking | | | | |
| What is the confidence in predicting | High | Are further | No | |
| impacts? | | studies | | |
| | | required on | | |
| | | impacts or | | |
| How resilient is the environment to | High Resilience | mitigation? What is the | Low | |
| cope with impacts? | ngi kesilence | level of public | LOW | |
| | | concern? | | |
| Can the impacts be reversed? | Yes | Ranking of | Low | |
| | | potential | | |
| Con the immediate he without d2 | Denth | significance | | |
| Can the impacts be mitigated? Do the operations comply with | Partly Yes | Justification for r | anking | |
| standards, plans, policies? | Tes | | | |
| Criteria | Cultural Impacts: Any disturbance of the ground | d surface or any cult | turally modified trees (e.g. a scar tree). | |
| Potential impacts | Short term ground disturbance. | | | |
| | Potential for temporary impact on aesthetics of | a locality. | | |
| | The area is predominantly open grazing land wi and do not need to be disturbed for this drilling channels that will be avoided for this program. close consultation with the landholders. | program. Topogram | phy is typically flat with many drainage | |
| | DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | ninor clearing of gra | ass from the surface. Should this be | |
| | AHIMS search 19/4/23 – There are no listed Abo attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. | ed less than 200m f anced within 200m | rom the south eastern point of the of the Macquarie River. There are many | |

| Proposed management controls | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). | | | |
|---|--|--|---|--|
| | All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes). | | | |
| | Should any Aboriginal sites be discovered staff y information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of th | s Heritage NSW pref around it. Any conc W on 02 9873 8500 | erred method of recording). This site erns regarding new sites and working in | |
| Duration | Short term | | | |
| Application ranking | | | r | |
| What is the confidence in predicting impacts? | High | Are further studies required on | No | |
| | | impacts or mitigation? | | |
| How resilient is the environment to cope with impacts? | Medium Resilience | What is the level of public concern? | Medium | |
| 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 | | | |
| standards, plans, policies? | | | | |
| Criteria | Cultural Impacts: Any impacts on known Aborig | inal objects or Abor | iginal places. | |
| | Potential for impact on Aboriginal objects and places through ground disturbance, excavations, vegetation clearing, etc. The area is predominantly open grazing land with sparse vegetation. Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | | |
| | | | | |
| | AHIMS search 19/4/23 – There are no listed Abd attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. | ed less than 200m fi anced within 200m | rom the south eastern point of the of the Macquarie River. There are many | |
| Proposed management controls | attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr | ed less than 200m fi anced within 200m illholes will be mov of Practice: Environn t requirements of th | rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the is Code include minimising potential | |
| Proposed management controls | attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be advadrainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu | ed less than 200m fi anced within 200m illholes will be movi- of Practice: Environn t requirements of th uding water, land, ai lance with title conc | rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the is Code include minimising potential r), culture and heritage (Aboriginal and litions (Exploration Code of Practice: | |
| Proposed management controls | attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be advadrainage areas within the proposed area and dridrainages. Activities must comply with (Exploration Code commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon | ed less than 200m fi anced within 200m illholes will be movi- of Practice: Environr t requirements of th uding water, land, ai lance with title conc as practicable after will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500 | rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the is Code include minimising potential r), culture and heritage (Aboriginal and litions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the erred method of recording). This site erns regarding new sites and working in | |
| Proposed management controls | attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be advadrainage areas within the proposed area and drinages. Activities must comply with (Exploration Code commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon of any boreholes). Should any Aboriginal sites be discovered staff information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS | ed less than 200m fi anced within 200m illholes will be movi- of Practice: Environr t requirements of th uding water, land, ai lance with title conc as practicable after will inform manager s Heritage NSW pref around it. Any conc W on 02 9873 8500 | rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the is Code include minimising potential r), culture and heritage (Aboriginal and litions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the erred method of recording). This site erns regarding new sites and working in | |

| | | 1 | | | |
|--|--|--|---|--|--|
| 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 | | |
| | Medium Resilience | level of public | Medium | | |
| 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? | Uncertain | Justification for ra | anking | | |
| Do the operations comply with | Yes | | | | |
| standards, plans, policies? | | | | | |
| Criteria | Cultural Impacts: Affects areas where the landso | Affects areas where the landscape features indicate the likely presence of Aboriginal | | | |
| | objects. | | | | |
| Potential impacts | Short term ground disturbance. | | | | |
| | _ | | | | |
| | Potential for impact on Aboriginal objects and p clearing, etc. | laces through grour | nd disturbance, excavations, vegetation | | |
| | The area is prodominantly open grating land with | th charge vegetation | Any areas of vegetation will be availed | | |
| | The area is predominantly open grazing land win and do not need to be disturbed for this drilling | | | | |
| | channels that will be avoided for this program. | | | | |
| | close consultation with the landholders. | | | | |
| | siese consultation with the landholders. | | | | |
| | DISTURBANCE: Earthworks and veg clearing is n | ot required. Sites ar | e relatively flat and open. | | |
| | Drill pad areas (approx 10 x 20m) may require m | | <i>i i</i> | | |
| | necessary, care will be taken to ensure to leave | | | | |
| | | | | | |
| | AHIMS search 19/4/23 – There are no listed Abo | original Sites noted | within the proposed drilling area on the | | |
| | attached AHIMS search. | | | | |
| | The Macquarie River at its closest point is located less than 200m from the south eastern point of the | | | | |
| | | | - | | |
| | proposed drilling area. No drillholes will be advanced within 200m of the Macquarie River. There are many drainage areas within the proposed area and drillholes will be moved so they do not sit within 40m of any drainages. | | | | |
| | | | | | |
| Proposed management controls | Activities must comply with (Exploration Code o | f Practice: Environn | nental Management) as per the | | |
| | commitment in the application (APO). Relevant | requirements of th | is Code include minimising potential | | |
| | impacts on all aspects of the environment (inclu | | | | |
| | Non-Indigenous heritage). | | | | |
| | | | | | |
| | All disturbed areas to be rehabilitated in accord | ance with title cond | itions (Exploration Code of Practice: | | |
| | Rehabilitation). Rehabilitation to occur as soon | as practicable after | completion of activity (including sealing | | |
| | of any boreholes). | | | | |
| | | | | | |
| | Should any Aboriginal sites be discovered staff v | will inform manager | Should any Aboriginal sites be discovered staff will inform management teams who will record the | | |
| | | | | | |
| | information on the AHIMS Mobile APP (which is | Heritage NSW pref | | | |
| | | e 1 | erred method of recording). This site | | |
| | information on the AHIMS Mobile APP (which is | around it. Any conc | erred method of recording). This site erns regarding new sites and working in | | |
| | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer | around it. Any conc W on 02 9873 8500 | erred method of recording). This site erns regarding new sites and working in | | |
| Duration | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS | around it. Any conc W on 02 9873 8500 | erred method of recording). This site erns regarding new sites and working in | | |
| Application ranking | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of th | around it. Any conc W on 02 9873 8500 | erred method of recording). This site erns regarding new sites and working in | | |
| | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of th | around it. Any conc W on 02 9873 8500 | erred method of recording). This site erns regarding new sites and working in | | |
| Application ranking | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term | around it. Any conc W on 02 9873 8500 ne Macquarie River. | erred method of recording). This site erns regarding new sites and working in | | |
| Application ranking What is the confidence in predicting | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further | erred method of recording). This site erns regarding new sites and working in | | |
| Application ranking What is the confidence in predicting | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies | erred method of recording). This site erns regarding new sites and working in | | |
| Application ranking What is the confidence in predicting | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on | erred method of recording). This site erns regarding new sites and working in | | |
| Application ranking What is the confidence in predicting | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or | erred method of recording). This site erns regarding new sites and working in | | |
| Application ranking What is the confidence in predicting impacts? | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of th Short term High | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? | erred method of recording). This site erns regarding new sites and working in No | | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of th Short term High | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the | erred method of recording). This site erns regarding new sites and working in No | | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of th Short term High | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the level of public | erred method of recording). This site erns regarding new sites and working in No | | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term High Medium Resilience | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the level of public concern? | erred method of recording). This site erns regarding new sites and working in No Medium | | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term High Medium Resilience | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of | erred method of recording). This site erns regarding new sites and working in No Medium | | |
| Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term High Medium Resilience | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential | erred method of recording). This site erns regarding new sites and working in 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? | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term High Medium Resilience | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | erred method of recording). This site erns regarding new sites and working in 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? | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term High Medium Resilience Uncertain | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance | erred method of recording). This site erns regarding new sites and working in 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 | information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the Short term High Medium Resilience Uncertain | around it. Any conc W on 02 9873 8500 ne Macquarie River. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for ra | erred method of recording). This site erns regarding new sites and working in No Medium Low | | |

| Potential impacts | Condition of exploration title/authority prohibits exploration on any land or waters on which Native Title has not been extinguished, unless the prior consent of the Minister has been obtained. | | | |
|--------------------------------------|--|----------------------|-----------------------------|---|
| | The area is predominantly open grazing land with sparse vegetation (Private freehold land). Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | |
| | | | re relatively flat and onen | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. AHIMS search 19/4/23 – There are no listed Aboriginal Sites noted within the proposed drilling area on the attached AHIMS search. | | | |
| | | | | |
| | The Macquarie River at its closest point is located less than 200m from the south eastern point of the proposed drilling area. No drillholes will be advanced within 200m of the Macquarie River. There are many drainage areas within the proposed area and drillholes will be moved so they do not sit within 40m of any | | | |
| Proposed management controls | drainages. Condition of exploration title/authority prohibit not been extinguished, unless the prior consent | | | |
| | Should any Aboriginal sites be discovered staff will inform management teams who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500. | | | |
| Duration | No drillholes will be advanced within 200m of the Short term | | · | |
| Application ranking | Short term | | | |
| What is the confidence in predicting | High | Are further | No | |
| impacts? | 1161 | 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 | |
| | | potential | | |
| | | significance | | |
| Can the impacts be mitigated? | Uncertain | Justification for ra | anking | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | Cultural Increases Increases an Algorizinal commu | | at to lovel vickto eleinen | |
| Criteria | Cultural Impacts: Impacts on Aboriginal commu | | | |
| Potential impacts | Condition of exploration title/authority prohibits exploration on any land or waters on which Native Title has not been extinguished, unless the prior consent of the Minister has been obtained. The area is predominantly open grazing land with sparse vegetation (Private freehold land). Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | | |
| | | | | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 10 x 20m) may require minor clearing of grass from the surface. Should this be | | | |
| | AHIMS search 19/4/23 – There are no listed Aboriginal Sites noted within the proposed drilling area on the attached AHIMS search. The Macquarie River at its closest point is located less than 200m from the south eastern point of the proposed drilling area. No drillholes will be advanced within 200m of the Macquarie River. There are many drainage areas within the proposed area and drillholes will be moved so they do not sit within 40m of any drainages. | | | |
| | | | | |
| | | | | Any impacts are short term and temporary. |

| Proposed management controls | Condition of exploration title/authority prohibit | | | |
|---|--|---|---|--|
| | not been extinguished, unless the prior consent of the Minister has been obtained. Should any Aboriginal sites be discovered staff will inform management teams who will record the | | | |
| | information on the AHIMS Mobile APP (which is | - | | |
| | would then be avoided by placing a 30m buffer | around it. Any conc | cerns regarding new sites and working in | |
| | the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the | | | |
| Duration | Short term | | | |
| Application ranking | | I | | |
| 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 | |
| | | potential | | |
| | | significance | | |
| Can the impacts be mitigated? | Uncertain | Justification for ra | anking | |
| Do the operations comply with standards, plans, policies? | Yes | | | |
| Criteria | Cultural Impacts: Impacts on areas or items of h heritage, historical, recreational or scientific val | | l, archaeological, architectural, cultural, | |
| Potential impacts | Short term and temporary impacts only. | | | |
| | | | | |
| | The area is predominantly open grazing land with sparse vegetation (Private freehold land). Any areas of | | | |
| | vogetation will be availed and do not need to h | vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations | | |
| | - | | | |
| | flat with many drainage channels that will be av | voided for this progr | | |
| | - | voided for this progr | | |
| | flat with many drainage channels that will be av | voided for this progr e landholders. | ram. Access to proposed collar locations | |
| | flat with many drainage channels that will be av will be undertaken in close consultation with th | voided for this progr e landholders. ot required. Sites an | ram. Access to proposed collar locations re relatively flat and open. | |
| | flat with many drainage channels that will be av will be undertaken in close consultation with th DISTURBANCE: Earthworks and veg clearing is n | voided for this progr e landholders. ot required. Sites an ninor clearing of gra | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be | |
| | flat with many drainage channels that will be av will be undertaken in close consultation with th DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. | |
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| | flat with many drainage channels that will be av will be undertaken in close consultation with th DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abb attached AHIMS search. | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the | |
| | flat with many drainage channels that will be av will be undertaken in close consultation with th DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abo attached AHIMS search. The Macquarie River at its closest point is locate | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted ed less than 200m fi | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the | |
| | flat with many drainage channels that will be av will be undertaken in close consultation with th DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abb attached AHIMS search. | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many | |
| | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abo attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any | |
| Proposed management controls | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is n Drill pad areas (approx 10 x 20m) may require n necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abo attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted ed less than 200m fi anced within 200m illholes will be move of Practice: Environm | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the | |
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| Proposed management controls | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abo attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m illholes will be move of Practice: Environn t requirements of th uding water, land, ai | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the his Code include minimising potential ir), culture and heritage (Aboriginal and | |
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| Proposed management controls | flat with many drainage channels that will be aw will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abi attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). Aboriginal or Europe avoided. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon of any boreholes). Should any Aboriginal sites be discovered staff of information on the AHIMS Mobile APP (which is | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m of Practice: Environm t requirements of th uding water, land, ai an heritage objects, ance with title conc as practicable after will inform manager s Heritage NSW pref | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the his Code include minimising potential ir), culture and heritage (Aboriginal and /items/areas to be demarcated and ditions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the ferred method of recording). This site | |
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| Duration Application ranking | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abd attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). Aboriginal or Europe avoided. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon of any boreholes). Should any Aboriginal sites be discovered staff of information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the N/A | voided for this progr e landholders. ot required. Sites an ninor clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m of Practice: Environm t requirements of th uding water, land, ai an heritage objects, ance with title cond as practicable after will inform manager s Heritage NSW pref around it. Any cond W on 02 9873 8500 he Macquarie River. Are further studies | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the his Code include minimising potential ir), culture and heritage (Aboriginal and /items/areas to be demarcated and ditions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the ferred method of recording). This site terns regarding new sites and working in b. | |
| Duration Application ranking What is the confidence in predicting | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abd attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). Aboriginal or Europe avoided. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon of any boreholes). Should any Aboriginal sites be discovered staff of information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the N/A | voided for this progr e landholders. ot required. Sites an inior clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m of Practice: Environr t requirements of th uding water, land, ai an heritage objects, ance with title cond as practicable after will inform manager is Heritage NSW pref around it. Any cond W on 02 9873 8500 he Macquarie River. Are further studies required on | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the his Code include minimising potential ir), culture and heritage (Aboriginal and /items/areas to be demarcated and ditions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the ferred method of recording). This site terns regarding new sites and working in b. | |
| Duration Application ranking What is the confidence in predicting | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abd attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). Aboriginal or Europe avoided. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon of any boreholes). Should any Aboriginal sites be discovered staff of information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the N/A | voided for this progr e landholders. ot required. Sites an inior clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m of illholes will be move of Practice: Environr t requirements of th uding water, land, ai an heritage objects, ance with title cond as practicable after will inform manager is Heritage NSW pref around it. Any cond W on 02 9873 8500 he Macquarie River. Are further studies required on impacts or | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the his Code include minimising potential ir), culture and heritage (Aboriginal and /items/areas to be demarcated and ditions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the ferred method of recording). This site terns regarding new sites and working in b. | |
| Duration Application ranking What is the confidence in predicting impacts? | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Aba attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). Aboriginal or Europe avoided. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon of any boreholes). Should any Aboriginal sites be discovered staff of information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the N/A | voided for this progr e landholders. ot required. Sites an inior clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m of illholes will be move of Practice: Environr t requirements of th uding water, land, ai an heritage objects, ance with title cond as practicable after will inform manager is Heritage NSW pref around it. Any cond W on 02 9873 8500 he Macquarie River. Are further studies required on impacts or mitigation? | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the his Code include minimising potential ir), culture and heritage (Aboriginal and /items/areas to be demarcated and ditions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the ferred method of recording). This site terns regarding new sites and working in | |
| Duration Application ranking What is the confidence in predicting | flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m necessary, care will be taken to ensure to leave AHIMS search 19/4/23 – There are no listed Abd attached AHIMS search. The Macquarie River at its closest point is locate proposed drilling area. No drillholes will be adva drainage areas within the proposed area and dr drainages. Activities must comply with (Exploration Code of commitment in the application (APO). Relevant impacts on all aspects of the environment (inclu Non-Indigenous heritage). Aboriginal or Europe avoided. All disturbed areas to be rehabilitated in accord Rehabilitation). Rehabilitation to occur as soon of any boreholes). Should any Aboriginal sites be discovered staff of information on the AHIMS Mobile APP (which is would then be avoided by placing a 30m buffer the area will be raised directly with Heritage NS No drillholes will be advanced within 200m of the N/A | voided for this progr e landholders. ot required. Sites an inior clearing of gra root stock to enabl original Sites noted ed less than 200m fr anced within 200m of illholes will be move of Practice: Environr t requirements of th uding water, land, ai an heritage objects, ance with title cond as practicable after will inform manager is Heritage NSW pref around it. Any cond W on 02 9873 8500 he Macquarie River. Are further studies required on impacts or | ram. Access to proposed collar locations re relatively flat and open. ass from the surface. Should this be e existing vegetation regrowth. within the proposed drilling area on the rom the south eastern point of the of the Macquarie River. There are many ed so they do not sit within 40m of any mental Management) as per the his Code include minimising potential ir), culture and heritage (Aboriginal and /items/areas to be demarcated and ditions (Exploration Code of Practice: completion of activity (including sealing ment teams who will record the ferred method of recording). This site terns regarding new sites and working in b. | |

| Can the impacts be reversed? | Uncertain | Ranking of potential significance | Low |
|--|---|--|--|
| Can the impacts be mitigated? | Uncertain | Justification for r | anking |
| Do the operations comply with standards, plans, policies? | Yes | | |
| Criteria | Land Use Impacts: Any major changes in land use, including curtailment of other beneficial land uses. | | |
| Potential impacts | The land is currently used for agricultural grazin the proposed drilling works due to short term a locations are shown on the maps, however give to not adversely affect the environment - veget Negligible impacts and limited to immediate vic Areas used for exploration activities, temporari (e.g. temporary impacts on productive rural ind | nd temporary nature en the landscape in ation or drainage. inity of site. ly removed from ex | re of exploration. Proposed collar the area, holes may require to be moved isting land use/s but no long term impact |
| | The area is predominantly open grazing land wi vegetation will be avoided and do not need to be flat with many drainage channels that will be av will be undertaken in close consultation with the DISTURBANCE: Earthworks and veg clearing is m Drill pad areas (approx 10 x 20m) may require m | be disturbed for this voided for this progr e landholders. Not required. Sites a | s drilling program. Topography is typically ram. Access to proposed collar locations re relatively flat and open. |
| | necessary, care will be taken to ensure to leave | | |
| Proposed management controls | Minimal impacts likely and limited to immediat The land is currently used for agricultural grazin the proposed drilling works due to short term a locations are shown on the maps, however give to not adversely affect the environment - veget | ng purposes. The lar nd temporary natur n the landscape in t | nd use will not be changed during or after re of exploration. Proposed collar |
| | Negligible impacts and limited to immediate vicinity of site. | | |
| | Areas used for exploration activities, temporarily removed from existing land use/s but no long term impact (e.g. temporary impacts on productive rural industries, including agriculture). | | |
| | Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). | | |
| | All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. | | |
| | Legislative requirement for landholder access arrangements and compensation limit any potential impacts. | | |
| | Hours of Operations: 12 hour shifts, 7 days a we location. This homestead is located approx 400 on Map1 Site Plan. NOISE MGMT: Noise is not anticipated to be of drilling does not generate excessive noise. Drilling will not occur within 200m of sensitive r only. The landholders are fully informed with th receptors nearby. | m N from one of the concern with the pr receptors. Drilling w | e tentative locations - Macquarie 4 noted roposed diamond drilling as this style of rorks will be undertaken in daylight hours |
| Duration | Short term | | |
| Application ranking | | | |
| What is the confidence in predicting impacts? | High | Are further studies | No |
| inpacts: | | required on impacts or | |
| How resilient is the environment to | High Resilience | mitigation? What is the | Low |
| cope with impacts? | I IIGII NESIIIETILE | level of public | |
| Can the impacts be reversed? | Yes | concern? Ranking of potential | Low |
| | | significance | |
| Can the impacts be mitigated? | No | Justification for r | anking |
| Do the operations comply with | Yes | | |
| standards, plans, policies? | | I | |

| Criteria | Transportation Impacts: Substantial impacts on existing transportation systems (road, rail, pedestrian) which | | |
|--------------------------------------|--|---|--|
| Potential impacts | alter present patterns of circulation or movement. There will be no significant impact on transportation from a small temporary drilling program | | |
| Proposed management controls | Short term additional traffic during exploration activity, primarily during set-up/construction stage. | | |
| roposed management controls | Limited to immediate site. Subject to landholder agreement and any compensation. | | |
| Duration | Short term | ionael agreement a | |
| Application ranking | | | |
| What is the confidence in predicting | High | Are further | No |
| impacts? | 11611 | studies | 140 |
| inipacto. | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Fully | Justification for r | anking |
| Do the operations comply with | Yes | | 0 |
| standards, plans, policies? | | | |
| Criteria | Transportation Impacts: Impacts associated wit | h direct or indirect | additional traffic. |
| Potential impacts | | | |
| Proposed management controls | There will be no significant impact on transportation from a small temporary drilling program Short term additional traffic during exploration activity, primarily during set-up/construction stage. | | |
| roposed management controls | 5 1 | <i>//</i> 1 <i>/</i> | nd any compensation. |
| Duration | Short term | ionaci agreement a | |
| Application ranking | | | |
| What is the confidence in predicting | High | Are further | No |
| impacts? | 1161 | studies | 110 |
| inipacto. | | required on | |
| | | impacts or | |
| | | mitigation? | |
| How resilient is the environment to | High Resilience | What is the | Low |
| cope with impacts? | | level of public | |
| | | concern? | |
| Can the impacts be reversed? | Yes | Ranking of | Low |
| | | potential | |
| | | significance | |
| Can the impacts be mitigated? | Fully | Justification for r | anking |
| Do the operations comply with | Yes | | 0 |
| standards, plans, policies? | | | |
| Criteria | Consistency with applicable local strategic plan | ning statements, rep | gional strategic plans or district strategic |
| | plans. | | |
| Potential impacts | Temporary and short term impact on the land. | porary and short term impact on the land. | |
| | The area is prodominantly onen grazing land with sparse vegetation (Drivate freehold land). Any areas of | | |
| | The area is predominantly open grazing land with sparse vegetation (Private freehold land). Any areas of vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically | | |
| | flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | |
| | | | |
| | DISTURDANCE: Earthworks and you clearing is not required. Sites are relatively flat and open | | |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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 | | |
| | | | |
| | The Macquarie Marshes Wetlands are identified in the Warren Local Environmental Plan 2012. Mineral exploration drilling is not declared as designated development in the Warren LEP. The low impact nature of | | |
| | the drilling and small footprint will not result in land. Map and further information relating to t | | |

| Proposed management controls | Exploration comprises development that does not need consent under the EP&A Act and associated local, regional and district plans. There will be no conflict or inconsistency with applicable local strategic planning statements, regional strategic plans or district strategic plans. | | | |
|---|---|--|-----|---|
| | Minimal impacts likely and limited to immediate | e site of the activity | | |
| | Impacts are compensable under relevant legislation, including Mining Act 1992 and Petroleum (Onshore) Act 1991. Subject to landholder agreement and any compensation. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes). Works occur only during dry season. Limit vehicle movement and stick to tracks where possible. Drive slowly on tracks. Undertake rehabilitation as soon as practicable, most likely as soon as drill rig has moved from site, but otherwise within 3 months of end of drilling. Strong knowledge of the area and good relationships with landholders will ensure rehabilitation methods are undertaken efficiently and effectively. Ensure all staff and contractors maintain high standards of work and care for the environment. All rubbish and equipment removed from site as soon as practicable. | | | |
| | | | | |
| | | | | |
| Duration | | | | Short term - until land is rehabilitated. |
| Application ranking | | | | |
| What is the confidence in predicting | High | Are further | No | |
| impacts? | | studies required on impacts or | | |
| | | mitigation? | | |
| How resilient is the environment to cope with impacts? | High Resilience | What is the level of public concern? | Low | |
| Can the impacts be reversed? | Uncertain | Ranking of potential significance | Low | |
| Can the impacts be mitigated? | Fully | Justification for ranking | | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | | | | |
| Criteria | Matters of National Environmental Significance: Impacts on MNES under the Commonwealth Environmental Protection and Biodiversity Conservation Act 1999: | | | |
| Potential impacts | On the MNES search there are 22 listed Threatened species, 4 listed Threatened Ecological Communities and 8 Listed Migratory Species. Of the 22 threatened species the Silver Perch, Bidyan and the Curlew Sandpiper are considered to be critically endangered. The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The Silver Perch will be in waterways which will not be affected by proposed works. The four threatened communities show Coolibah Black Box and Poplar Box Grassy to be likely in this area there are no recovery plans for this species. The Macquarie Marshes is located close to the east of the proposed drilling area - approximately 200m. When the marshes occasionally flood the proposed drilling area would be affected. Site access will not be undertaken in times of flood. The Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) comes into force when a proposed action is likely to have a significant impact on a matter of national environmental significance (MNES), such as a listed threatened species or ecological community. | | | |

| | of activity (including sealing of any boreholes). Short term | | |
|---|---|---|--|
| | as per the commitment in the application (APO). Relevant requirements of this Code include minimising all impacts on the environment. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion | | |
| Proposed management controls | Short term impacts predominantly limited to im compensation. Activities must comply with | nmediate site. | Subject to landholder agreement and any of Practice: Environmental Management) |
| | DISTURBANCE: Earthworks and veg clearing is not required. Sites are relatively flat and open. Drill pad areas (approx 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. | | |
| | vegetation will be avoided and do not need to be disturbed for this drilling program. Topography is typically flat with many drainage channels that will be avoided for this program. Access to proposed collar locations will be undertaken in close consultation with the landholders. | | |
| | | | |
| | Potential impacts | Only short term and temporary impacts. | |
| standards, plans, policies? Criteria | Cumulative Impacts: Cumulative environmental | al effects with other existing or likely future activities. | |
| Do the operations comply with | Yes | | |
| Can the impacts be mitigated? | Uncertain | significance Justification for ranking | |
| Can the impacts be reversed? | Uncertain | Ranking of potential | Low |
| cope with impacts? | | level of public concern? | |
| How resilient is the environment to | Medium Resilience | impacts or mitigation? What is the | Low |
| impacts? | | studies required on | |
| Application ranking What is the confidence in predicting | High | Are further | No |
| Duration | N/A | | |
| | Under the Commonwealth EPBC Act, the onus is on the person proposing to take an action to determine whether there is likely to be a significant impact on any MNES and if so, to prepare a referral for the Commonwealth Minister's consideration as to whether or not the project would require approval. If approva is required, then this is a separate approval process under Commonwealth legislation and the exploration activity cannot be undertaken until this Commonwealth approval has been granted. The granting of an approval to undertake exploration activities under NSW legislation does not negate the need for a proponer to obtain any separate Commonwealth approvals prior to proceeding. The applicant completed a self-assessment 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. | | |
| | | | |
| | | | |
| | | | |
| | whether a significant impact would occur. | | |
| | the Environment and Water (DCCEEW)on 28 Ma The referral was in relation to a potential impac During their meeting, DCCEEW advised the appli meeting would be provided, and that the applic | ct on the Ramsar list licant that no forma | l response regarding the pre-referral |
| | the ground conditions the best. The applicant held a pre-referral meeting with t | he Commonwealth | Department of Climate Change, Energy, |
| | In times of high rainfall this area can extend into levels this drilling will not be undertaken until w proposed drilling area. Proposed collars will not drainages. Specific access to sites will be undert | vater subsides. Ther t be progressed if th | e are several drainages within the ey occur within 40m of any existing |
| | impact to the Wetlands and Macquarie Marshe management of identified risks and sensitivities | - | ing protocols are in place to ensure |
| | communities and the habitats of threatened sp. Crews are instructed to not interact with wildlif The applicant completed a self-assessment with | e or vegetation dur | ing the drilling activities. |
| | migratory species. Vegetation is not to be cleared as part of the pr | ogram therefore no | t damaging threatened ecological |

| plication ranking | | | | |
|--------------------------------------|-----------------|---------------------|---------------------------|--|
| What is the confidence in predicting | High | Are further | No | |
| impacts? | | studies | | |
| | | required on | | |
| | | impacts or | | |
| | | mitigation? | | |
| How resilient is the environment to | High Resilience | What is the | Low | |
| cope with impacts? | | level of public | | |
| | | concern? | | |
| Can the impacts be reversed? | Yes | Ranking of | Low | |
| | | potential | | |
| | | significance | | |
| Can the impacts be mitigated? | Fully | Justification for r | Justification for ranking | |
| Do the operations comply with | Yes | | | |
| standards, plans, policies? | | | | |

FORM: Brief NonCEA (v3.4)

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