Monday 22 April 2024

Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors

Nyngan | APO0001742

Decision Maker	Monique Meyer
Prepared by	Marianne Bonnay
Title	EL 8911 (1992)
Authorised Representative	[redacted]
Project name	Nyngan
Activity type	Non-Complying Exploration Activity

Issue

[redacted] has sought an activity approval in respect of Nyngan, within EL 8911 (1992), at 3km north from Nyngan.

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

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

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

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

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

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

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

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

Background

This exploration activity approval is being sought under EL 8911 (granted 8/11/2019 & expiry 8/11/2025) to undertake assessable prospecting operations.

The current security deposit held for EL 8911 is $10,000.

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 Nyngan* 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 Nyngan is approved.

Refer to RCE Record RCE0001922

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

Recommendation

The Decision Maker, under delegation from the Minister:

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

Review of Environmental Factors document

Criteria	Air Impacts: Air quality impacts (including impacts on nearby sensitive receptors).		
Potential impacts	Air impacts from the proposed program are negligible. There is one homestead, River Ridge Homestead, located within the proposed drilling area. The relevant landholders in this area are fully informed with the proposed drilling and appropriate access agreements will be in place prior to any works. There are no further sensitive receptors nearby. The town of Nyngan is located approximately 2km south of the proposed drilling area, however tentatively proposed holes are towards the centre and north of this approval area and as such not considered to be of much concern as works have occurred in this area previously. As mud rotary and diamond drilling does not produce significant dust the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes. No new tracks are being created.		
Proposed management controls	Drilling will not occur within 400m of sensitive receptors. Vehicles will travel slowly along all farm tracks to minimise travelling dust. Vehicles will be well maintained to minimise excessive exhaust fumes. Landholder consultation will occur throughout the whole program to ensure best and appropriate practices are being maintained.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No

How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Air Impacts: Greenhouse or ozone impacts.		
Potential impacts	Air impacts from the proposed program are negligible. There is one homestead, River Ridge Homestead, located within the proposed drilling area. The relevant landholders in this area are fully informed with the proposed drilling and appropriate access agreements will be in place prior to any works. There are no further sensitive receptors nearby. The town of Nyngan is located approximately 2km south of the proposed drilling area, however tentatively proposed holes are towards the centre and north of this approval area and as such not considered to be of much concern as works have occurred in this area previously. As mud rotary and diamond drilling does not produce significant dust the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes. No new tracks are being created.		
Proposed management controls	Drilling will not occur within 400m of sensitive receptors. Vehicles will travel slowly along all farm tracks to minimise travelling dust. Vehicles will be well maintained to minimise excessive exhaust fumes. Landholder consultation will occur throughout the whole program to ensure best and appropriate practices are being maintained.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Air Impacts: Additional impacts on areas with degraded air quality.		
Potential impacts	Air impacts from the proposed program are negligible. There is one homestead, River Ridge Homestead, located within the proposed drilling area. The relevant landholders in this area are fully informed with the proposed drilling and appropriate access agreements will be in place prior to any works. There are no further sensitive receptors nearby. The town of Nyngan is located approximately 2km south of the proposed drilling area, however tentatively proposed holes are towards the centre and north of this approval area and as such not considered to be of much concern as works have occurred in this area previously. As mud rotary and diamond drilling does not produce significant dust the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes. No new tracks are being created.		
Proposed management controls	Drilling will not occur within 400m of sensitive receptors. Vehicles will travel slowly along all farm tracks to minimise travelling dust. Vehicles will be well maintained to minimise excessive exhaust fumes. Landholder consultation will occur throughout the whole program to ensure best and appropriate practices are being maintained.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low

Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from the use of surface or groundwater.		
Potential impacts	Water obtained for this drilling will be from farm dams in consultation with landholders or trucked in from the nearby town of Nyngan. There will be no impact to surface or groundwater, and no change to natural waterbodies or runoff patterns. Any groundwater encountered during drilling will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.		
Proposed management controls	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as this area has been drilled previously with no concerns. Above ground sump used for water managment. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.		
Duration	3-5		
Application ranking	Positive		
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?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from storage of water		
Potential impacts	Water obtained for this drilling will be from farm dams in consultation with landholders or trucked in from the nearby town of Nyngan. There will be no impact to surface or groundwater, and no change to natural waterbodies or runoff patterns. Any groundwater encountered during drilling will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.		
Proposed management controls	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as this area has been drilled previously with no concerns. Above ground sump used for water managment. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low

Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from changes to natural water bodies, wetlands or runoff patterns.		
Potential impacts	Water obtained for this drilling will be from farm dams in consultation with landholders or trucked in from the nearby town of Nyngan. There will be no impact to surface or groundwater, and no change to natural waterbodies or runoff patterns. Any groundwater encountered during drilling will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.		
Proposed management controls	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as this area has been drilled previously with no concerns. Above ground sump used for water managment. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.		
Duration	3-5		
Application ranking	Positive		
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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from aquifer interference, including changes to inter-aquifer connectivity.		
Potential impacts	Water obtained for this drilling will be from farm dams in consultation with landholders or trucked in from the nearby town of Nyngan. There will be no impact to surface or groundwater, and no change to natural waterbodies or runoff patterns. Any groundwater encountered during drilling will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.		
Proposed management controls	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as this area has been drilled previously with no concerns. Above ground sump used for water managment. same strata and not cross to different water bearing strata. GW Groundwater encountered during drilling will be managed and contained by the drilling methods. The Company have drilled several holes in this area and have not encountered any difficulties with water. There are several water bores located around the area, the closest being; GW801615 – located at a homestead in the south of the area, drilled in 2002 as a stock and domestic bore to 36.0m, standing water level recorded at 15m and yield recorded 2.5L/s. GW805502 – drilled in 2010 as a monitoring bore to 20.5m, standing water level recorded at 16.7m and yield recorded 0.1L/s.		
Duration	3-5		
Application ranking	Positive		

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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from changes to flooding or tidal regimes.		
Potential impacts	Water obtained for this drilling will be from farm dams in consultation with landholders or trucked in from the nearby town of Nyngan. There will be no impact to surface or groundwater, and no change to natural waterbodies or runoff patterns. Any groundwater encountered during drilling will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.		
Proposed management controls	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as this area has been drilled previously with no concerns. Above ground sump used for water management. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.		
Duration	3-5		
Application ranking	Positive		
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 ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Water Impacts: Impacts from changes in surface or groundwater quality and quantity.		
Potential impacts	Water obtained for this drilling will be from farm dams in consultation with landholders or trucked in from the nearby town of Nyngan. There will be no impact to surface or groundwater, and no change to natural waterbodies or runoff patterns. Any groundwater encountered during drilling will be managed and contained by the drilling methods to ensure that water is contained in the same strata and not cross to different water bearing strata. The Company have drilled many holes in this area and have not encountered any difficulties with water. The program is not expected to have an impact on surface water.		
Proposed management controls	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as this area has been drilled previously with no concerns. Above ground sump used for water management. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.		
Duration	3-5		
Application ranking	Positive		

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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Degradation of soil quality (including contamination, salinisation or acidification).		
Potential impacts	There are no acid sulfate soils within this area. The proposed drilling area is covered with soil type 4 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of three drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. The watercourses with vegetation on the eastern and western sides of this proposed drilling area host increased vegetation which will assist to reduce any wind erosion. 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. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Proposed management controls	There will be no vegetation clearing for this drill program. Minor clearing of grass may be required to make sites safe, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. Minimal surface disturbance to ensure minimal impact to the soil. Utilising existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Impacts on land with high agricultural capability.		

Potential impacts	There are no acid sulfate soils within this area. The proposed drilling area is covered with soil type 4 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of three drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. The watercourses with vegetation on the eastern and western sides of this proposed drilling area host increased vegetation which will assist to reduce any wind erosion. 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. AIS- level 1 Reviewed by RR on 16/4/2024- No issues detected. "Proposed exploration activities will not impact either agricultural resources or local enterprises with activities expected to take approximately 3-5 weeks to complete (should all 3 holes be drilled)."		
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. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Loss of soil from wind or water erosion.		
Potential impacts	There are no acid sulfate soils within this area. The proposed drilling area is covered with soil type 4 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of three drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. The watercourses with vegetation on the eastern and western sides of this proposed drilling area host increased vegetation which will assist to reduce any wind erosion. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.		

Proposed management controls	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. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Loss of structural integrity of the soil.		
Potential impacts	There are no acid sulfate soils within this area. The proposed drilling area is covered with soil type 4 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of three drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. The watercourses with vegetation on the eastern and western sides of this proposed drilling area host increased vegetation which will assist to reduce any wind erosion. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.		
Proposed management controls	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. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No

How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Increased land instability with high risks from land slides or subsidence.		
Potential impacts	There are no acid sulfate soils within this area. The proposed drilling area is covered with soil type 4 from the Land and Soil Capability Classification, which is moderate to severe limitations. A maximum of three drillholes are proposed and this drilling is likely to take approximately 7-10 days per hole. Due to the sensitivity of the soil, access will be restricted to only vital personnel and vehicle movement will be restricted where possible. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder will be maintained throughout this program. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered. The watercourses with vegetation on the eastern and western sides of this proposed drilling area host increased vegetation which will assist to reduce any wind erosion. Salinity of groundwater will be considered, however with the proposed drilling methods groundwater will remain in the ground and any drilling waters will be contained in above ground sumps and not affect the surrounding surface.		
Proposed management controls	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. Topography is typically flat.		
Duration	3-5		
Application ranking	Positive		
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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Noise & Vibration Impacts: Results in increased noise or vibration.		
Potential impacts	River Ridge Homestead is located within the drilling approved area. Actual proposed collar locations have not been finalised, however will be more than 400m from the homestead. Drilling will be undertaken in daylight hours only and the mud rotary and diamond drilling method selected has relatively low noise outputs compared to other drilling methods. Any relevant stakeholders will be notified of works.		
Proposed management controls	Drilling will not occur within 400m of sensitive receptors. Drilling works will be undertaken in daylight hours only. TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week. Drilling is expected to take approximately 3-5 weeks to complete, or 1-2 weeks per drillhole. Not all collars may be drilled. 29 April-8 Nov 2025 There is one homestead, River Ridge Homestead, located within the proposed drilling area. The relevant landholders in this area are fully informed with the proposed drilling and appropriate access agreements will be in place prior to any works. There are no further sensitive receptors nearby. The town of Nyngan is located approximately 2km south of the proposed drilling area.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No

How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Noise & Vibration Impacts: Affects sensitive receptors.		
Potential impacts	River Ridge Homestead is located within the drilling approved area. Actual proposed collar locations have not been finalised, however will be more than 400m from the homestead. Drilling will be undertaken in daylight hours only and the mud rotary and diamond drilling method selected has relatively low noise outputs compared to other drilling methods. Any relevant stakeholders will be notified of works.		
Proposed management controls	Drilling will not occur within 400m of sensitive receptors. Drilling works will be undertaken in daylight hours only. TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week. Drilling is expected to take approximately 3-5 weeks to complete, or 1-2 weeks per drillhole. Not all collars may be drilled. 29 April-8 Nov 2025 There is one homestead, River Ridge Homestead, located within the proposed drilling area. The relevant landholders in this area are fully informed with the proposed drilling and appropriate access agreements will be in place prior to any works. There are no further sensitive receptors nearby. The town of Nyngan is located approximately 2km south of the proposed drilling area.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Coastal Location & Processes: Affects coastal processes and coastal hazards, including those under projected climate change conditions.		
Potential impacts	n/a		
Proposed management controls	n/a		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	Low
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Hazardous substances or chemicals: Impacts associated with the use, generation, storage or transport of hazardous substances or chemicals.		
Potential impacts	Diesel fuel is the only anticipated hydrocarbon to be used on site. It will be transported to site in a dedicated diesel tank mounted on an auxiliary drill vehicle. A spill kit will always be on site and minor spills will be cleaned up and waste material removed from site and disposed of at the nearest appropriately licensed waste facility.		

Proposed management controls	Maintain regular checks of all fuel and lubricants, provide bunded areas where required. A spill kit will be at the site at all times. WASTE Drill core will be removed from site to a Company storage facility. Once drilling is complete, all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts to the environment resulting from the generation or disposal of wastes.		
Potential impacts	There should be minimal impact to the environment from the proposed short drilling program. Fuels maintained in appropriately bunded storage tanks. There will be no disposal of drilling waste at site – all waste removed from site and disposed of at appropriately licenced waste facility.		
Proposed management controls	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. WASTE Drill core will be removed from site to a Company storage facility. Once drilling is complete, all materials will be removed from site. The collar will be capped and area made safe with all rubbish and drilling equipment removed from site at end of drilling program.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on drinking water catchments, wetlands, natural water bodies, riparian zones or flood prone areas.		
Potential impacts	There will be no impact on any of the above during this proposed short drilling program. Above ground sump used for water maangement.		
Proposed management controls	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. Above ground sump used for water management. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best.		
Duration	3-5		

Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on groundwater recharge areas or areas with high water table.		
Potential impacts	There will be no impact on any of the above during this proposed short drilling program. Groundwater from the nearby bore is recorded as siting around 15m below existing ground level across this area. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata.		
Proposed management controls	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. Above ground sump used.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes and Emissions: Impacts on coastlines or dunes, alpine areas, karst features or other unique landforms.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Wastes & Emissions: Impacts on erosion prone areas, areas with slopes of greater than 18 degrees.		
Potential impacts	N/A Topography is typically flat.		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		

What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Wastes & Emissions: Impacts on subsidence or slip areas.		
Potential impacts	There will be no impact on any of the above during this proposed short drilling program. Topography is typically flat.		
Proposed management controls	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. REHABILITATION The drillhole will be backfilled and rehabilitated in accordance with the requirements of the Exploration Code of Practice – Rehabilitation. The top of the hole will be backfilled with surface soil and topsoil. Above ground sumps will be emptied, and contents disposed of at a suitable facility. DISTURBANCE 600sqm for application		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with acid sulphate, sodic or highly permeable soils.		
Potential impacts	There are no acid sulfate soils within this area. LSC 4. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder. Wind erosion will be assessed in consultation with the landholder prior to site access and mitigation measures considered.		
Proposed management controls	REHABILITATION The drillhole will be backfilled and rehabilitated in accordance with the requirements of the Exploration Code of Practice – Rehabilitation. The top of the hole will be backfilled with surface soil and topsoil. Above ground sumps will be emptied, and contents disposed of at a suitable facility.		
Duration	3-5		
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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		

Criteria	Wastes & Emissions: Impacts on areas with salinity or potential salinity problems.		
Potential impacts	There will be no impact on any of the above during this proposed short drilling program. Groundwater sources should not be adversely affected by the proposed drilling. Groundwater from the nearby bore is recorded as siting around 15m below existing ground level across this area. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata.		
Proposed management controls	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with degraded or contaminated land.		
Potential impacts	There will be no impact on any of the above during this proposed short drilling program. There are no acid sulfate soils within this area. LSC 4. Should compaction occur of the temporary access routes, this will likely be scarified after use by the landholder. Close consultation with the landholder.		
Proposed management controls	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Wastes & Emissions: Impacts on areas with degraded or contaminated water (ground or surface).		
Potential impacts	There will be no impact on any of the above during this proposed short drilling program. Above ground sump used for water management. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best. Groundwater sources should not be adversely affected by the proposed drilling. Groundwater from the nearby bore is recorded as siting around 15m below existing ground level across this area. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata.		

Proposed management controls	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Vegetation: Any clearing or modification of vegetation (including impacts on wildlife corridors, remnant vegetation & habitat for species of conservation significance).		
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. Above ground sumps and so no excavations are required. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Proposed management controls	Any areas of vegetation will be avoided.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Threatened Fauna Species: Any adverse effect on the life cycle of any threatened species such that a viable local population of the species is likely to be placed at risk of extinction.		

Potential impacts	On the MNES search there are 27 listed Threatened species, 4 listed Threatened Ecological Communities and 7 Listed Migratory Species. Of the 27 threatened species the Curlew Sandpiper, Swift Parrot, Plains Wanderer and the Silver Perch are considered to be critically endangered (the link in the MNES states the Curlew Sandpiper, Swift Parrot and Plains Wanderer to be endangered and not critical specifically for NSW, and the Silver Perch is recorded as Vulnerable). There are no critically endangered listings in the threatened ecological communities category, all four are classified as endangered; Coolibah, Grey Box, Poplar Box Grassy Woodland and Weeping Myall Woodlands. The 7 listed migratory species has the Curlew Sandpiper listed as critically endangered – however the link to this species differs stating for NSW this is endangered. The temporary proposed drilling activities will be undertaken with due care within cropping and/or grazing paddocks, will not be undertaken in periods of wet ground conditions, do not need to affect any vegetation and as such adverse affects to the flora and fauna are not anticipated. The BioNet Search has listed threatened species in the areas around the proposed drilling location and these should not be adversely impacted with the proposed works. Major Mitchells Cockatoo is listed as vulnerable and protected and was sighted in 2001 with no accurate location details. Note that Black Box woodland wetland on NSW central and northern floodplains including the Darling Riverine Plains Bioregion and Brigalow Belt South Bioregion is listed endangered in MNES and mapped within exploration area proposed.		
Proposed management controls	Drilling during dry conditions 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. Works are proposed within the paddocks and no vegetation damage therefore limiting the affects to threatened species in this area.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impacts on Threatened species.	
Criteria	Threatened Flora Species: Any adverse effect on the life cycle of any threatened species such that a viable local population of the species is likely to be placed at risk of extinction.		
Potential impacts	On the MNES search there are 27 listed Threatened species, 4 listed Threatened Ecological Communities and 7 Listed Migratory Species. Of the 27 threatened species the Curlew Sandpiper, Swift Parrot, Plains Wanderer and the Silver Perch are considered to be critically endangered (the link in the MNES states the Curlew Sandpiper, Swift Parrot and Plains Wanderer to be endangered and not critical specifically for NSW, and the Silver Perch is recorded as Vulnerable). There are no critically endangered listings in the threatened ecological communities category, all four are classified as endangered; Coolibah, Grey Box, Poplar Box Grassy Woodland and Weeping Myall Woodlands. The 7 listed migratory species has the Curlew Sandpiper listed as critically endangered – however the link to this species differs stating for NSW this is endangered. The temporary proposed drilling activities will be undertaken with due care within cropping and/or grazing paddocks, will not be undertaken in periods of wet ground conditions, do not need to affect any vegetation and as such adverse affects to the flora and fauna are not anticipated. The BioNet Search has listed threatened species in the areas around the proposed drilling location and these should not be adversely impacted with the proposed works. Major Mitchells Cockatoo is listed as vulnerable and protected and was sighted in 2001 with no accurate location details. Note that Black Box woodland wetland on NSW central and northern floodplains including the Darling Riverine Plains Bioregion and Brigalow Belt South Bioregion is listed endangered in MNES and mapped within exploration area proposed.		
Proposed management controls	Drilling during dry conditions 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. Works are proposed within the paddocks and no vegetation damage therefore limiting the affects to threatened species in this area.		
Duration	3-5		
Application ranking	Negligible		

What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impacts on Threatened species.	
Criteria	Areas of outstanding biodiversity value/Critical habitat: This includes: a. declared areas of outstanding biodiversity value under the Biodiversity Conservation Act 2016 b. areas declared critical habitat under the Fisheries Management Act 1994.		
Potential impacts	There are no areas of critical habitat/area of outstanding biodiversity within the approval area.		
Proposed management controls	Extreme care will be taken on this site to avoid uncontrolled fires. Weather conditions and bush fire alert levels will be monitored. Local emergency services contact details will be readily available for the duration of 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	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impacts on Threatened species.	
Criteria	Endangered ecological community or critically endangered ecological community: Whether the activity: is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction.		
Potential impacts	There will be no impact to any of the four potentially occurring endangered communities listed as likely to occur within the proposed drilling area on the MNES search; Coolibah – Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions, Poplar Box Grassy Woodland on Alluvial Plains and Weeping Myall Woodlands.		
Proposed management controls	All proposed drilling is within open paddocks. Drillholes can be moved to avoid any and all vegetation.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Impacts on Threatened species.	
Criteria	Habitat of a threatened species or ecological community		
Potential impacts	There will be no impact to any threatened species or ecological community as all drilling will be progressed in open grazing paddocks.		

Proposed management controls	All proposed drilling is within open paddocks. Drillholes can be moved to avoid any and all vegetation. There are several flora and fauna records that come up on the BioNet search as being of protected or vulnerable status – the majority of which are outside of the proposed drilling area around the named watercourses. Areas where the majority of these BioNet sightings occur, are the more vegetated areas around the waterways. Drillholes are planned in consultation with landholders, mapped information and vegetation is avoided, once on the ground drill collars will be moved should vegetation be nearby. Collars may be moved slightly within the approval polygon, however all sensitivities noted in this application will be considered. There are several freshwater fish threatened species recorded within the Bogan River – Olive Perchlet, Eel Tailed Catfish and Darling River Snail. The Bogan River will not be within 200m of any drilling, likely much further away, and so no adverse effects to these species is envisaged.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impacts on Threatened species.	
Criteria	Habitat of protected aquatic species or those with conservation status.		
Potential impacts	There will be no impact to any threatened species or ecological community as all drilling will be progressed in open grazing paddocks. Surface water should not be affected by the proposed activities. The nearest watercourses, the Box Cowal and the Bogan River are located on the eastern and western peripheries of this approval area. Actual collar locations will be drilled more than 100m away from any watercourse. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best. There are several freshwater fish threatened species recorded within the Bogan River – Olive Perchlet, Eel Tailed Catfish and Darling River Snail. The Bogan River will not be within 200m of any drilling, likely much further away, and so no adverse effects to these species is envisaged.		
Proposed management controls	All proposed drilling is within open paddocks. Drillholes can be moved to avoid any and all vegetation.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
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 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. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Proposed management controls	Drill site locations are determined based on area of least impact to the environment. Rehabilitation will be undertaken as soon as is reasonably practicable but within the timeframe of this drilling approval application.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Barriers to movement of fauna: Any potential to endanger, displace or disturb fauna (including fauna of conservation significance) or create a barrier to their movement.		
Potential impacts	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. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Proposed management controls	Drill site locations are determined based on area of least impact to the environment. Rehabilitation will be undertaken as soon as is reasonably practicable but within the timeframe of this drilling approval application.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	No	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Ecological & Biosecurity Impacts: Any threat to the biological diversity or ecological integrity of an ecological community.		

Potential impacts	No impact envisaged The majority of the drilling area is recorded within the Bogan LEP 2011 as terrestrial biodiversity – of moderate, high sensitivity and also unclassified. The high sensitivity areas align quite well with the lightly wooded/ vegetated areas around the watercourses. The moderate sensitivity and unclassified areas are predominantly the paddocks where proposed drilling will take place. The temporary drilling program is proposed within the paddocks and no vegetation to be damaged, therefore is not anticipated to have adverse impacts on the flora and fauna.		
Proposed management controls	Extreme care will be taken on this site to avoid uncontrolled fires. Weather conditions and bush fire alert levels will be monitored. Local emergency services contact details will be readily available for the duration of 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	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
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 standards, plans, policies?	Yes		
Criteria	Ecological & Biosecurity Impacts: Creates a biosecurity risk or introduces genetically modified organisms into an area. Includes impacts from the introduction of: a. mobilisation of pollutants b. animal pests, c. plant pests and diseases, d. animal diseases, e. noxious weeds, or f. genetically modified organisms.		
Potential impacts	No impact envisaged Above ground sumps and so no excavations are required. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. DISTURBANCE 600sqm for application		
Proposed management controls	Extreme care will be taken on this site to avoid uncontrolled fires. Weather conditions and bush fire alert levels will be monitored. Local emergency services contact details will be readily available for the duration of 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	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	No	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Ecological & Biosecurity Impacts: Likely to cause a significant bushfire risk.		
Potential impacts	No impact envisaged		

Proposed management controls	Extreme care will be taken on this site to avoid uncontrolled fires. Weather conditions and bush fire alert levels will be monitored. Local emergency services contact details will be readily available for the duration of 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	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Extended bushfire.	
Criteria	Community Resources: Any degradation of infrastructure or significant increase in the demand for services and infrastructure resources.		
Potential impacts	There will be no impact to the demand or use of local services and resources for this drill program. Equipment will comprise a diamond drilling rig and support vehicles. A light vehicle will also be used by the field technician and geologist.		
Proposed management controls	ACCESS Access to proposed drilling locations will be along station tracks and along the edges of paddocks if necessary, in line with relevant landholder specifications. No new tracks are required to be constructed.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Community Resources: Any diversion of resources to the detriment of other communities or natural systems.		
Potential impacts	No diversion of resources required. Equipment will comprise a diamond drilling rig and support vehicles. A light vehicle will also be used by the field technician and geologist.		
Proposed management controls	Work will be undertaken in dry conditions and not during wet weather. Vehicle movement will be kept to a minimum to minimise vehicle damage as much as possible. ACCESS Access to proposed drilling locations will be along station tracks and along the edges of paddocks if necessary, in line with relevant landholder specifications. No new tracks are required to be constructed. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.		
Duration	3-5		
Application ranking			
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A

How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Natural Resources: Any disruption, depletion or destruction of natural resources.		
Potential impacts	The proposed drilling program is not anticipated to disrupt, deplete, or destroy any natural resources. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.		
Proposed management controls	Work will be undertaken in dry conditions and not during wet weather. Vehicle movement will be kept to a minimum to minimise vehicle damage as much as possible.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Natural Resources: Any disruption of existing activities which rely on natural resources, including forestry, farming or extractive industries (or reduction of options for future activities).		
Potential impacts	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. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.		
Proposed management controls	Work will be undertaken in dry conditions and not during wet weather. Vehicle movement will be kept to a minimum to minimise vehicle damage as much as possible.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Natural Resources: Any use which results in the degradation of any area reserved for conservation purposes.		

Potential impacts	The area is identified of moderate and high sensitivity for Terrestrial Biodiversity in the Bogan Local Environmental Plan 2011. The low impact nature of the drilling and small footprint will not result in the degradation of the sensitive areas. Mineral exploration drilling is not declared as designated development in the Bogan LEP. The proposed works will only be conducted in dry conditions, and access will be discussed in close consultation with affected landholders. Bogan Local Environmental Plan 2011 - NSW Legislation- Condition 7.4 Terrestrial Biodiversity The majority of the drilling area is recorded within the Bogan LEP 2011 as terrestrial biodiversity – of moderate, high sensitivity and also unclassified. The high sensitivity areas align quite well with the lightly wooded/ vegetated areas around the watercourses. The moderate sensitivity and unclassified areas are predominantly the paddocks where proposed drilling will take place. The temporary drilling program is proposed within the paddocks and no vegetation to be damaged, therefore is not anticipated to have adverse impacts on the flora and fauna.		
Proposed management controls	Work will be undertaken in dry conditions and not during wet weather. Vehicle movement will be kept to a minimum to minimise vehicle damage as much as possible.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Biodiversity could be affected.	
Criteria	Sensitive Land Impacts: Impacts on National parks and other areas reserved or dedicated or acquired under the National Parks and Wildlife Act 1974.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Land subject to a 'conservation agreement' under the National Parks and Wildlife Act 1974 and/or the Biodiversity Conservation Act 2016. This includes: a. Biobanking agreement (established under the now repealed Threatened Species Conservation Act 1995) or a Biodiversity Stewardship agreement established under the Biodiversity Conservation Act 2016. b. Wildlife Refuge agreement established under the Biodiversity Conservation Act 2016. c. Existing conservation agreements that continue to have effect even where legislation has been repealed: Trust agreements under the now repealed Nature Conservation Trust Act 2001 Property vegetation plans made under the now-repealed Native Vegetation Act 2003 Registered property agreements under the repealed Native Vegetation Conservation Act 1997		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A

How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on aquatic reserves or marine parks declared under the Marine Estate Management Act 2014. Impacts on Coastal Zone as defined in the Coastal Management Act 2016.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Fishing grounds and commercial fish breeding or nursery areas.		
Potential impacts	The area is identified of moderate and high sensitivity for Terrestrial Biodiversity in the Bogan Local Environmental Plan 2011. The low impact nature of the drilling and small footprint will not result in the degradation of the sensitive areas. Mineral exploration drilling is not declared as designated development in the Bogan LEP. The proposed works will only be conducted in dry conditions, and access will be discussed in close consultation with affected landholders. Drillholes will not be advanced within 40m of any existing drainages. Specific access to sites will be undertaken in close consultation with the landholder who knows the ground conditions the best. There are several freshwater fish threatened species recorded within the Bogan River – Olive Perchlet, Eel Tailed Catfish and Darling River Snail. The Bogan River will not be within 200m of any drilling, likely much further away, and so no adverse effects to these species is envisaged.		
Proposed management controls	Work will be undertaken in dry conditions and not during wet weather. Vehicle movement will be kept to a minimum to minimise vehicle damage as much as possible.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	No		
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 identified of moderate and high sensitivity for Terrestrial Biodiversity in the Bogan Local Environmental Plan 2011. The low impact nature of the drilling and small footprint will not result in the degradation of the sensitive areas. Mineral exploration drilling is not declared as designated development in the Bogan LEP. The proposed works will only be conducted in dry conditions, and access will be discussed in close consultation with affected landholders.		
Proposed management controls	Work will be undertaken in dry conditions and not during wet weather. Vehicle movement will be kept to a minimum to minimise vehicle damage as much as possible.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impacts on Terrestrial Biodiversity in the Bogan Local area.	
Criteria	Sensitive Land Impacts: Impacts on land reserved or dedicated within the meaning of the Crown Lands Act 1989/Crown Lands Management Act 2016 for preservation of the environment or other environmental protection purposes.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on land identified as wilderness or declared a wilderness area under the Wilderness Act 1987.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Lands: Impacts on wetlands of international significance designated under the Ramsar Convention on Wetlands and those designated as a nationally important wetland in the Directory of Important Wetlands of Australia.		
Potential impacts	N/A		
Proposed management controls	N/A		

Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on land identified in an environmental planning instrument as being of biodiversity / conservation significance or zoned for environmental conservation, protection and/or management. Includes Coastal Wetlands and Littoral rainforests under State Environmental Planning Policy (Resilience and Hazards) 2021.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on Aboriginal heritage protection areas: a. Aboriginal places and objects under the National Parks and Wildlife Act 1974 b. Areas of Aboriginal cultural significance identified in an environmental planning instrument.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on heritage protection areas (historic or natural): a. Nationally and internationally recognised heritage sites or areas (World Heritage List, National Heritage List of Commonwealth Heritage List) b. Items listed on State Heritage c. Heritage items and conservation areas identified in an environmental planning instrument		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		

What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on community land classified under the Local Government Act 1993 (for which a plan of management has been prepared).		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on bushfire prone areas.		
Potential impacts	The area is identified of moderate and high sensitivity for Terrestrial Biodiversity in the Bogan Local Environmental Plan 2011. The low impact nature of the drilling and small footprint will not result in the degradation of the sensitive areas. Mineral exploration drilling is not declared as designated development in the Bogan LEP. The proposed works will only be conducted in dry conditions, and access will be discussed in close consultation with affected landholders.		
Proposed management controls	Work will be undertaken in dry conditions and not during wet weather. Vehicle movement will be kept to a minimum to minimise vehicle damage as much as possible.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Grass and bushfires.	
Criteria	Social Impacts: Any impacts which result in a change in the demographic structure of the community, including changes to workforce or industry structure of the area/region. Including change in demand for community resources (eg community facilities, community services and labour force).		

Potential impacts	The proposed program is small and will not affect the demographics of the local communities. LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. DISTURBANCE 600sqm for application		
Proposed management controls	Exploration has been conducted in this area by ACGH during recent years with no issues raised to date. 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.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Any environmental impact that may cause substantial change or disruption to the community (including loss of facilities or loss of community identity).		
Potential impacts	There will be no impact or change to the community following the proposed drilling program LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. DISTURBANCE 600sqm for application ACCESS: Access to proposed drilling locations will be along station tracks and along the edges of paddocks, if necessary, in line with relevant landholder specifications. No new tracks are required to be constructed.		
Proposed management controls	Exploration has been conducted in this area by ACGH during recent years with no issues raised to date. 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.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Any impacts which result in some individuals or communities being significantly disadvantaged (e.g. change to community facilities, services or labour force).		
Potential impacts	The small program will not disadvantage the community or individuals in the area		

Proposed management controls	Exploration has been conducted in this area by ACGH during recent years with no issues raised to date. 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. ACCESS: Access to proposed drilling locations will be along station tracks and along the edges of paddocks, if necessary, in line with relevant landholder specifications. No new tracks are required to be constructed.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Any impacts on the health, safety, privacy or welfare of individuals or communities caused by factors such as pollution, odour, noise, vibration, lighting, visual impacts, etc).		
Potential impacts	The impacts are minimal and not within proximity to sensitive receptors or communities. TIMING/NOISE 12hr shifts 6am-6pm, 7 days a week. Drilling is expected to take approximately 3-5 weeks to complete, or 1-2 weeks per drillhole. Not all collars may be drilled. 29 April-8 Nov 2025 There is one homestead, River Ridge Homestead, located within the proposed drilling area. The relevant landholders in this area are fully informed with the proposed drilling and appropriate access agreements will be in place prior to any works. There are no further sensitive receptors nearby. The town of Nyngan is located approximately 2km south of the proposed drilling area.		
Proposed management controls	Exploration has been conducted in this area by ACGH during recent years with no issues raised to date. 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.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Social Impacts: Effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations?		
Potential impacts	There will be no detrimental effect on the aesthetics, or any other special value. PROJECT 3km north from Nyngan. DISTURBANCE/LANDUSE: 600sqm for application. The land is currently utilised for agricultural grazing purposes.		
Proposed management controls	Exploration has been conducted in this area by ACGH during recent years with no issues raised to date. 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.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A

How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Impacts on communities with strong sense of identity.		
Potential impacts	There will be no impact or change to the community following the proposed drilling program.		
Proposed management controls	Exploration has been conducted in this area by ACGH during recent years with no issues raised to date. 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.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Impacts on disadvantaged communities.		
Potential impacts	There will be no impact or change to the community following the proposed drilling program.		
Proposed management controls	Exploration has been conducted in this area by ACGH during recent years with no issues raised to date. 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.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Economic Impacts: Any impacts which may affect economic activity (positive or negative), including a decrease to net economic welfare.		
Potential impacts	n/a		
Proposed management controls	n/a		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	Low

Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Economic Impacts: Any impacts that result in a decrease in the economic stability of the community.		
Potential impacts	LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.		
Proposed management controls	n/a		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Economic Impacts: Any impacts which result in a change to the public sector revenue or expenditure base.		
Potential impacts	LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works.		
Proposed management controls	n/a		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Heritage Impacts: Any impacts on a locality, place, landscape, building or archaeological relic of heritage significance.		
Potential impacts	There are no listed heritage items, places, or areas in this proposed drilling area. AHIMS: No records. There is one tentatively proposed collar located 110m from the Box Cowal. HERITAGE: No records.		
Proposed management controls	n/a		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	

Do the operations comply with standards, plans, policies?	Yes		
Criteria	Aesthetic Impacts: Any impacts on the visual or scenic landscape, including lighting, venting or flaring of gas.		
Potential impacts	The proposed drilling will be of short duration and no night works are proposed so no disturbance from lights. One homestead within the approval area, no drilling will be undertaken within 400m of the property.		
Proposed management controls	No drilling within 400m of homestead.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Aesthetic Impacts: Areas or items of high aesthetic or scenic value.		
Potential impacts	The proposed drilling will be of short duration and no night works are proposed so no disturbance from lights. One homestead within the approval area, no drilling will be undertaken within 400m of the property.		
Proposed management controls	No drilling within 400m of homestead.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Cultural Impacts: Any disturbance of the ground surface or any culturally modified trees (e.g. a scar tree).		
Potential impacts	There are no recorded aboriginal objects or places within the proposed drilling area as per the AHIMS search conducted. AHIMS: No records. There is one tentatively proposed collar located 110m from the Box Cowal.		
Proposed management controls	Even though no recorded Aboriginal Sites are within the area, should any new Aboriginal sites be discovered staff will inform the management team who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Displacement or destruction aboriginal of objects or places.	
Criteria	Cultural Impacts: Any impacts on known Aboriginal objects or Aboriginal places.		

Potential impacts	There are no recorded aboriginal objects or places within the proposed drilling area as per the AHIMS search conducted. AHIMS: No records. There is one tentatively proposed collar located 110m from the Box Cowal.		
Proposed management controls	Even though no recorded Aboriginal Sites are within the area, should any new Aboriginal sites be discovered staff will inform the management team who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	High
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Displacement or destruction of Aboriginal objects or Aboriginal places.	
Criteria	Cultural Impacts: Affects areas where the landscape features indicate the likely presence of Aboriginal objects.		
Potential impacts	There are two named watercourses on the eastern and western periphery of this drilling area, the Bogan River and Box Cowal. No drilling will be conducted within 200m of this river. There is one collar tentatively proposed 110m from Box Cowal which only hosts running water in times of excessive rainfall / flood in the region. There are no other landscape features as listed above.		
Proposed management controls	Even though no recorded Aboriginal Sites are within the area, should any new Aboriginal sites be discovered staff will inform the management team who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Displacement or destruction of Aboriginals objects.	
Criteria	Cultural Impacts: Affects areas subject to native title claims, indigenous land use agreements or joint management arrangements.		
Potential impacts	The proposed drilling area is not within an area where native title may exist. All drilling is proposed on Freehold land and not within parcels of Crown Land. Register of Native Title Claims		
Proposed management controls	Even though no recorded Aboriginal Sites are within the area, should any new Aboriginal sites be discovered staff will inform the management team who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A

How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	N/A	**Ranking of potential significance**	Low
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Cultural Impacts: Impacts on Aboriginal communities or areas subject to land rights claims.		
Potential impacts	There are no recorded aboriginal objects or places within the proposed drilling area as per the AHIMS search conducted. There is one tentatively proposed collar located 110m from the Box Cowal.		
Proposed management controls	Even though no recorded Aboriginal Sites are within the area, should any new Aboriginal sites be discovered staff will inform the management team who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	No	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Cultural Impacts: Impacts on areas or items of high anthropological, archaeological, architectural, cultural, heritage, historical, recreational or scientific value.		
Potential impacts	There are no recorded aboriginal objects or places within the proposed drilling area as per the AHIMS search conducted. AHIMS: No records. There is one tentatively proposed collar located 110m from the Box Cowal. HERITAGE: No records. PROJECT 3km north from Nyngan		
Proposed management controls	Even though no recorded Aboriginal Sites are within the area, should any new Aboriginal sites be discovered staff will inform the management team who will record the information on the AHIMS Mobile APP (which is Heritage NSW preferred method of recording). This site would then be avoided by placing a 30m buffer around it. Any concerns regarding new sites and working in the area will be raised directly with Heritage NSW on 02 9873 8500.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	N/A	**Ranking of potential significance**	Low
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Land Use Impacts: Any major changes in land use, including curtailment of other beneficial land uses.		

Potential impacts	LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. REHABILITATION The drillhole will be backfilled and rehabilitated in accordance with the requirements of the Exploration Code of Practice – Rehabilitation. The top of the hole will be backfilled with surface soil and topsoil. Above ground sumps will be emptied, and contents disposed of at a suitable facility. DISTURBANCE 600sqm for application 3 EDH proposed. ROCCs included.		
Proposed management controls	Return to pre-existing landuse.		
Duration	3-5		
Application ranking	Positive		
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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Transportation Impacts: Substantial impacts on existing transportation systems (road, rail, pedestrian) which alter present patterns of circulation or movement.		
Potential impacts	There will be no significant impact on transportation from a small temporary drilling program		
Proposed management controls	ACCESS Access to proposed drilling locations will be along station tracks and along the edges of paddocks if necessary, in line with relevant landholder specifications. No new tracks are required to be constructed. Equipment will comprise a diamond drilling rig and support vehicles. A light vehicle will also be used by the field technician and geologist.		
Duration	3-5		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Transportation Impacts: Impacts associated with direct or indirect additional traffic.		
Potential impacts	There will be no significant impact on transportation from a small temporary drilling program		
Proposed management controls	ACCESS Access to proposed drilling locations will be along station tracks and along the edges of paddocks if necessary, in line with relevant landholder specifications. No new tracks are required to be constructed. Equipment will comprise a diamond drilling rig and support vehicles. A light vehicle will also be used by the field technician and geologist.		
Duration	3-5		
Application ranking	Positive		

What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Consistency with applicable local strategic planning statements, regional strategic plans or district strategic plans.		
Potential impacts	The drilling area is classified as terrestrial biodiversity under the Bogan LEP 2011. The temporary drilling program is not anticipated to have adverse impacts on the flora and fauna in this area. Map and further information relating to the Bogan area Terrestrial Biodiversity are attached to the APO. Bogan Local Environmental Plan 2011 - NSW Legislation- Condition 7.4 Terrestrial Biodiversity The majority of the drilling area is recorded within the Bogan LEP 2011 as terrestrial biodiversity – of moderate, high sensitivity and also unclassified. The high sensitivity areas align quite well with the lightly wooded/ vegetated areas around the watercourses. The moderate sensitivity and unclassified areas are predominantly the paddocks where proposed drilling will take place. The temporary drilling program is proposed within the paddocks and no vegetation to be damaged, therefore is not anticipated to have adverse impacts on the flora and fauna.		
Proposed management controls	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 prior to APO expiry. 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	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impact on Biodiversity.	
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 27 listed Threatened species, 4 listed Threatened Ecological Communities and 7 Listed Migratory Species. Of the 27 threatened species the Curlew Sandpiper, Swift Parrot, Plains Wanderer and the Silver Perch are considered to be critically endangered (the link in the MNES states the Curlew Sandpiper, Swift Parrot and Plains Wanderer to be endangered and not critical specifically for NSW, and the Silver Perch is recorded as Vulnerable). There are no critically endangered listings in the threatened ecological communities category, all four are classified as endangered; Coolibah, Grey Box, Poplar Box Grassy Woodland and Weeping Myall Woodlands. The 7 listed migratory species has the Curlew Sandpiper listed as critically endangered – however the link to this species differs stating for NSW this is endangered. The temporary proposed drilling activities will be undertaken with due care within cropping and/or grazing paddocks, will not be undertaken in periods of wet ground conditions, do not need to affect any vegetation and as such adverse affects to the flora and fauna are not anticipated. The BioNet Search has listed threatened species in the areas around the proposed drilling location and these should not be adversely impacted with the proposed works. Major Mitchells Cockatoo is listed as vulnerable and protected and was sighted in 2001 with no accurate location details. Note that Black Box woodland wetland on NSW central and northern floodplains including the Darling Riverine Plains Bioregion and Brigalow Belt South Bioregion is listed endangered in MNES and mapped within exploration area proposed.		
Proposed management controls	Agricultural properties that have already been cleared were selected for this drilling program to significantly reduce the risk of impacting threatened ecological communities, threatened species, and threatened migratory species. Vegetation is not to be cleared as part of the program therefore not damaging threatened ecological communities and the habitats of threatened species and threatened migratory species. Crews are instructed to not interact with wildlife or vegetation during the drilling activities.		
Duration	3-5		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impact on Threatened species.	
Criteria	Cumulative Impacts: Cumulative environmental effects with other existing or likely future activities.		
Potential impacts	LANDUSE The land is currently utilised for agricultural grazing purposes. The land use will not be changed during or after the proposed drilling works. Earthworks and vegetation clearance is not required for this drilling program. Sites are relatively flat and open. Drill pad areas, affecting approximately 10 x 20m may require minor clearing of grass from the surface, should this be necessary care will be taken to ensure to leave root stock to enable existing vegetation regrowth. REHABILITATION The drillhole will be backfilled and rehabilitated in accordance with the requirements of the Exploration Code of Practice – Rehabilitation. The top of the hole will be backfilled with surface soil and topsoil. Above ground sumps will be emptied, and contents disposed of at a suitable facility. DISTURBANCE 600sqm for application 3 EDH proposed. ROCCs included.		
Proposed management controls	Return to pre-existing landuse. AIS- level 1 Reviewed by RR on 16/4/2024- No issues detected. "Proposed exploration activities will not impact either agricultural resources or local enterprises with activities expected to take approximately 3-5 weeks to complete (should all 3 holes be drilled)."		
Duration	3-5		
Application ranking	Positive		

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 ranking**	
Do the operations comply with standards, plans, policies?	Yes		

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