

**BEETALOO BASIN GROUNDWATER MONITORING
BORE INSTALLATION PROGRAM EP 117, 2018**
Annual Environment Performance Report (AEPR)

Tamboran B2 Pty Ltd

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Operator details	Tamboran Resources Ltd 110-112 The Corso Manly NSW 2095
Approved by	Matt Kernke: Environment and Approvals Manager
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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.	
Signature	<i>Matt Kernke</i>
Name	Matt Kernke
Position	Environment and Approvals Manager
Date	6 December 2023

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1. INTRODUCTION

The Northern Territory (NT) Petroleum (Environment) Regulations 2016 (the Regulations) include a requirement¹ 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 the *Beetaloo Basin Groundwater Monitoring Bore Installation Program Kyalla EP 117 (NT-2050-15-MP-0017)*, approved by the Minister on 10 December 2018.

The AEPR covers the following reporting period 11 December 2022 – 10 December 2023 and concludes the 5 year reporting against this EMP.

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

¹ Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11.

1.2 Background

Except for quarterly groundwater monitoring, there were no other regulated activities undertaken at the site during the reporting period under this EMP.

A Regulation 14 notification has been submitted to DEPWS to close-out the regulated activities under this EMP associated with:

- a. Drilling of groundwater monitoring bores: RN040896, RN041132 and RN040895; and
- b. Ongoing operation, maintenance and monitoring of the 2 gravel pits: SSGP1 and SSGP2 to support access track maintenance.

The location of the regulated activities is provided in Figure 1.



Figure 1: Beetaloo Sub-basin groundwater monitoring bore installation program Kyalla EP 117

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, including:
 - Routine inspections as committed in the EMP, including post we-season weed survey completed in Dec 2022, March 2023, May 2023 and July 2023.
 - Routine site inspections with maintenance actioned as required.
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
2a	Water monitoring bores will be drilled and constructed by a water bore driller licensed under the Water Act and in accordance with the current version of the <i>Minimum Construction Requirements for Water bores in Australia</i> .	Not applicable	No groundwater monitoring bores were drilled during the reporting period.
2b	The groundwater bore installation must be completed within 12 months from the date of this approval.	Compliant	All bores were completed by November 2019, as evidenced by the statement of bore submitted to the NT Water Resources division of DEPWS by Allwell drilling upon completion of each bore.

2.2 Environmental outcomes and performance standards

Table 4 provides an overview of compliance with the environmental outcomes and environmental performance standards described in the approved EMP. Table 4 also identifies those environmental outcomes and environmental performance standards covered by ongoing regulated activities in the following current EMPs:

- **Gravel pits:** Operation, management, monitoring, maintenance and rehabilitation of the gravel pits will continue under the *Beetaloo Basin Kyalla 117 N2 Civil Construction Environment Management Plan EP117*, approved by the Minister on 6 June 2019
- **Groundwater bores:** Operation, management, monitoring, maintenance and rehabilitation of the groundwater bores will continue under the *Beetaloo Sub-basin Kyalla 117 N2 Multi-well Drilling, Stimulation and Well Testing Program EMP (OR16-3)*, approved by the Minister on 22 February 2021.

Table 4: Environmental outcome and performance standard compliance summary

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
1	<ul style="list-style-type: none"> • Minimise disturbance to land and land use (including soils and terrain, flora and fauna). • Protection of waterways. • Avoid site contamination and remediate land areas disturbed by water bore drilling activities, including contaminated land. • Optimise (in order of most to least preferable) waste avoidance, reduction, reuse, recycling, treatment and disposal and remove and disposal of regulated waste as soon as practicable to a licensed waste disposal facility or recycling facility. 	<ul style="list-style-type: none"> • Land disturbance equal to or less than planned 	Compliant	<ul style="list-style-type: none"> • Approved clearing levels were increased from 6.86 ha to 9.86 ha via modifications under regulation 22 to accommodate additional lease pad disturbance and gravel pit disturbance. • Total clearing levels for the Kyalla 117 N2 site were estimated at 5.05 ha lower than approved limit of 9.86 ha. This was confirmed through survey program completed May 2020. • The location of the bores was left stable and non-polluting and has since been subsumed into the existing lease pads part of ongoing regulated activities under approved EMP OR16-3. Management, monitoring, maintenance and rehabilitation of the bores will continue under the Kylla Multiwell EMP OR16-3.
2	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Minimum incidences of erosion and sedimentation occurring. 	Compliant	
3		<ul style="list-style-type: none"> • Areas left safe, stable and non-polluting 	Compliant	<ul style="list-style-type: none"> • The gravel pits continue to be used and remain stable and weed free. Operation,

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
				<p>management, monitoring, maintenance and rehabilitation of the gravel pits will continue under the approved Kyalla Civils EMP.</p> <ul style="list-style-type: none"> • Management of soils will be undertaken as part of the regulated activities under: <ul style="list-style-type: none"> ○ Approved Kyalla Civils EMP (Refer environmental performance standards Table 22 Soils). ○ Approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 39 Soils S-1 – S-5).
4	<ul style="list-style-type: none"> • Minimise impacts to groundwater and maintain surface and groundwater values. Minimise erosion and sedimentation of waters as a result of water bore drilling activities. 	<ul style="list-style-type: none"> • No unacceptable risk or long-lasting change to surface and/or groundwater resources (quantity and quality). 	Compliant	<ul style="list-style-type: none"> • Water quality data is provided to DEPWS quarterly. • Water quality data does not indicate any material changes in water quality or level from water monitoring bore installation activities. • Water take is submitted to DEPWS via WALAPs at least monthly. • Management of surface water and/or groundwater will be undertaken as part of the regulated activities under approved Kyalla Multiwell EMP (refer environmental performance standards Table 40 Surface Water SW-1 – SW-4 and Table 41 Groundwater GW-1 – GW-6).
5		<ul style="list-style-type: none"> • No release of site stormwater or wastewater exceeding baseline surface water quality 	Not applicable	<ul style="list-style-type: none"> • The Kyalla EP 117 monitoring bore lease pad has been integrated into the broader Kyalla 117 N2 site. The larger site is fully bunded with offsite releases monitored and recorded

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
				<p>as per the Drilling, stimulation and well testing EMP.</p> <ul style="list-style-type: none"> • Management of surface water and/or groundwater environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Table 23 Surface Water and Table 24 Groundwater.) • Management of surface water and/or groundwater environmental values for the bores will be undertaken as part of the regulated activities under approved Kyalla Multiwell EMP (refer environmental performance standards Table 40 Surface Water SW-1 – SW-4).
6		<ul style="list-style-type: none"> • No long-lasting change in soil and surface water quality from base line conditions. 	Not applicable	<ul style="list-style-type: none"> • The bore location has since been subsumed into the existing lease pad as part of ongoing activities under approved EMP ORI6-3. • Operation, management, monitoring, maintenance and rehabilitation of the gravel pits will continue under the approved Kyalla Civils EMP. • Management of soils and surface water environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Table 22 and Table 23). • Management of soils and surface water environmental values for the bores will be

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
				undertaken as part of the regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 39 Soils S-1 – S-5; and Table 40 Surface Water SW-1 – SW-4).
7		<ul style="list-style-type: none"> Stream and creek crossings disturbance minimised. 	Not applicable	<ul style="list-style-type: none"> No clearing has occurred during the reporting period under this EMP. Management of surface water environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Table 23). Management of surface water environmental values for the bores will be undertaken as part of the regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 40 Surface Water SW-1 – SW-4).
8	<ul style="list-style-type: none"> Minimise disturbance to flora and fauna. Minimise disturbance to sensitive areas. 	<ul style="list-style-type: none"> Monitoring bore lease located to minimise impacts to fauna habitat and sensitive vegetation. 	Compliant	<ul style="list-style-type: none"> The bore location and operation has since been subsumed into the existing lease pad as part of ongoing activities under approved EMP ORI10-3. Management of flora and fauna environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Table 25 Vegetation, Flora, Fauna and Habitat and Table 26 Weeds).

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
				<ul style="list-style-type: none"> Management of flora and fauna environmental values for the bores will be undertaken as part of the regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 42 Ecology E1 – E8).
9		<ul style="list-style-type: none"> No native fauna impacts (injury or fatality) reported in OCIS during civil and water bore drilling related activities 	Not applicable	<ul style="list-style-type: none"> No civil construction or water bore drilling activities undertaken during the reporting period under this EMP. Operation, management, monitoring, maintenance and rehabilitation of the gravel pits will continue under the approved Kyalla Civils EMP. Management of flora and fauna environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Table 25 Vegetation, Flora, Fauna and Habitat and Table 26 Weeds). Management of flora and fauna environmental values for the bores will be undertaken as part of the regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 42 Ecology E1 – E8).
10		<ul style="list-style-type: none"> Security bond maintained until such time DITT is satisfied remediation of site. 	Compliant	<ul style="list-style-type: none"> Security bond submitted to DITT and approved on 19/11/2018. Tamboran is not seeking reimbursement of this bond.

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
11		<ul style="list-style-type: none"> No loss of sensitive vegetation resulting from Tamboran’s activities. 	Not applicable	<ul style="list-style-type: none"> No clearing in waterways has occurred. Disturbance located in approved area subsumed by the existing lease pad. Operation, management, monitoring, maintenance and rehabilitation of the gravel pits will continue under the approved Kyalla Civils EMP. Management of flora and fauna environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Table 25 Vegetation, Flora, Fauna and Habitat and Table 26 Weeds). Management of flora and fauna environmental values for the bores will be undertaken as part of the regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 42 Ecology E1 – E8).
12	<ul style="list-style-type: none"> Avoid the introduction of weeds Avoid the spread of existing weeds 	<ul style="list-style-type: none"> No introduction or spread of declared weeds resulting from Tamboran’s activities. 	Compliant	<ul style="list-style-type: none"> Routine site inspections completed with chemical weed controls implemented. Routine weed inspections of EP 117, including gravel pits were completed in Dec 2022, March 2023, May 2023 and July 2023. No declared weeds were present. The 2023 annual weed report is currently in prep and will be submitted in due course. Management of flora and fauna environmental values for the gravel pits will be undertaken as part of the regulated

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
				<p>activities under approved Kyalla Civils EMP (refer environmental performance standards Table 25 Vegetation, Flora, Fauna and Habitat and Table 26 Weeds).</p> <ul style="list-style-type: none"> Management of flora and fauna environmental values for the bores will be undertaken as part of the regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 42 Ecology E1 – E8).
13	<ul style="list-style-type: none"> To minimise impacts on soil, surface water, groundwater, sensitive habitat and air quality. To minimise creation of food sources or habitat for pest species. To minimise waste generation through reduce, reuse, recycle programs. 	<ul style="list-style-type: none"> The absence of wastes remaining on site at completion of operations (i.e., general rubbish, waste chemicals, workshop wastes including oily rags, containers etc.). 	Not applicable	<ul style="list-style-type: none"> No waste generated under this EMP during the reporting period. Waste management environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Weed Table 26; Waste Management Table 27; and Air Quality Table 28). Waste management environmental values for the bores will be undertaken as part of the approved regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 39 Soils S-1 – S-5; Table 40 Surface Water SW-1 – SW-4; Table 41 Groundwater GW-1 – GW-6; Table 42 Ecology E1 – E8; Table 43 Air Quality and GHG Emissions AQ-1 – AQ-5).
14		<ul style="list-style-type: none"> Waste registers maintained for the duration of the project. 	Not applicable	
15		<ul style="list-style-type: none"> Pest species not encouraged to the site. 	Not applicable	
16	<ul style="list-style-type: none"> Minimise environmental nuisance due to dust for sensitive receptors resulting from Tamboran’s activities. 	<ul style="list-style-type: none"> Minimal complaints regarding dust/air quality. 	Not applicable	<ul style="list-style-type: none"> No regulated activities were performed during the reporting period under this EMP.

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
17	<ul style="list-style-type: none"> Minimise greenhouse gas emissions. 	<ul style="list-style-type: none"> Amicable resolution of complaints 	Not applicable	<ul style="list-style-type: none"> Air quality environmental values for the gravel pits will be undertaken as part of the regulated activities under approved Kyalla Civils EMP (refer environmental performance standards Air Quality Table 28). Air quality environmental values for the bores will be undertaken as part of the approved regulated activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standards Table 43 Air Quality and GHG emissions AQ-1 – AQ-5; Table 44 Community CO-1).
18	<ul style="list-style-type: none"> Minimise the environmental nuisance for sensitive receivers as a result of civil and water bore activities, including tourist visual amenity. 	<ul style="list-style-type: none"> Minimal nuisance-related complaints received from sensitive receptors, including landowners 	Not applicable	<ul style="list-style-type: none"> No regulated activities were performed during the reporting period under this EMP. Sensitive receptors associated with operation, management, maintenance and rehabilitation of gravel pits will be managed as part of the ongoing activities under the Kyalla Civils EMP (refer environmental performance standard Table 32 Community). Sensitive receptors associated with the groundwater bores will be managed as part of the ongoing activities under the approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 44 Community CO-1).
19		<ul style="list-style-type: none"> Amicable resolution of complaints. 	Not applicable	
20	<ul style="list-style-type: none"> Minimise the risk of causing bushfires from Tamboran's activities. To minimise impacts on environmental habitat and fauna, soil erosion, impacts on stakeholders, impacts on 	<ul style="list-style-type: none"> Successful fire management will be indicated by having no uncontrolled fires occurring as a result of civil works and water bore drilling activities. 	Compliant	<ul style="list-style-type: none"> An annual fire frequency report using the NAFI database was submitted to DEPWS on 27 September 2023. Fire management associated with gravel pits will be managed as part of the ongoing

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
	<p>culturally significant sites, public infrastructure and community lands.</p> <ul style="list-style-type: none"> To ensure proper health and safety plan for activities. To prevent accidental fire risk and ensure safe storage of chemicals to prevent fire damage 			<p>activities under the Kyalla Civils EMP (refer environmental performance standard Table 30 Bushfire).</p> <ul style="list-style-type: none"> Fire management associated with bores will be undertaken as part of ongoing activities under approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 42 Ecology EC-6 – EC-8)).
21	<ul style="list-style-type: none"> To avoid disturbance of or damage to Aboriginal or cultural heritage artefacts or Sacred Sites. To minimise impacts upon or disruption to activities of Indigenous stakeholders in culturally significant areas. To ensure adequate background information and training is provided to employees and contractors working in culturally significant areas. To ensure that the health and safety of exploration workers and the community is not compromised through management of cultural and environmental awareness. 	<ul style="list-style-type: none"> No incidences of disturbance of archaeological sites or sites of cultural significance, or if disturbance is required, an application to disturb is submitted and approved prior to disturbance 	Not applicable	<ul style="list-style-type: none"> No regulated activities were performed during the reporting period under this EMP. Cultural heritage and sacred sites associated with gravel pits will be managed as part of the ongoing activities under the Kyalla Civils EMP (refer environmental performance standard Table 31 Cultural Heritage and Sacred Sites). Cultural heritage and sacred sites associated with groundwater bores will be managed as part of the ongoing activities under the approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 45 Community EC-1 – EC-3).
22	<ul style="list-style-type: none"> Minimise impacts upon environmental values of the local community. Minimise impacts on cultural heritage. Minimise safety risks to the public and other third parties. Maintain and enhance partnerships with the local community, including using local contractors. 	<ul style="list-style-type: none"> An absence of issues arising, which have the potential to affect the work program, is a good indication of successful communications 	Compliant	<ul style="list-style-type: none"> No complaints received from the traditional owners recorded during the reporting period. Cultural heritage and sacred sites associated with gravel pits will be managed as part of the ongoing activities under the Kyalla Civils EMP (refer environmental performance standard Table 31 Cultural Heritage and Sacred Sites).

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
				<ul style="list-style-type: none"> Cultural heritage and sacred sites associated with groundwater bores will be managed as part of the ongoing activities under the approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 45 Community EC-1 – EC-3]).
23		<ul style="list-style-type: none"> No unresolved reasonable complaints. 	Not applicable	<ul style="list-style-type: none"> No complaints received from local community or traditional owners during the reporting period. Cultural heritage and sacred sites associated with gravel pits will be managed as part of the ongoing activities under the Kyalla Civils EMP (refer environmental performance standard Table 31 Cultural Heritage and Sacred Sites; Table 32 Community). Cultural heritage and sacred sites associated with groundwater bores will be managed as part of the ongoing activities under the approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 44 Lighting, Noise, Vibration and Visual amenity CO-1 – CO-[2]).
24		<ul style="list-style-type: none"> An overall social and economic benefit as compared to perceived adverse impacts as derived from consultations with community advisory groups 	Compliant	<ul style="list-style-type: none"> Aboriginal contractors and local businesses used for ongoing site inspections and maintenance, and general goods and services. <ul style="list-style-type: none"> ~\$18 million spent in the Northern Territory during FY23.

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
				<ul style="list-style-type: none"> • ~\$500,000 spent with local First Nations companies in FY23.² • Community, cultural heritage and sacred sites associated with gravel pits will be managed as part of the ongoing activities under the Kyalla Civils EMP (refer environmental performance standard Table 32 Community). • Community, cultural heritage and sacred sites associated with groundwater bores will be managed as part of the ongoing activities under the approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 45 Community [EC-1 – EC-3]).
25	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • High level of satisfaction with complaint outcomes and complaint resolution processes. 	Not applicable	<ul style="list-style-type: none"> • No complaints received from local community or traditional owners during the reporting period. • Community, cultural heritage and sacred sites associated with gravel pits will be managed as part of the ongoing activities under the Kyalla Civils EMP (refer environmental performance standard Table 32 Community). • Community, cultural heritage and sacred sites associated with groundwater bores will be managed as part of the ongoing activities under the approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 45 Community [EC-1 – EC-3]).

² Tamboran investor presentation, September 2023: [Tamboran resources \(investi.com.au\)](https://investi.com.au)

#	Environmental outcomes	Environmental Performance Standard (EPS)	Compliance	Evidence
26	•	<ul style="list-style-type: none"> Where suitable, include Aboriginal employment in the proposed program. 	Compliant	<ul style="list-style-type: none"> Aboriginal contractors and local businesses used for ongoing site inspections and maintenance, and general goods and services. <ul style="list-style-type: none"> ~\$18 million spent in the NT during FY23. ~\$500,000 spent with local First Nations companies in FY23.³ Community, cultural heritage and sacred sites associated with gravel pits will be managed as part of the ongoing activities under the Kyalla Civils EMP (refer environmental performance standard Table 32 Community). Community, cultural heritage and sacred sites associated with groundwater bores will be managed as part of the ongoing activities under the approved Kyalla Multiwell EMP ORI6-3 (refer environmental performance standard Table 45 Community [EC-1 – EC-3]).

³ Ibid.

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 Regulations⁴ 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.	Not applicable	<ul style="list-style-type: none"> GIS data of disturbance submitted to DEPWS in accordance with EMP approval. No activities have occurred on the site under this EMP during the reporting period.
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"> Weed management plan developed and implemented in accordance with the relevant conditions of the environmental approvals for the Beetaloo exploration program. Routine site inspections completed with chemical weed controls implemented. Routine weed inspections of EP 117, including gravel pits were completed Dec 2022, March 2023, May 2023 and July 2023. No declared weeds were present.
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"> Fire management plan implemented. Annual fire frequency mapping has been provided to DEPWS on 27 September 2023.
4	Code A.3.9(c) Code A.3.9(e)	The rehabilitation plan developed as part of the EMP requires progressive rehabilitation of significantly disturbed land which is required to commence no longer than 12 months following the cessation of	Compliant	<ul style="list-style-type: none"> Rehabilitation management plan developed and submitted to DEPWS 17/04/2020 for Kyalla 117 N2

⁴ Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11(2).

#	Reference	Requirement	Compliance Status	Evidence
		activities on the land. It also requires regular maintenance and annual monitoring of rehabilitated areas.		<ul style="list-style-type: none"> Operation, management, monitoring, maintenance and rehabilitation of the gravel pits will continue under the approved Kyalla Civils EMP. The bore locations and operation has since been subsumed into the existing lease pad as part of ongoing activities under approved Kyalla Multi-well EMP (ORI6-3).
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"> total volume of hydraulic fracturing fluid pumped, 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. 	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
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 and included in the operator's annual report.	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
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.	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
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	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.

#	Reference	Requirement	Compliance Status	Evidence
		requirements for the decommissioning of petroleum wells.		
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"> All water monitoring bore completion reports have been submitted to DEPWS, including initial water quality data post completion. Groundwater extraction is reported at least monthly to DEPWS via the WALAPS website. Groundwater monitoring has been reported under the <i>Beetaloo Basin 2019-24 Drilling, Stimulation and Well Testing Program, Kyalla EP117 N2 EMP</i>. Data was submitted to DEPWS on: <ul style="list-style-type: none"> Q4 2022: 25 January 2023 Q1 2023: 13 June 2023 The 13 June 2023 results were for the April 2023 round of monitoring, which marked the end of the 3-year monitoring approval condition.
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.	Not applicable	<ul style="list-style-type: none"> No wastewater from exploration well drilling or hydraulic fracture stimulation activities produced.
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.	Not applicable	<ul style="list-style-type: none"> No wastewater from exploration well drilling or hydraulic fracture stimulation activities produced.
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.	Not applicable	<ul style="list-style-type: none"> No wastewater from exploration well drilling or hydraulic fracture stimulation activities produced.
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	Not applicable	<ul style="list-style-type: none"> Not applicable to the scope of this EMP.

#	Reference	Requirement	Compliance Status	Evidence
		actions) must be submitted within one month of the significantly higher-level methane event being detected.		
14	Code D.5.9.2(c)	Emissions from exploration, well construction (including during flowback) and workovers must be measured and reports submitted.	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
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.	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
16	Code D.6.2(a)	Reports of baseline assessments must be submitted at the conclusion of each field campaign.	Not applicable	<ul style="list-style-type: none"> 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.	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
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 notice is accepted and the plan ceases to be in force.	Compliant	<ul style="list-style-type: none"> The EMP was in force until 10 December 2023. A Regulation 14 notice has been submitted to the Minister to close-out the EMP. All activities associated with the operation, maintenance, management and rehabilitation of the gravel pits will be undertaken as part of the ongoing activities under the approved Kyalla Civils EMP. All activities associated with the monitoring bores, will be undertaken as part of the ongoing activities under the approved Kyalla Multi-well EMP ORI6-3.
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.	Not applicable	<ul style="list-style-type: none"> No reportable incidents have been recorded.

#	Reference	Requirement	Compliance Status	Evidence
		A written report must be provided within 24 hours if the initial report was made orally.		
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.	Not applicable	<ul style="list-style-type: none"> 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"> Quarterly recordable incidents reports were provided as follows: <ul style="list-style-type: none"> Q4 2022 report provided 16/01/2023 Q1 2023 report provided 13/04/2023 Q2 2023 report provided 14/07/2023 Q3 2023 report provided 13/10/2023 There were no recordable incidents reported under this EMP up to 10 December 2023.
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.	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
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.	Not applicable	<ul style="list-style-type: none"> No exploration well drilling or hydraulic fracture stimulation activities approved or completed under this EMP.
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"> Land access agreements are in place covering all current and future activities. Engagement with each stakeholder is undertaken monthly, or at a higher/lower frequency depending on the level of activity being completed onsite.

#	Reference	Requirement	Compliance Status	Evidence
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.	Not applicable	<ul style="list-style-type: none"> No regulated activities were undertaken under this EMP, during the reporting period.
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"> No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period.
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"> No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period.

3. SUMMARY OF COMPLIANCE

3.1 Overview of compliance

Table 6 provides a summary of the results of the compliance assessment against the EMP.

Table 6: Beetaloo Basin Groundwater Monitoring Bore Installation Program EMP EP 98 compliance summary

Compliance Indicator	Number	Percentage ¹
Compliant	21	100%
Not compliant	0	0%
Not applicable*	34	NA

¹ Indicators identified as “not applicable” are excluded from the compliance percentages

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-compliance 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

Due to the limited nature of activities under this EMP, no lessons learnt have arisen.