

**BEETALOO BASIN KYALLA 117 N2 CIVIL  
CONSTRUCTION AND DRILLING, HYDRAULIC  
FRACTURE STIMULATION AND WELL TESTING  
Annual Environment Performance Report (AEPR)**

**Tamboran B2 Pty Ltd**

## Document Details

<b>Document title</b>	Beetaloo Basin Kyalla 117 N2 Civil Construction and Drilling, Hydraulic Fracture Stimulation and Well Testing Annual Environment Performance Report
<b>EMP(s) covered</b>	Beetaloo Basin Kyalla, Civil Construction EMP (ORI1-1) Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)
<b>Permit area</b>	EP 117
<b>Interest holder details</b>	Tamboran B2 Pty Ltd ABN 42 105 431 525
<b>Operator details</b>	Tamboran Resources Ltd 110-112 The Corso Manly NSW 2095
<b>Approved by</b>	Matt Kernke: Environment and Approvals Manager
<b>Date approved</b>	5 September 2023

## Version History

Rev	Date	Reason for issue	Reviewer	Approver
0	5 September 2023	Issued for Approval	LP	MK

## Signature and certification

I hereby declare that the information provided in this annual environment performance report and accompanying documents is to the best of my/our knowledge, true and correct.

<b>Signature</b>	
<b>Name</b>	Matt Kernke
<b>Position</b>	Environment and Approvals Manager
<b>Date</b>	5 September 2023

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## 1. INTRODUCTION

The Northern Territory (NT) Petroleum (Environment) Regulations 2016 (the Regulations) include a requirement<sup>1</sup> for the interest holder to provide a report to the Minister on an annual basis that outlines the environmental performance of regulated activities. The Annual Environment Performance Report (AEPR) must include sufficient information to allow the Minister to assess whether the interest holder has met the environmental outcomes and environmental performance standards included in the approved Environment Management Plan (EMP). The report is to consider information required to be recorded, monitored or reported under the Regulations and any other law in force in the NT related to conduct of the regulated activity.

This AEPR covers the regulated activities approved under:

- *Beetaloo Basin Kyalla, Civil Construction EMP (ORI1-1)*, approved 6 June 2019, including:
  - Regulation 22 Beetaloo Basin Kyalla, Civil Construction EMP (ORI1-1.1), 11 September 2019: Haul road and helipad increase in surface disturbance 2.10 ha
  - Regulation 22 Beetaloo Basin Kyalla, Civil Construction EMP (ORI1-1.2), 26 September 2019: Fenceline increase in surface disturbance 0.56 ha
  - Regulation 22 Beetaloo Basin Kyalla, Civil Construction EMP (ORI1-1.3), 5 June 2023: Tank pad increase in surface disturbance by 0.25 ha
- *Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)*, approved 13 August 2019

The AEPR covers the following reporting periods:

- *Beetaloo Basin Kyalla, Civil Construction EMP (ORI10.3)*, 7 June 2022 – 6 June 2023
- *Beetaloo Basin Kyalla drilling hydraulic fracture stimulation and well testing program EP117 N2 EMP (ORI3-2)*, 14 August 2022 – 13 August 2023.

### 1.1 Acronyms and abbreviations

**Table 1 Summary of acronyms and abbreviations**

Acronym	Definition
AAPA	Aboriginal Areas Protection Authority
AEPR	Annual Environment Performance Report
Code	Code of Practice: Onshore Petroleum Activities in the Northern Territory
DEPWS	Department of Environment, Parks and Water Security
DITT	Department of Industry, Tourism and Trade
EMP	Environment management plan
ha	hectare
NT	Northern Territory
Regulations	Petroleum (Environment) Regulations 2016

<sup>1</sup> Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11.

## 1.2 Background

The regulated activities that have been assessed under this AEPR are those covered under the *Beetaloo Basin Kyalla, Civil Construction EMP (OR11-1)*, during the reporting period 7 June 2022 – 6 June 2023. Activities performed on the Kyalla 117 N2 site during the period focussed on care and maintenance with no civil construction works being undertaken.

There were no regulated activities completed under the *Beetaloo Basin Kyalla drilling hydraulic fracture stimulation and well testing program EP117 N2 EMP (OR13-2)*, during the reporting period 14 August 2022 – 13 August 2023. The Kyalla N2-1H well was shut-in on 22 February 2020 with ongoing wastewater treatment (evaporation) and storage onsite.

The location of the regulated activities is provided in **Error! Reference source not found..**

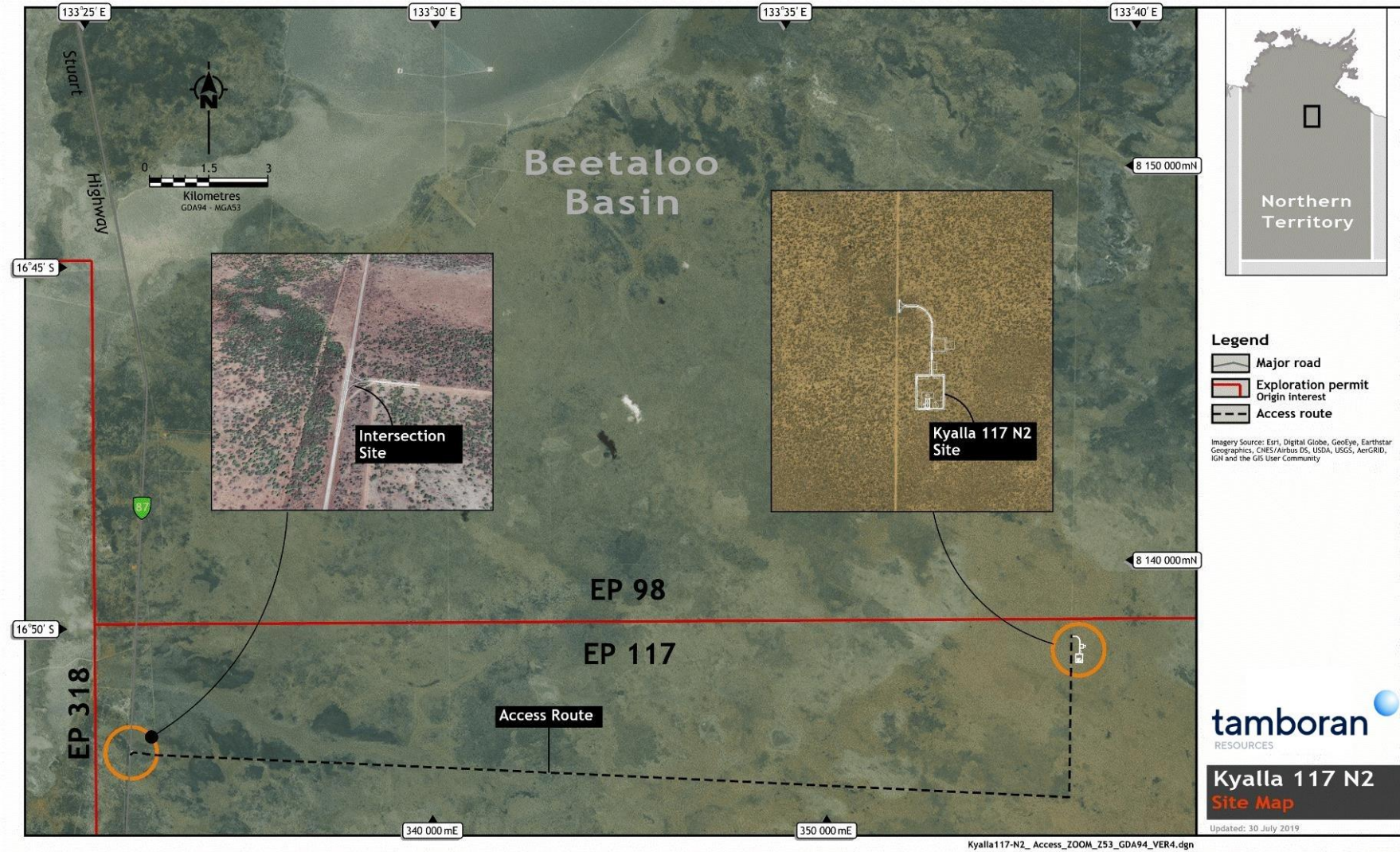


Figure 1 Location of Kyalla 117 N2 site

### 1.3 Contents of performance report

This AEPR describes the environmental performance of the interest holder by evaluation of the following:

1. Compliance with Ministerial approval conditions, for the EMP.
2. Compliance with each environmental outcome and environmental performance standard within the approved EMP.
3. Compliance with reporting requirements in accordance with the Code and Regulations.
4. All recordable and reportable incidents, including root cause analysis and related corrective actions to prevent re-occurrence.
5. Findings of all regulatory inspections and audits and related actions to address any findings.

### 1.4 Assessment of compliance

Table 2 shows the compliance status indicators used in this AEPR which have been defined by the Department of Environment, Parks and Water Security (DEPWS).

**Table 2 Compliance descriptors**

Indicator	Description
Compliant	Compliant with requirement for entire 12-month reporting period
Not Compliant	Interest holder did not comply with the requirement during the reporting period
Not Applicable	Requirement not applicable during the reporting period

### 1.5 Evidence of compliance

The following sources of evidence are used to demonstrate compliance:

1. Internal monitoring of compliance by the interest holder.
2. Outcomes from regulatory inspection(s) conducted by the DEPWS, Petroleum Operations.
3. Recordable and reportable incident reports submitted to DEPWS Petroleum Operations.
4. Reports provided to DEPWS, DITT and other government agencies.

## 2. DEMONSTRATION OF COMPLIANCE

### 2.1 Ministerial condition compliance

Table 3 demonstrates Tamboran's compliance with Ministerial EMP approval conditions.

**Table 3 Ministerial condition summary table**

No	Ministerial condition	Compliance Status	Evidence
<b>Beetaloo Basin Kyalla, Civil Construction EMP (ORI1-1)</b>			
1	The Interest holder must submit to Department of Environment and Natural Resources (DEPWS) a detailed timetable and breakdown of all civils works for the regulated activity prior to commencement of the activity and update the timetable each month.	Compliant	<p>Monthly reports were provided to DEPWS on the following dates:</p> <ul style="list-style-type: none"> <li>• 20 June 2022</li> <li>• 20 July 2022</li> <li>• 19 August 2022</li> <li>• 21 September 2022</li> <li>• 20 October 2022</li> <li>• 24 November 2022</li> <li>• 21 December 2022</li> <li>• 27 January 2023</li> <li>• 20 February 2023</li> <li>• 23 March 2023</li> <li>• 22 April 2023</li> <li>• 22 May 2023</li> <li>• 27 June 2023</li> </ul>
2	<p>The Interest holder must develop in consultation with DEPWS a rehabilitation plan for each disturbed area appropriate to the nature and scale of the activity. At a minimum, the plan should include:</p> <ul style="list-style-type: none"> <li>i. final land use rehabilitation objectives and details of how rehabilitation objectives will be achieved;</li> <li>ii. commitment to stakeholder engagement where relevant;</li> <li>iii. implement progressive rehabilitation, with the borrow pits rehabilitated before the wet season, to avoid depressions, make them self-draining with topsoil and seeding for return of vegetation;</li> <li>iv. continuation of rehabilitation and monitoring for three years after completion of activities or until demonstration that rehabilitation objectives have been met;</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>• Rehabilitation plan developed and submitted to DEPWS on the 17/04/2020 as draft. Final plans submitted and accepted by DEPWS 12/06/2020.</li> </ul>



No	Ministerial condition	Compliance Status	Evidence
	<p>v monitoring and maintenance program for reinstated and rehabilitated areas, including rehabilitation criteria to be met;</p> <p>vi timetable for implementation.</p>		
3	<p>The regulated activity must be undertaken in compliance with relevant requirements of Part A (Surface Activities) of the Code of Practice: Onshore Petroleum Activities in the Northern Territory. These include:</p> <p>i The planning, design, locating and construction of petroleum infrastructure must have regard to the considerations of the Land Clearing Guidelines as published on the DEPWS website and amended from time to time. Specific consideration must be given to the following:</p> <ul style="list-style-type: none"> <li>a. suitability of site (e.g. flooding, sheet flow pathways, soil drainage and slope constraints, proximity to watercourses, dune crossings)</li> <li>b. erosion and sediment controls</li> <li>c. sensitive receptors</li> <li>d. wildlife movement</li> <li>e. biodiversity protection</li> <li>f. water</li> <li>g. weeds and</li> <li>h. cultural heritage.</li> </ul> <p>ii Road and pipeline corridor designs must:</p> <ul style="list-style-type: none"> <li>a. minimise erosion of exposed road surfaces and drains</li> <li>b. ensure that roads and pipeline surface water flow paths minimise erosion of all exposed surfaces and drains</li> <li>c. comply with relevant guidelines such the International Erosion Control</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>a) Site suitability assessment completed as a part of the EMP.</li> <li>b) Erosion and sediment control plan (ESCP) developed, approved by DEPWS on the 31/07/2019 and implemented.</li> <li>c) No sensitive receptors within 20 km of site.</li> <li>d) Site suitability assessment as a part of the EMP considered impacts to wildlife movement.</li> <li>e) Potential impacts to biodiversity covered in site assessment as a part of EMP</li> <li>f) No surface water taken. All groundwater take under approved Water extraction Licence (WEL).</li> <li>g) Routine site inspections completed with chemical weed controls implemented. Annual weed report submitted to DEPWS 17 November 2022. Routine weed inspection of EP 117 was completed by DEPWS on 24 May 2023, with no declared weeds present in any areas inspected, including gravel pits.</li> <li>h) AAPA certificates held for all activities.</li> </ul> <ul style="list-style-type: none"> <li>a) Existing pastoralist access road / track use where possible to mitigate disturbance. ESCP developed and implemented to mitigated erosion risks associated with new access tracks.</li> </ul>

No	Ministerial condition	Compliance Status	Evidence
	<p>Association Best Practice for Erosion and Sediment Control (2008), IECA Appendix P: Land Based Pipeline Construction December · 2015 (Addendum to IECA 2008) and the Australian Pipeline Industry Association Code of Environmental Practice 2017.</p>		<p>b) New access tracks designed with erosion and sediment controls in place to mitigate erosion risk. Work primarily undertaken in the dry with lower erosion risk profile.</p> <p>c) ESCP plan developed, approved by DEPWS and implemented.</p>
iii	<p>The requirements of the Land Clearing Guidelines as published on the DEPWS website and amended from time to time must be complied with in relation to the protection of natural waterways as a result of land disturbance and ensure the following:</p> <ul style="list-style-type: none"> <li>a. appropriate buffers are implemented around natural waterways</li> <li>b. disturbance in the wet season is minimised</li> <li>c. the number of crossing points in minimised</li> <li>d. crossings are constructed as close as practicable to right angles to the waterway</li> <li>e. material changes in the shape of the waterway are avoided</li> <li>f. material changes in the volume, speed or direction of flow or likely flow of water in the waterway are avoided</li> <li>g. alteration to the stability of the bed or banks of the waterway (including by removal of vegetation) is avoided</li> <li>h. erosion risk, sedimentation and pollution of waterways is minimised through the appropriate design and implementation of best practice erosion and sediment control measures</li> </ul>		<p>a) Buffers assessed during site selection within EMP.</p> <p>b) Minimal activity occurred during the 2022/23 wet season, with all major works completed within the dry season (confirmed by monthly activity summary reports provided to DEPWS).</p> <p>c-h) No disturbance was undertaken in waterways / water courses.</p>
iv	<p>Land clearing for corridors, well pads and other operational areas must be kept to a minimum</p>		<p>All areas justified and required to fulfil operational requirements.</p>
v	<p>All infrastructure stream crossings must provide for appropriate fauna passage.</p>		<p>Existing access used with no major waterway crossing present. No major construction undertaken.</p>
vi	<p>Activities that involve wastewater or chemical storage must be carried out according to the wastewater management plan and spill management plan which are</p>		<p>Wastewater and material chemical storage not undertaken under the Kyalla 117 N2 civil construction EMP.</p>

No	Ministerial condition	Compliance Status	Evidence
	<p>part of the EMP (which are further detailed in section C.7 of the Code).</p> <p>vii Progressive rehabilitation of significantly disturbed land which is not required for the ongoing conduct of petroleum activity(ies) or future activities, must commence as soon as practicable, but no longer than 12 months following cessation of activities on the land.</p>		<p>A progressive rehabilitation plan has been developed and submitted to DEPWS on 17/04/2020. Exploration activities are likely to be ongoing over the site for the next 2 years until a decision is made as to the potential decommissioning of the well (subject to operational requirements).</p>
<b>Beetaloo Basin Kyalla drilling, hydraulic fracture stimulation and well testing program EP117 N2 EMP (OR13-2)</b>			
1	<p>The Interest Holder must provide a report to the Department of Environment and Natural Resources (DEPWS) where there is a non-compliance of an approval condition within 48 hours of becoming aware of the non-compliance.</p>	Not applicable	<p>No non-compliances with the EMP identified during the reporting period.</p>
2	<p>The Interest Holder must submit to DEPWS, an updated timetable for the regulated activity prior to the commencement of the activity and provide an updated timetable to DEPWS each month. The timetable must include dates for the implementation of commitments, development of key documents and associated hold points.</p>	Compliant	<p>Monthly reports were provided to DEPWS on the following dates:</p> <ul style="list-style-type: none"> <li>• 20 June 2022</li> <li>• 20 July 2022</li> <li>• 19 August 2022</li> <li>• 21 September 2022</li> <li>• 20 October 2022</li> <li>• 24 November 2022</li> <li>• 21 December 2022</li> <li>• 27 January 2023</li> <li>• 20 February 2023</li> <li>• 23 March 2023</li> <li>• 22 April 2023</li> <li>• 22 May 2023</li> <li>• 27 June 2023</li> </ul>
3	<p>The Interest Holder must provide to DEPWS a cementing report for the steel conductor casing through the aquifers as soon as practicable but not more than seven days after completion of the cementing job for the Kyalla exploration well EP117 N2-1.</p>	Compliant	<p>Cementing report for the steel conductor section submitted to DITT/DEPWS on the 07/11/2019.</p> <p>The final cementing job on the Kyalla 117 N2-1H well was completed 20 February 2020 evidenced by well barrier integrity verification report and daily drilling activity reports submitted to DEPWS.</p>

No	Ministerial condition	Compliance Status	Evidence
4	<p>The Interest Holder must provide to DEPWS:</p> <p>i results of ongoing groundwater monitoring in accordance with the Code of Practice: Onshore Petroleum Activity in the Northern Territory (the Code) and the Preliminary Guideline: Groundwater Monitoring Bores for Exploration Petroleum Wells in the Beetaloo Sub-basin every quarter for three years from the approval date of the EMP for publishing on the DEPWS website, to inform the development of site-specific performance standards for groundwater quality.</p> <p>ii notification of any results in the inter-quartile range of monitored parameters in groundwater above the natural distribution of values that occur at the Kyalla well site within five days of discovery.</p> <p>iii results of monitoring and reporting on the characterisation and analysis of flowback fluid in accordance with the Code, within one month of commencement of flowback for publishing on the DEPWS onshore petroleum webpage.</p>	Compliant	<p>Results of groundwater monitoring have been provided to DEPWS quarterly on:</p> <ul style="list-style-type: none"> <li>• 30 September 2023</li> <li>• 25 January 2023</li> <li>• 13 June 2023</li> </ul> <p>The 13 June 2023 results were for the April 2023 round of monitoring, which marked the end of the 3-year monitoring approval condition.</p> <p>Notification of any interquartile exceedances from impact monitoring bore are included in the reports as directed by DEPWS. This data is provided to DEPWS within 5 days of discovery.</p> <p>Report characterising the flowback fluid provided to DEPWS on the 14/04/2021.</p>
5	<p>The Interest Holder must provide to DEPWS a report on the assessment and leachability testing of drill cuttings and drilling mud including the final disposal options, within three months of completion of the drilling program.</p>	Compliant	<ul style="list-style-type: none"> <li>• Well completed on the 20 February 2020.</li> <li>• Monitoring (laboratory) results of drilling fluid and mud chemistry submitted to DEPWS on the 09/06/2020 and 11/06/2020.</li> <li>• Final report submitted 30/01/2021.</li> </ul>
6	<p>The Interest Holder must develop in consultation with DEPWS a rehabilitation plan for each disturbed areas appropriate to the nature and scale of the activity, in accordance with the requirements in the Code, no later than "3 months after commencement of the activity. The Interest Holder must undertake progressive rehabilitation of the disturbed land in accordance with the plan, to provide an environment similar to original condition and uses.</p>	Compliant	<p>Rehabilitation plan developed and submitted to DEPWS on the 17/04/2020. Final plans submitted and accepted by DEPWS 12/06/2020.</p>

No	Ministerial condition	Compliance Status	Evidence
7	The Interest Holder in addition to standard NGER reporting requirements, must provide to the DEPWS a mass balance of actual greenhouse gas emissions that incorporates flare efficiency and by-pass calculations, including emissions directly vented as methane within six months of completion of well testing activities.	Compliant	A methane emission report was provided to DEPWS 30 September 2021 and 4 April 2022 (in accordance with Ministerial Condition 7). The next annual GHG emissions report is due 30/09/2023.
8	The Interest Holder must provide to DEPWS an analysis of offsite disposal and beneficial use options, other than flaring, for liquid hydrocarbons if the combustion of liquid hydrocarbons at the flare exceeds an average of 5000 litres per day during the first month or following months of flaring.	Not applicable	No liquid condensate was encountered during the reporting period.

## 2.2 Environmental outcomes and performance standards

Table 4 provides a systematic overview of compliance with the environmental outcomes and environmental performance standards within each approved EMP.

**Table 4 Environmental outcome and performance standard compliance summary**

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
<b>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</b>				
1	<ul style="list-style-type: none"> <li>Avoid, minimise and control, soil erosion and discharge of sediment or soil into Outcomes: waterways or established drainage systems</li> <li>Minimise disturbance of soil, vegetation and drainage during site activities</li> <li>Minimise the creation of dust.</li> </ul>	<ul style="list-style-type: none"> <li>Land disturbance is equal to or less than 6.6 ha.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No additional clearing under the EMP undertaken during reporting period.</li> <li>Approved land disturbance amended to 9.51 ha, with additional 2.51 ha of disturbance approved via the following modifications:               <ul style="list-style-type: none"> <li>Haul road and helipad modification 11/09/2019</li> <li>Fence line modification 26/09/2019</li> <li>Tank pad modification 29/06/2023</li> </ul> </li> <li>Actual land clearance of 8.14 ha.</li> <li>GIS surveyed data of disturbance submitted to DEPWS 07/09/2020.</li> </ul>
2		<ul style="list-style-type: none"> <li>No incidences of contamination and erosion and sedimentation that result in material environmental harm.</li> </ul>	Compliant	<p>No incidents of erosion or soil contamination causing environmental harm recorded during the reporting period.</p> <p>Periodic maintenance completed, evidenced through maintenance reports/ action sign offs.</p> <p>Routine assurances completed confirming no material harm caused by erosion or soil contamination observed.</p>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
3	<ul style="list-style-type: none"> <li>Avoid and or minimise and control any potential contamination caused by the discharge of sediment to waterways or established drainage systems.</li> </ul>	<ul style="list-style-type: none"> <li>No use of surface water.</li> </ul>	Compliant	Groundwater extraction bore installed onsite to support civil maintenance activities.
4		<ul style="list-style-type: none"> <li>No release of fuel, oils or sediment into watercourses.</li> </ul>	Compliant	No incidents of fuel, oils or sediment releases to watercourses recorded during the reporting period.
5		<ul style="list-style-type: none"> <li>No spills causing material harm.</li> </ul>	Compliant	No spills causing material environmental harm recorded during the reporting period.
	<ul style="list-style-type: none"> <li>Contain all potential contaminants for treatment or disposal.</li> <li>Minimise the impacts on surface water drainage by preserving drainage system integrity and water quality.</li> <li>Maintain the natural flow regime of the area to avoid pooling or diversion of water away from wetlands</li> </ul>			
6	<ul style="list-style-type: none"> <li>To manage exploration activities to prevent over-extraction of groundwater.</li> <li>Preserve groundwater quantity for potable and stock supplies</li> </ul>	<ul style="list-style-type: none"> <li>No long-lasting change in groundwater levels compared to baseline conditions. Criteria Long lasting defined as &gt;5m standing water level decline over 1 year at the extraction point. Monitoring completed as per Section 4.8.</li> </ul>	Compliant	Groundwater level has remained constant confirmed through quarterly groundwater monitoring. Groundwater volume usage is reported directly to Water Resources at least monthly via WALAPS.
7		<ul style="list-style-type: none"> <li>Groundwater take less than the approved 20ML.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Kyalla total site water take was minimal, with approximately 2.98 ML usage (Aug 2022 – Jul 2023).</li> <li>Groundwater volume usage is reported directly to Water Resources at least monthly via WALAPS.</li> </ul>
8	<ul style="list-style-type: none"> <li>Minimise disturbance to flora and fauna.</li> </ul>	<ul style="list-style-type: none"> <li>Vegetation clearing &lt;6.6 ha.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No additional clearing under the EMP undertaken during reporting period.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
	<ul style="list-style-type: none"> <li>Minimise disturbance to sensitive areas.</li> </ul>			<ul style="list-style-type: none"> <li>Approved land disturbance amended to 9.51 ha, with additional 2.51 ha of disturbance approved via the following modifications:               <ul style="list-style-type: none"> <li>Haul road and helipad modification 11/09/2019</li> <li>Fence line modification 26/09/2019</li> <li>Tank pad modification 29/06/2023</li> </ul> </li> <li>Actual land clearance of 8.14 ha.</li> </ul> <p>GIS surveyed data of disturbance submitted to DEPWS 07/09/2020.</p>
9		<ul style="list-style-type: none"> <li>No native fauna impacts (injury or fatality) reported in OCIS during civil and drilling and stimulation related activities.</li> </ul>	Compliant	No native fauna impacts reported associated with civil construction activities during the reporting period.
10	<ul style="list-style-type: none"> <li>Avoid the introduction of weeds.</li> <li>Avoid the spread of existing weeds.</li> </ul>	<ul style="list-style-type: none"> <li>No introduction or spread of declared weeds resulting from [Tamboran's] activities.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Routine site inspections completed with chemical weed controls implemented.</li> <li>Annual weed report submitted to DEPWS 17 November 2022.</li> <li>Routine weed inspection of EP 117 was completed by DEPWS on 24 May 2023, with no declared weeds present in any areas inspected, including gravel pits.</li> </ul>
11	<ul style="list-style-type: none"> <li>Minimise impacts on soil, surface water, groundwater, sensitive habitat and air Outcomes quality.</li> </ul>	<ul style="list-style-type: none"> <li>Waste registers maintained for the duration of the project.</li> </ul>	Compliant	Waste data provided by contractors as a part of their monthly HSE reporting. Limited waste generated as civils work is restricted to maintenance.
12	<ul style="list-style-type: none"> <li>Minimise creation of food sources or habitat for pest species.</li> </ul>	<ul style="list-style-type: none"> <li>Waste transport certificates available for all wastes generated.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No listed waste generated from maintenance</li> <li>All listed waste stored in enclosed tanks. .</li> <li>Evidence of landfill receipts retained by contractor.</li> </ul>



#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
	<ul style="list-style-type: none"> <li>Minimise waste generation through reduce, reuse, recycle programs.</li> </ul>			
13	<ul style="list-style-type: none"> <li>Minimise environmental nuisance at sensitive receptors.</li> <li>Minimise greenhouse gas emissions.</li> </ul>	<ul style="list-style-type: none"> <li>No complaints received for dust/air quality nuisance.</li> </ul>	Compliant	No complaints received during civil construction activities, as evidenced by no incidents recorded during the reporting period.
14		<ul style="list-style-type: none"> <li>All complaints responded to and closed out.</li> </ul>	Not applicable	No complaints recorded during the reporting period.
15	<ul style="list-style-type: none"> <li>Manage activities in accordance with occupational health and safety guidelines for Outcomes noise, vibration and light exposure</li> <li>Minimise nuisance noise and vibration impacts on surrounding communities or exploration workers</li> </ul>	<ul style="list-style-type: none"> <li>No valid nuisance-related complaints received from local communities/pastoralists.</li> <li>All complaints responded to and, where appropriate, corrective action taken.</li> </ul>	Not applicable	No valid complaints from pastoralists or community members recorded during the reporting period.
16	<ul style="list-style-type: none"> <li>Minimise disruption to fauna and stock.</li> </ul>	<ul style="list-style-type: none"> <li>Amicable resolution of complaints.</li> </ul>	Not applicable	Not pastoralist complaints recorded during the activity or during the reporting period.
17	<ul style="list-style-type: none"> <li>Minimise the risk of causing bushfires from [Tamboran's] activities. Outcomes</li> <li>Minimise impacts on environmental habitat and fauna, soil erosion, impacts on stakeholders, impacts on culturally significant sites, public infrastructure and community lands.</li> <li>Ensure proper health and safety plan for activities.</li> </ul>	<ul style="list-style-type: none"> <li>No (0) uncontrolled fires occurring as a result of civil works.</li> </ul>	Compliant	No bushfires recorded during civil maintenance activities during the reporting period. Annual fire frequency report submitted 30 September 2022.

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
	<ul style="list-style-type: none"> <li>Prevent accidental fire risk and ensure safe storage of chemicals to prevent fire damage.</li> <li>Minimise the risk of causing bushfires from [Tamboran's] activities. Outcomes</li> <li>Minimise impacts on environmental habitat and fauna, soil erosion, impacts on stakeholders, impacts on culturally significant sites, public infrastructure and community lands.</li> <li>Ensure proper health and safety plan for activities.</li> <li>Prevent accidental fire risk and ensure safe storage of chemicals to prevent fire damage.</li> </ul>			
18	<ul style="list-style-type: none"> <li>Avoid disturbance or damage to Aboriginal cultural heritage artefacts or sacred Outcomes sites.</li> <li>Minimise impacts and disruption to activities of Indigenous stakeholders in culturally significant areas.</li> <li>Ensure adequate background information and training is provided to employees and contractors working in culturally significant areas.</li> </ul>	<ul style="list-style-type: none"> <li>No (0) unauthorised activities within or access to a Restricted Work Area.</li> </ul>	Compliant	No unauthorised access to AAPA restricted areas recorded during the reporting period.

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
	<ul style="list-style-type: none"> <li>Ensure that the health and safety of employees, contractors and the community is not compromised through management of cultural and environmental awareness.</li> </ul>			
19	<ul style="list-style-type: none"> <li>Minimise impacts on the local community and services.</li> </ul>	<ul style="list-style-type: none"> <li>Local (NT) employment used for &gt;90% for the civil campaign.</li> </ul>	Compliant	Civil maintenance activities completed by a local NT business (Arnhem Earth Moving).
20	<ul style="list-style-type: none"> <li>Minimise safety risks to the public and other third parties.</li> </ul>	<ul style="list-style-type: none"> <li>All complaints are responded to and closed out.</li> </ul>	Not applicable	No complaints received during the reporting period.
21	<ul style="list-style-type: none"> <li>Maintain and enhance partnerships with the local community, including using local contractors and maximising opportunities for local employment and training.</li> </ul>	<ul style="list-style-type: none"> <li>Local (NT) employment used for &gt;90% for the civil campaign.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>100% of civil maintenance activities completed by a local NT business (Arnhem Earth Moving).</li> <li>Inspections and waste management completed by local Elliot business- Triple P and local Katherine business Konan Contracting.</li> </ul>
<b>Beetaloo Basin Kyalla 117 Drilling, Stimulation and Well Testing Program EMP (ORI3-2)</b>				
1	<ul style="list-style-type: none"> <li>Avoid, minimise and control soil erosion and discharge of sediment or soil into waterways or established drainage systems.</li> <li>Minimise disturbance of soil, vegetation and drainage during site activities.</li> </ul>	<ul style="list-style-type: none"> <li>No vegetation clearing to be undertaken under EMP.</li> </ul>	Compliant	<p>No additional clearing has been undertaken to date, or as evidenced through GIS data submitted to DEPWS on the 07/09/2020.</p> <p>Clearing under the Regulation 22 dated 29/06/2023 for the tank pad (0.25 ha) has not been completed.</p>
2	<ul style="list-style-type: none"> <li>Minimise the creation of dust.</li> <li>Prevent the contamination of soil to maintain the viability of soil resources.</li> </ul>	<ul style="list-style-type: none"> <li>No incidence of erosion and sedimentation causing material environmental harm.</li> </ul>	Compliant	<p>No incidents of erosion and sediment control causing material environmental harm identified or recorded during the reporting period.</p> <p>Observation data available identifying maintenance required for minor erosion works.</p>
3		<ul style="list-style-type: none"> <li>Areas left safe, stable and non-polluting.</li> </ul>	Compliant	Area is currently operational, with no material incidents of erosion identified.

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
4		<ul style="list-style-type: none"> <li>No spills of chemicals or wastewater that have resulted in material environmental harm.</li> </ul>	Compliant	No spills of chemicals or wastewater resulting in material environmental harm occurred during the reporting period.
5		<ul style="list-style-type: none"> <li>Return disturbed areas to a stable condition such that they are returned to a condition as close as practicable to the surrounding area (or pre-disturbance state) within an acceptable time frame.</li> </ul>	Not applicable	Rehabilitation activities have not commenced. Site remains operational.
6	<ul style="list-style-type: none"> <li>Avoid and minimise the potential contamination caused by the discharge of sediment or contaminated storm water to waterways or established drainage systems.</li> <li>Contain any potential contaminants for treatment or disposal.</li> </ul>	<ul style="list-style-type: none"> <li>No use of surface water</li> </ul>	Compliant	No use of surface water as no watering points located within the vicinity (~20km) of the site.
7		<ul style="list-style-type: none"> <li>No release of drilling and stimulation wastewater to watercourses or areas surrounding the lease pad.</li> </ul>	Compliant	No offsite releases of drilling and stimulation wastewater recorded during the reporting period.
8		<ul style="list-style-type: none"> <li>No spills or releases of sediment to watercourses causing material environmental harm.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No spills or releases of sediment to water courses causing environmental harm recorded during the reporting period.</li> <li>Routine site inspections completed.</li> </ul>
9	<ul style="list-style-type: none"> <li>To manage exploration activities to prevent over-extraction of groundwater.</li> <li>Preserve groundwater quantity for livestock supplies (the surrounding water use).</li> </ul>	<ul style="list-style-type: none"> <li>Groundwater take less than maximum permitted volume of 38ML for the activity.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Kyalla total site water take was minimal, with approximately 2.98 ML usage (Aug 2022 – Jul 2023).</li> <li>Groundwater volume usage is reported directly to Water Resources at least monthly via WALAPS.</li> </ul>
10		<ul style="list-style-type: none"> <li>No material impairment of any surrounding pastoralist extraction bores associated with</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Groundwater monitoring has not detected any significant drawdown within the Gum Ridge extraction bore RN41132. The lack of drawdown at</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
		[Tamboran's] activities. Impairment is defined as a 1m drawdown in the static water level of the bore attributable to [Tamboran's] activities.		<p>the extraction point confirms no impact to the closest pastoralist bore which is 16km from the site.</p> <ul style="list-style-type: none"> <li>Groundwater monitoring data provided to DEPWS on: <ul style="list-style-type: none"> <li>30 September 2023</li> <li>25 January 2023</li> <li>13 June 2023</li> </ul> </li> <li>The 13 June 2023 results were for the April 2023 round of monitoring, which marked the end of the 3-year monitoring approval condition.</li> </ul>
11		<ul style="list-style-type: none"> <li>No material change in quality attributed to [Tamboran's] stimulation activities at the surrounding impact monitoring bore. Material change is defined as a (&gt;1 year) reduction of groundwater quality exceeding the ANZECC Guidelines for Livestock use.</li> </ul>	Compliant	Groundwater monitoring has not detected any statistically significant changes in water chemistry associated with hydraulic fracturing activities.
12		<ul style="list-style-type: none"> <li>For each cemented section, visual confirmation during cementation job for indications of cement at surface.</li> </ul>	Compliant	Well bore integrity verification (WBIV) report submitted to DITT on 02/07/2020 demonstrating compliance. WBIV includes data on visual cement returns to surface.
13		<ul style="list-style-type: none"> <li>Cement evaluation log is conducted to verify that a minimum of 150m of good</li> </ul>	Compliant	Well bore integrity verification (WBIV) report submitted to DITT on 02/07/2020 demonstrating compliance.

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
		cement is in place above the target reservoir as per WOMP.		
14		<ul style="list-style-type: none"> <li>Casing integrity for top hole/intermediate hole sections are positively verified with a pressure test on plug bump as per WOMP.</li> </ul>	Compliant	Well bore integrity verification (WBIV) report submitted to DITT on 02/07/2020 demonstrating compliance.
15		<ul style="list-style-type: none"> <li>All well acceptance criteria relating to aquifer protection achieved.</li> </ul>	Compliant	Well bore integrity verification (WBIV) report submitted to DITT on 02/07/2020 demonstrating compliance.
16		<ul style="list-style-type: none"> <li>Maximum allowable Pumping Pressure (MAPP) &lt; design limit of 9,200psi.</li> </ul>	Compliant	Pressure monitoring during stimulation confirms MAPP<9,200psi
17	<ul style="list-style-type: none"> <li>Minimise additional disturbance to flora and fauna.</li> <li>No disturbance to high conservation areas.</li> </ul>	<ul style="list-style-type: none"> <li>No unauthorised clearing of vegetation.</li> </ul>	Compliant	<p>No additional clearing was undertaken in the reporting period as evidenced through GIS data submitted to DEPWS on the 07/09/2020.</p> <p><b>Note:</b> Clearing (0.25 ha) under the Regulation 22 against ORI1-1, dated 29/06/2023 for the tank pad has not been completed.</p>
18		<ul style="list-style-type: none"> <li>No native flora or fauna impacts due to wastewater or chemical exposure.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No fauna deaths have been detected through routine wildlife monitoring.</li> <li>Wildlife monitoring data collected for the period. A final wildlife monitoring report 2019 – 2022 was submitted to DEPWS on 28 September 2022.</li> </ul>
19		<ul style="list-style-type: none"> <li>No impacts to endangered birds.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No endangered or threatened bird mortalities identified during routine monitoring</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
				<ul style="list-style-type: none"> <li>Fauna registered maintained tracking fauna interactions with wastewater storages.</li> </ul> <p>Evidence of daily checks included in daily activity reports submitted to DEPWS, where applicable.</p>
20	<ul style="list-style-type: none"> <li>Avoid the introduction of weeds.</li> <li>Avoid the spread of existing weeds.</li> </ul>	<ul style="list-style-type: none"> <li>No introduction or spread of declared weeds resulting from [Tamboran's] activities.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Routine site inspections completed with chemical weed controls implemented.</li> <li>Annual weed report submitted to DEPWS 17 November 2022.</li> <li>Routine weed inspection of EP 117 was completed by DEPWS on 24 May 2023, with no declared weeds present in any areas inspected, including gravel pits.</li> </ul>
21		<ul style="list-style-type: none"> <li>Six-monthly weed inspections completed on all activity areas- including camp and drill pads, access tracks, borrow pits.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Routine site inspections completed with chemical weed controls implemented.</li> <li>Annual weed report submitted to DEPWS 17 November 2022.</li> <li>Routine weed inspection of EP 117 was completed by DEPWS on 24 May 2023, with no declared weeds present in any areas inspected, including gravel pits.</li> </ul>
22	<ul style="list-style-type: none"> <li>Minimise impacts on soil, surface water, groundwater, sensitive habitat and air quality.</li> <li>Minimise creation of food sources or habitat for pest species.</li> </ul>	<ul style="list-style-type: none"> <li>All waste volumes tracked whilst on-site and in transport.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Waste data reported in monthly HSE report from contractors to the interest holder.</li> <li>All wastewater is tracked, with total volumes onsite provided to DEPWS weekly.</li> <li>No offsite transportation of wastewater has occurred.</li> </ul>
23	<ul style="list-style-type: none"> <li>Minimise waste generation through reduce, reuse, recycle programs.</li> </ul>	<ul style="list-style-type: none"> <li>Waste transport certificates available for all wastes generated.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No offsite transportation of wastewater has occurred.</li> <li>Wastewater transport certificates retained for offsite listed waste (predominantly waste oil, liners, contaminated soil etc.).</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
				<ul style="list-style-type: none"> <li>Waste disposal dockets retained by contractors for non-listed waste disposal.</li> </ul>
24		<ul style="list-style-type: none"> <li>No off-site releases of wastewater or waste products.</li> </ul>	Compliant	No spills of chemicals or wastewater resulting in material environmental harm occurred during the reporting period.
25	<ul style="list-style-type: none"> <li>Minimise environmental nuisance at sensitive receptors.</li> <li>Minimise greenhouse gas emissions.</li> </ul>	<ul style="list-style-type: none"> <li>No valid complaints regarding dust / air quality resulting from [Tamboran's] activities.</li> </ul>	Compliant	No valid complaints recorded during the reporting period, associated with Kyalla 117 N2 activities.
26		<ul style="list-style-type: none"> <li>All complaints responded to and, where appropriate, corrective action taken.</li> </ul>	Not applicable	No valid complaints received during the reporting period.
27	<ul style="list-style-type: none"> <li>Manage activities in accordance with occupational health and safety guidelines for noise, vibration and light exposure.</li> </ul>	<ul style="list-style-type: none"> <li>No valid nuisance-related complaints received from sensitive receptors.</li> </ul>	Not applicable	No valid complaints recorded during the reporting period, associated with Kyalla 117 N2 activities.
28	<ul style="list-style-type: none"> <li>Minimise nuisance noise and vibration impacts on surrounding communities or exploration workers.</li> <li>Minimise disruption to fauna and stock.</li> </ul>	<ul style="list-style-type: none"> <li>All complaints responded to and, where appropriate, corrective action taken.</li> </ul>	Not applicable	No valid complaints received during the reporting period.
29	<ul style="list-style-type: none"> <li>Minimise the risk of causing bushfires from [Tamboran's] activities.</li> <li>Minimise impacts on environmental habitat and fauna, impacts on stakeholders, impacts on culturally-</li> </ul>	<ul style="list-style-type: none"> <li>No uncontrolled fires occurring as a result of exploration works.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Bushfire management plan implemented.</li> <li>No bushfires recorded during civil maintenance activities during the reporting period.</li> <li>Annual fire frequency report submitted 30 September 2022.</li> </ul>



#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
	<p>significant sites, public infrastructure and community lands.</p> <ul style="list-style-type: none"> <li>• Ensure proper health and safety plan for activities.</li> <li>• Prevent accidental fire risk and ensure safe storage of chemicals to prevent fire damage.</li> </ul>			
30	<ul style="list-style-type: none"> <li>• Avoid disturbance or damage to Aboriginal cultural heritage artefacts or sacred sites.</li> </ul>	<ul style="list-style-type: none"> <li>• No unauthorised activities within or access to a Restricted Work Area.</li> </ul>	Compliant	No unauthorised access to AAPA restricted areas recorded during the reporting period.
31	<ul style="list-style-type: none"> <li>• Minimise impacts and disruption to activities of Indigenous stakeholders in culturally-significant areas.</li> <li>• Ensure adequate background information and training is provided to employees and contractors working in culturally-significant areas.</li> <li>• Ensure that the health and safety of employees, contractors and the community is not compromised through management of cultural and environmental awareness.</li> </ul>	<ul style="list-style-type: none"> <li>• No non-compliances with AAPA certificate conditions.</li> </ul>	Compliant	No non-compliance with AAPA certificate conditions recorded during the reporting period.
32	<ul style="list-style-type: none"> <li>• Minimise impacts on the local community and services.</li> <li>• Minimise safety risks to the public and other third-parties.</li> </ul>	<ul style="list-style-type: none"> <li>• All complaints are responded to and closed out.</li> </ul>	Not applicable	No complaints recorded during the reporting period, associated with Kyalla 117 N2 activities.

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
	<ul style="list-style-type: none"> <li>Maintain and enhance partnerships with the local community, including using local contractors and maximising opportunities for local employment and training.</li> </ul>			

## 2.3 Mandatory reporting requirements

Table 5 demonstrates compliance with reporting requirements in the Code and interest holder’s compliance with reporting requirements under the Regulations, schedule 1, item 11(2) – i.e. that all information to be recorded, monitored or reported has been provided. Where relevant, Tamboran has also confirmed that all records, monitoring or required reporting under the Regulations<sup>2</sup> has been provided to DEPWS or the relevant NTG agency.

**Table 5 Summary of mandatory reporting requirements**

#	Reference	Requirement	Compliance Status	Evidence
1	Code A.3.5	Geospatial information depicting areas cleared is to be provided to the Minister.	Compliant	<ul style="list-style-type: none"> <li>GIS surveyed data of disturbance submitted to DEPWS 07/09/2020, remains current. <b>Note:</b> Clearing (0.25 ha) under the Regulation 22 against ORI1-1, dated 29/06/2023 for the tank pad has not been completed.</li> <li>Not applicable to the <i>Beetaloo Basin Kyalla drilling hydraulic fracture stimulation and well testing program EP117 N2 EMP (ORI3-2)</i>.</li> </ul>
2	Code A.3.6 (b)	Weed management plan developed as part of the EMP must provide for ongoing weed monitoring.	Compliant	<ul style="list-style-type: none"> <li>Routine site inspections completed with chemical weed controls implemented.</li> <li>Annual weed report submitted to DEPWS 17 November 2022.</li> <li>Routine weed inspection of EP 117 was completed by DEPWS on 24 May 2023, with no declared weeds present in any areas inspected, including gravel pits.</li> </ul>
3	Code A.3.7(a)vi	The fire management plan developed as part of the EMP must provide for annual fire mapping to monitor changes to fire frequency in the relevant areas.	Compliant	<ul style="list-style-type: none"> <li>Bushfire management plan implemented.</li> <li>No bushfires recorded during civil maintenance activities during the reporting period.</li> <li>Annual fire frequency report submitted 30 September 2022.</li> </ul>
4	Code A.3.9(c) Code A.3.9(e)	The rehabilitation plan developed as part of the EMP requires progressive rehabilitation of	Compliant	<ul style="list-style-type: none"> <li>Rehabilitation management plan developed and submitted to DEPWS 17/04/2020</li> </ul>

<sup>2</sup> Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11(2).

#	Reference	Requirement	Compliance Status	Evidence
		significantly disturbed land which is required to commence no longer than 12 months following the cessation of activities on the land. It also requires regular maintenance and annual monitoring of rehabilitated areas.		<ul style="list-style-type: none"> <li>The rehabilitation requirements are not applicable as all sites remain operational, with rehabilitation activities not undertaken to date.</li> </ul>
5	Code B.4.13.2(c)	<p>As a minimum, the following must be recorded and reported for each stage (where a stage in this context means all fluids pumped at a particular depth interval):</p> <ul style="list-style-type: none"> <li>total volume of hydraulic fracturing fluid pumped,</li> <li>quality of water used (tested for analytes in section C.8 of this Code. Analyses do not need to be repeated if the same water source is used for multiple stages) and typical and maximum concentrations of chemicals or other substances used.</li> </ul>	Not applicable	No hydraulic fracture stimulation was completed during the reporting period.
6	Code B.4.13.2(k)iv	Where venting is the only technically feasible option for managing produced gas, the technical considerations preventing the use of the recovered gas must be recorded	Compliant	<ul style="list-style-type: none"> <li><i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li><i>Beetaloo Basin Kyalla drilling hydraulic fracture stimulation and well testing program EP117 N2 EMP (ORI3-2)</i>: A methane emission report was provided to DEPWS 30 September 2022. The next report is due 30 September 2023.</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
		and included in the operator's annual report.		The 2022 – 23 emissions management report will be submitted by 30 September 2023.
7	Code B.4.14.2(c)	All new barriers or new well operating envelopes must be verified and clearly documented and reported by submission of an updated well barrier integrity validation (WBIV) report to DPIR.	Compliant	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li>• <i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: Well Barrier Integrity Verification report submitted to DITT on 02/07/2020 demonstrating compliance.</li> </ul>
8	Code B.4.15.2(j)	Complete and accurate records of the entire decommissioning procedure must be kept, with these records submitted as part of the legislative reporting requirements for the decommissioning of petroleum wells.	Not applicable	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li>• <i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: Not applicable as decommissioning activities have not commenced.</li> </ul>
9	Code B.4.17.2(d)	Any guidelines published by the Northern Territory Government from time to time relating to reporting and data submission, and groundwater monitoring data standards must be followed.	Compliant	<ul style="list-style-type: none"> <li>• All water monitoring bore completion reports have been submitted to DEPWS, including initial water quality data post completion.</li> <li>• Groundwater monitoring has been completed in accordance with the <i>Preliminary guidelines for groundwater monitoring bore for exploration petroleum wells in the Beetaloo sub-basin</i>.</li> <li>• Groundwater monitoring data provided to DEPWS on: <ul style="list-style-type: none"> <li>○ 30 September 2023</li> <li>○ 25 January 2023</li> <li>○ 13 June 2023</li> </ul> </li> <li>• The 13 June 2023 results were for the April 2023 round of monitoring, which marked the end of the 3-year monitoring approval condition.</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
10	Code C.3(e)	The components of the wastewater management framework, include: Monitor, manage and report in accordance with the Wastewater Management Plan and Spill Management Plan.	Compliant	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li>• <i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: Monitoring requirements of wastewater management plan implemented with routine inspections on wastewater tanks, secondary containment and wastewater storage levels and volumes onsite. Evidenced through daily operational reports, wastewater balance sheets and weekly site inspection checklists.</li> </ul>
11	Code C.6.1(d)	Wastewater tracking documentation must be reported to the Minister at least annually in accordance with the framework provided in the EMP.	Compliant	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li>• <i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: All wastewater is tracked, with total volumes onsite reported to DEPWS weekly. No offsite transportation of wastewater has occurred.</li> </ul>
12	Code C.7.1(d)ii	Wastewater Management Plan must include a program for monitoring and reporting against the effectiveness of the measures for the mitigation of interaction with wildlife, stock and human receptors with wastewater.	Compliant	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 civil construction EMP(ORI1-1)</i>: Not applicable.</li> <li>• Waste management plan includes a monitoring program to detect impacts from wastewater storages on fauna and human receptors.</li> <li>• No material impacts to flora and fauna have been detected through routine wildlife monitoring.</li> <li>• A final wildlife monitoring report 2019 – 2022 was submitted to DEPWS on 28 September 2022.</li> </ul>
13	Code D.4.3.2(f)	A written report detailing the levels of methane measured, the duration of the unusual readings and the results of the investigation (including remedial actions) must be submitted within one month of the significantly higher-level methane event being detected.	Not applicable	This condition is associated with a larger field development program.

#	Reference	Requirement	Compliance Status	Evidence
14	Code D.5.9.2(c)	Emissions from exploration, well construction (including during flowback) and workovers must be measured and reports submitted.	Compliant	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li>• Flaring and venting was metered / estimated during well testing activities.</li> <li>• The Annual Emissions Management Report for the period 1 July 2022 to 30 June 2023 (referred to as FY 23), will be submitted by 30 September 2023.</li> </ul>
15	Code D.5.9.3(a)	Where natural gas is vented or flared at a gas processing or other downstream facility, emissions must be estimated and reported.	Compliant	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li>• The Annual Emissions Management Report for the period 1 July 2022 to 30 June 2023 (referred to as FY 23), will be submitted by 30 September 2023.</li> </ul>
16	Code D.6.2(a)	Reports of baseline assessments must be submitted at the conclusion of each field campaign.	Not applicable	CSIRO completed baseline assessments through DITT.
17	Code D.6.2(b)	Emissions reporting must be in accordance with Section D.5.6. Emissions associated with venting and flaring as described in Section D.5.9 must be provided separately to the Northern Territory Government in accordance with this Code.	Compliant	<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li>• Emission reporting will be provided on or before the 30 September 2023.</li> </ul>
18	Regulations Reg 14	A current EMP remains in force until the interest holder notifies the Minister the activity is no longer being carried out and all of the environmental outcomes and obligations under the plan have been met, and the Minister advises the interest holder the	Compliant	Both EMPs are still in force and has approximately 1 year remaining before the next review.

#	Reference	Requirement	Compliance Status	Evidence
		notice is accepted and the plan ceases to be in force.		
19	Regulations Reg 33	DEPWS is notified of reportable incidents within 2 hours of the interest holder becoming aware of the incident, or within 2 hours of the incident occurring.  A written report must be provided within 24 hours if the initial report was made orally.	Compliant	No reportable incidents have been recorded.
20	Regulations Reg 34	Reports on reportable incidents are to be provided to DEPWS as soon as practicable and within 72 hours of the event occurring.  A final report must be provided to DEPWS within 30 days after remediation/clean-up of the affected area.	Compliant	No reportable incidents have been recorded.
21	Regulations Reg 35	A written report of all recordable incidents must be provided to DEPWS not later than 15 days after the 90-day reporting period (unless otherwise agreed).	Compliant	<ul style="list-style-type: none"> <li>• Quarterly recordable incidents reports were provided as follows:               <ul style="list-style-type: none"> <li>• Q[2] 2022 report provided 14/07/2022</li> <li>• Q3 2022 report provided 10/10/2022</li> <li>• Q4 2022 report provided 16/01/2023</li> <li>• Q1 2023 report provided 13/04/2023</li> <li>• Q2 2023 report provided 14/07/2023</li> </ul> </li> <li>• There were no recordable incidents during the reporting period for the <i>Beetaloo Basin 117 N2 Civil Construction EMP (ORI1-1)</i>.</li> </ul>



#	Reference	Requirement	Compliance Status	Evidence
				<ul style="list-style-type: none"> <li><i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: One recordable incident occurred on 07 June 2023, resulting in ~800 L of flowback fluid spilling to the hardstand due to a compromised tank liner. The contaminated material was cleaned up and stored in the bunding awaiting disposal. The contaminated material did not infiltrate the environment.</li> </ul>
22	Regulations Reg 37A	A report about flowback fluid from hydraulic fracturing must be provided to the Minister within 6 months of the flowback occurring.	Compliant	<ul style="list-style-type: none"> <li><i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li><i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: Flowback report provided to DEPWs on the 14/04/21.</li> </ul>
23	Regulations Reg 37B	A report about produced water from hydraulic fracturing must be provided to the Minister within 6 months of the produced water being extracted.	Compliant	<ul style="list-style-type: none"> <li><i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i>: Not applicable.</li> <li><i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: Flowback report provided to DEPWs on the 14/04/21.</li> </ul>
24	Regulations Schedule 1, item 9(2)	Interest holders are required to conduct future engagement with stakeholders, in accordance with the description in the EMP.	Compliant	<ul style="list-style-type: none"> <li>Land access agreements are in place covering all current and future activities.</li> <li>Stakeholder engagement with immediately affected parties is ongoing, with the frequency of the engagement dependent on the level of activity being completed onsite at a given point of time.</li> </ul>
25	Regulations Schedule 1, item 12	Interest holder must notify the Minister, occupier of the land and owner of the land on which the activity is to be carried out before commencement of activity.	Compliant	<ul style="list-style-type: none"> <li>Persons were notified as follows:               <ul style="list-style-type: none"> <li>Minister – 11/07/2019</li> <li>Pastoralist- Hayfield - 11/07/2019- Via email and telephone</li> </ul> </li> <li><i>Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (ORI1-1)</i> activities commenced 12/07/2019.</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
				<ul style="list-style-type: none"> <li>• <i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i> activities commenced 08/10/2019.</li> </ul>
26	Environment Protection Act 2019 (NT) div 8	Duty to notify the NT EPA as soon as practicable but within 24 hours of any incident which occurs which causes or threatens to cause material or significant environmental harm.	Compliant	<ul style="list-style-type: none"> <li>• No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period under either of the EMPs covered by this AEPR.</li> <li>• <i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: One recordable incident occurred on 07 June 2023, resulting in ~800 L of flowback fluid spilling to the hardstand due to a compromised tank liner. The contaminated material was cleaning up and stored in the bunding awaiting disposal. The contaminated material did not infiltrate the environment.</li> </ul>
27	Waste Management and Pollution Control Act 1998 (NT) s 14	Duty to notify the NT EPA as soon as practicable but within 24 hours of any incident which occurs which causes or threatens to cause pollution resulting in material or significant environmental harm.	Compliant	<ul style="list-style-type: none"> <li>• No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period under either of the EMPs covered by this AEPR.</li> <li>• <i>Beetaloo Basin Kyalla Drilling Hydraulic Fracture Stimulation and Well Testing Program EP117 N2 EMP (ORI3-2)</i>: One recordable incident occurred on 07 June 2023, resulting in ~800 L of flowback fluid spilling to the hardstand due to a compromised tank liner. The contaminated material was cleaning up and stored in the bunding awaiting disposal. The contaminated material did not infiltrate the environment.</li> </ul>

### 3. SUMMARY OF COMPLIANCE

#### 3.1 Overview of compliance

Table 6 and Table 7 provide a summary of the results of the compliance assessment against each EMP.

**Table 6 Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (OR11-1) compliance summary**

Compliance Indicator	Number	Percentage
Compliant	34	100%
Not Compliant	0	0%
Not Applicable	18	N/A

**Table 7 Beetaloo Basin Kyalla 117 N2 Drilling, Hydraulic Fracture Stimulation and Well Testing Program EMP (OR13-2) compliance summary**

Compliance Indicator	Number	Percentage
Compliant	56	100%
Not Compliant	0	0%
Not Applicable	12	N/A

#### 3.2 Overview of items found not compliant

The following sections describe:

- the specific compliance requirements not met for the reporting period
- an analysis of the possible potential environmental harm or impact to environmental values resulting from non-compliance, using multiple lines of evidence
- a summary of the corrective actions already implemented, and further actions still required, as applicable, to ensure compliance is fully achieved in the future.

##### 3.2.1 Ministerial approval conditions

###### 3.2.1.1 Description

No non-compliances with Ministerial conditions were observed during the reporting period.

##### 3.2.2 Environmental performance standards

###### 3.2.2.1 Description

No non-compliance with an environmental performance standard was recorded during the reporting period.

### 3.2.3 Regulatory reporting

#### 3.2.3.1 Description

No non-compliance with regulatory reporting requirements were recorded during the period.

### 3.3 Application of Lessons Learned Across Tamboran's Onshore Interests

One recordable incident occurred against the *Beetaloo Basin Kyalla 117 N2 Drilling, Hydraulic Fracturing and Well Testing EMP (OR13-2)*, during the reporting period – a wastewater tank liner leak. Tamboran has implemented several corrective actions following the recordable wastewater tank liner leak that occurred on 7 June 2023, which resulted in ~800 litres of flowback water spilling onto the lease pad / hard stand. Lessons learned include increasing the tensile and puncture resistance of liners used for extended evaporation to reduce salt solid damage to the liner.

There were no incidences recorded against the *Beetaloo Basin Kyalla 117 N2 Civil Construction EMP (OR11-1)* during the reporting period.