



Annual Environmental Performance Report

Mereenie Oil and Gas Field
Field Environmental Management Plan

June 2022


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Signature and Certification

We hereby declare that the information provided in this annual environment performance report and accompanying documents is to the best of our knowledge, true and correct.	
Signature	
Name	Ross Evans
Position	Ross Evans – Chief Operating Officer
Date	9 June 2022

Glossary

Abbreviation / Acronyms	Definition
AAPA	Aboriginal Areas Protection Authority
AEPR	Annual Environment Performance Report
CLC	Central Land Council
CoP	Code of Practice
CP	Central Petroleum Limited
CTP	Central Treatment Plant
CLC	Central Land Council
DEPWS	Department of Environment, Parks and Water Security
DITT	Department Industry, Tourism and Trade
EMP	Environmental Management Plan
EM	East Mereenie
EPA	Environment Protection Authority
EPS	Environmental Performance Standard
ESS	Eastern Satellite Station
FEMP	Field Environment Management Plan
GIS	Geographic Information System
HSE	Health, Safety and Environment
MRN	Mereenie Oil and Gas Field
NEMP	National Environment Management Plan
NORMS	Naturally Occurring Radioactive Materials
NPI	National Pollution Inventory
NT	Northern Territory
OL4	Operating Licence Four
OL5	Operating Licence Five
PL2	Pipeline Licence Two
TO	Traditional Owner
WM	West Mereenie

Note: throughout the document references to the:

- Department of Environment and Natural Resources (DENR) have been replaced with the Department of Environment, Parks and Water Security (DEPWS)
- Department of Primary Industries and Resources (DPIR) have been replaced with the Department of Industry, Trade and Tourism (DITT)

Table of Contents

1.0	Introduction	1
1.1	Background	1
1.2	Contents of Performance Report	1
1.3	Assessment of Compliance	2
1.4	Evidence of Compliance	3
2.0	Demonstration of Compliance	4
2.1	Ministerial Approval Conditions	4
2.2	Environmental Outcomes and Environmental Performance Standards	4
2.3	Mandatory Reporting Requirements	14
3.0	Summary of Compliance	19
3.1	Overview of Compliance	19
3.2	Overview of Items Found Not Compliant	19
	3.2.1 Environmental Performance Standards	19
	3.2.2 Mandatory Reporting Requirements	19
3.3	Application of Lessons Learned Across CP Onshore Interests	19

Figures

Figure 1-1	Mereenie Oil and Gas Field Location	2
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Tables

Table 1-1	Compliance Descriptors	2
Table 2-1	Compliance with Ministerial EMP Approval Conditions	4
Table 2-2	Compliance with Environmental Outcomes and Environmental Performance Standards	4
Table 2-3	Compliance with Mandatory Reporting Requirements	14
Table 3-1	Compliance Summary	19
Table 3-2	Non Compliant Environmental Performance Standards	19

1.0 Introduction

This Annual Environment Performance Report (AEPR), as required under the *Petroleum (Environment) Regulations 2016* (NT), is presented to demonstrate the environmental performance of Central Petroleum (CP) as the operator of the Mereenie Oil and Gas Field (MRN) in respect of achieving the environmental outcomes and performance standards, and monitoring, recording, and reporting requirements.

The report includes sufficient information to allow the minister to assess CP's compliance with the obligations described within the MRN Field Environmental Management Plan (FEMP) approved 14 March 2018 and any other law in force in the Northern Territory related to conduct of the regulated activity.

The AEPR covers the period from 14 March 2021 to 13 March 2022. Activity was undertaken at the MRN continuously during the reporting period.

1.1 Background

The regulated activities¹ conducted under the MRN FEMP that have been assessed against performance are as follows:

- Civil maintenance including road, tracks, and lease maintenance
- Well bore management
- Gas and oil systems
- Pipeline and flowline operations
- Processing facilities
- Fuel and chemical storage and handling
- Waste management

Drilling, hydraulic fracturing, seismic or clearing activities are out-of-scope of the FEMP and were not conducted under this FEMP during the reporting period.

The location of the MRN is shown in Figure 1-1.

1.2 Contents of Performance Report

This AEPR describes the environmental performance of CP by evaluating the following:

1. Compliance with Ministerial approval conditions
2. Compliance with each environmental outcome and performance standard within the approved EMP
3. Compliance with reporting requirements in accordance with 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

The Code of Practice: Onshore Petroleum Activities in the Northern Territory (legislated 11 June 2019) was after the approval of the MRN FEMP and therefore is not applicable to the activities in the EMP.

¹ As detailed in Scope section of the approved Mereenie Oil and Gas Field Environmental Management Plan

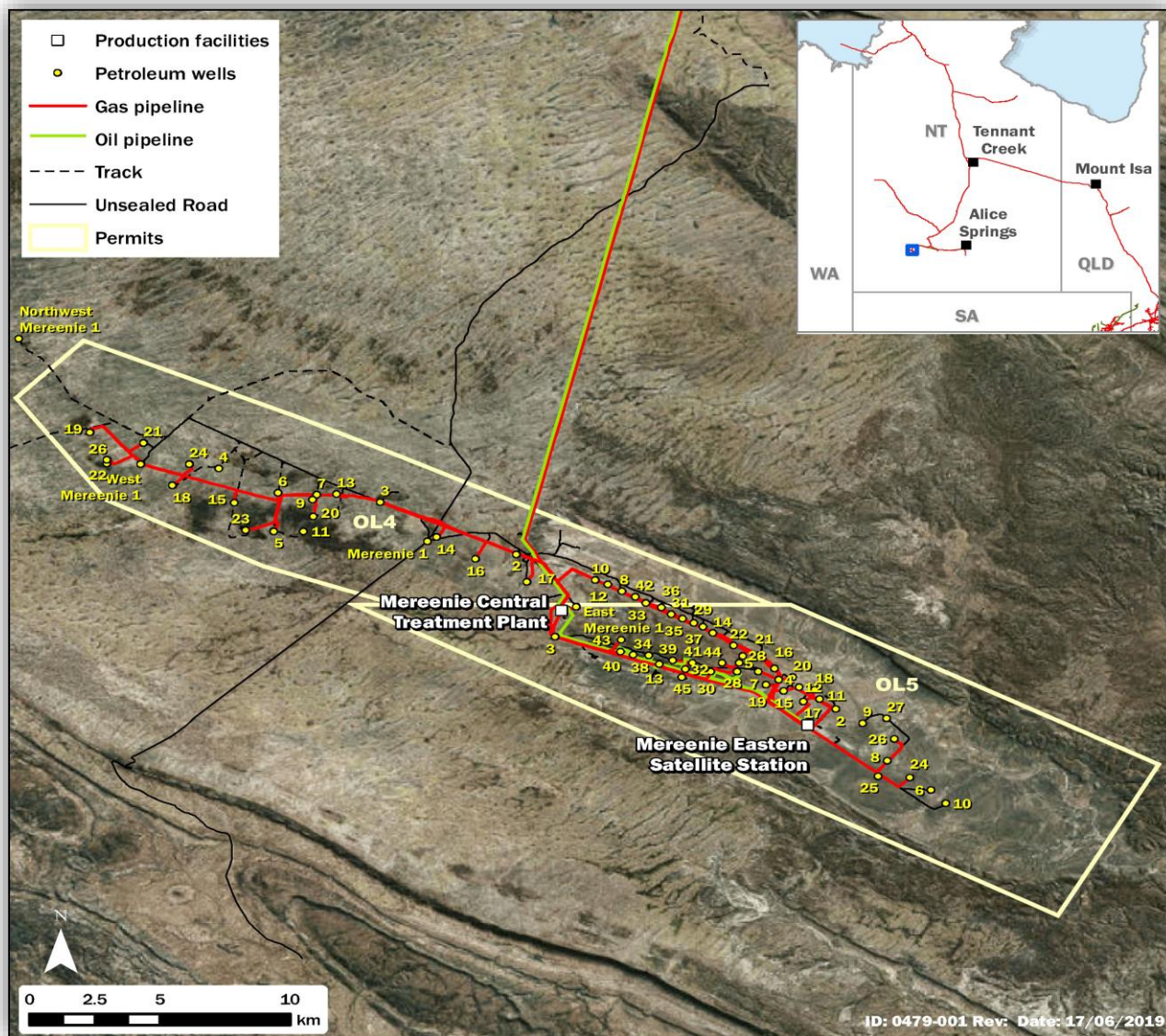


Figure 1-1 Mereenie Oil and Gas Field Location

1.3 Assessment of Compliance

Table 1-1 shows the compliance status indicators used in the AEPR.

Table 1-1 Compliance Descriptors

Indicator	Description
Compliant	Compliant with requirement for entire 12-month reporting period
Not Compliant	Not compliant with one or all aspects of the requirement during the reporting period
Not Applicable	Requirement not applicable during the reporting period

1.4 Evidence of Compliance

The following sources of evidence are used to demonstrate compliance:

1. Internal tracking of compliance by CP through:
 - Inspections, as committed to in the MRN FEMP
 - Our incident management system records
 - Quarterly environmental inspections
 - June, September, December 2021 and March 2022
 - Area and lease inspection reports
 - Work management and maintenance system records
 - Daily production reports
 - Various registers in place including:
 - animal control, waste, hazardous goods, chemical, weed control
2. Reports provided under the National Greenhouse and Energy Reporting Act
3. Outcome from regulatory inspections conducted by the Department of Environment, Parks and Water Security (DEPWS), Petroleum Operations
4. Recordable and reportable incident reports submitted to DEPWS Petroleum Operations
5. Reports provided to DITT, the Department of Industry, Trade and Tourism (DITT) and other government agencies.

2.0 Demonstration of Compliance

2.1 Ministerial Approval Conditions

The MRN FEMP was approved by the Minister for Primary Industry and Resources on 14 March 2018 with conditions, which are assessed for compliance in Table 2-1.

Table 2-1 Compliance with Ministerial EMP Approval Conditions

No	Ministerial Condition	Compliance Status	Evidence
1	2(a) Determination of an environmental security in a form accepted by the Department of Primary Industries and Resources	Compliant	Environmental security bonds are currently in place for OL4, OL5 and PL2 these bonds are held by Central and Santos. CP engaged an independent civil engineering and resource industry services company, to develop an estimate for end-of-life closure and rehabilitation based on their own and industry rates for demolition, waste removal and disposal, and site rehabilitation. Central submitted these estimates and a proposed environmental security to DEPWS in August 2019.
2	2(b) Submitted no later than 12 months from the date of this Approval Notice	Compliant	An invoice for the new environmental security was issued by DITT in January 2020 and the payment was made by Central and Macquarie in February 2021.

2.2 Environmental Outcomes and Environmental Performance Standards

Table 2-2 provides a systematic overview of CP's compliance with the environmental outcomes and environmental performance standards within the approved MRN FEMP. The environmental outcomes for the MRN FEMP (as listed in Table 2-2 below) are sourced from the 'environmental objectives' in Table 8-1 of the MRN FEMP and the environmental performance standards sourced from 'environmental outcomes' in Table 8-1 of the MRN FEMP and the 'mitigation measures / performance standards' in Tables 8-2 to 8-8.

Table 2-2 Compliance with Environmental Outcomes and Environmental Performance Standards

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
1	Prevent a loss of biodiversity through injury to fauna,	No off-road driving	Compliant	Incident management system did not identify any instances of unauthorised off-road driving.
		No driving above designated speed limits	Compliant	Incident management system did not identify any instances of vehicles speeding.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
	unauthorised disturbance to native flora, fauna and fauna habitat, the spread of weeds, increases in predator species, introduced fauna because of the activities conducted in the OL area.	No unauthorised night-time driving	Compliant	Incident management system and Journey Management System did not identify any instances of unauthorised night-time driving.
		No driving under the influence of alcohol, BAC=0	Compliant	Incident management system did not identify any instances of employees or contractors driving under the influence of alcohol.
		Fauna fatalities register completed for each incident, near miss and appropriate action taken to reduce potential for further incidents	Compliant	Incident Management System was used to record any near misses or strikes across the field. System also captures any actions, lessons learnt, etc.
		No fauna access to waste	Compliant	Incident management system did not identify any instances of fauna access to waste. Regular area inspections did not identify any instances where bins were not secured to prevent fauna access.
		No weeds will be present in areas where fill has been used	Not Applicable	No fill was brought onto the lease and for use at the operation during the reporting period, therefore the EPS was not triggered.
		No new infestation of weeds	Complaint	The annual weed survey undertaken in August 2021 did not identify any new NT declared weeds or Weeds of National Significance. Weed management activities continued during the period.
		No spills or spread of hazardous material into surrounding environment	Compliant	Incident management system records identified several minor spills and leaks all of which were in existing disturbed areas and did not impact the surrounding environment. All the spills and leaks were remediated at the time of the incident and reported via quarterly incident reports.
		No unauthorised land clearing	Not Applicable	No clearing was required or undertaken during operational activities therefore the EPS was not triggered.
		No unauthorised third-party access	Compliant	Incident management system records did not identify any instances of unauthorised access to site.
		All spills or leaks of hazardous material will be remediated in accordance with the NEMP guidelines	Compliant	Incident management system records identified that all leaks and spills were effectively remediated at the time of the incident in accordance with NEMP guidelines.
All vehicles will be serviced according to vehicle manufacturer specifications and frequency requirements and the NT Motor Vehicle registry standards	Compliant	All CP controlled vehicles have preventative maintenance schedules in line with OEM guidelines and NT standards. Work orders were raised and closed out in the maintenance system to demonstrate compliance		

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
		No feeding of local fauna	Compliant	Incident management system records did not identify any instances of employees or contractors feeding local fauna.
		Areas no longer required for safe operation will commence rehabilitation within 12 months of decommissioning	Not Applicable	No areas have been decommissioned during the reporting period therefore the EPS was not triggered.
2	Prevent land degradation as a result erosion (water / wind) and sedimentation issues, new road / clearing / construction and maintenance activities as well as topsoil management activities conducted in the OL area	No unauthorised clearing	Not Applicable	No clearing was required or undertaken, all activities were undertaken within previously cleared areas, therefore, the EPS was not triggered.
		Location of topsoil mounds will be clearly marked and less than 1.5m high	Not Applicable	No land disturbance was undertaken under the MRN FEMP therefore the EPS was not triggered.
		No off-road driving	Compliant	Incident management system did not identify any instances of unauthorised off-road driving.
		No unauthorised third-party access	Compliant	Incident management system records did not identify any instances of unauthorised access to site.
		Areas no longer required for safe operation will commence rehabilitation within 12 months of decommissioning	Not Applicable	No areas have been decommissioned during the reporting period therefore the EPS was not triggered.
		All erosion and sedimentation control devices will be designed and constructed following DEPWS and IECA guidelines and best practice principles	Compliant	Area inspections records confirmed that erosion and sedimentation control devices were in place and compliant with DEPWS and IECA best practice guidelines. Incident management system records did identify some instances of erosion following significant rainfall events which were remediated and closed out in our maintenance system.
		No windrows or concentration points	Compliant	Area inspections and incident management system records did not identify any significant windrows or concentration points. Activities to prevent / manage land degradation and erosion were ongoing during the reporting period, with increased inspections following significant rainfall events.
		Disturbed areas will be restored to a landform consistent with surrounding environment with no blocking of drainage channels or water courses	Not Applicable	No areas were disturbed as all operational activities were undertaken within previously cleared areas which are being used for operational activities. Therefore, the EPS has not been triggered.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
		No new erosion or sedimentation will occur on rehabilitated surfaces first significant rainfall	Not Applicable	No rehabilitation was undertaken as all activities were undertaken within previously cleared areas which are currently being used for operational activities. Therefore, the EPS has not been triggered.
		Annual Rehabilitation Report will be submitted to DITT / DEPWS with information regarding: <ul style="list-style-type: none"> - total area rehabilitated - photo monitoring points, GPS locations and results - any areas left in agreement with future landholders/managers - monitoring of progressive rehabilitation, including flora type and density, fauna activity, and soil stability - any erosion and sedimentation issues - any stakeholder consultations and results of discussions - any issues noticed and remedial actions taken - monitoring of contaminated sites 	Not Applicable	No areas were rehabilitated during the period. All activities were undertaken within previously cleared areas currently being used for operational activities. Therefore, the EPS has not been triggered.
		All staff will be inducted to the FEMP / EMP	Compliant	MRN site induction records identified that all employees and contractors were inducted prior to or upon arrival at site and before any work commenced. Incident management system records did not identify any employees and contractors who were not inducted. Induction materials include environmental content which deals with erosion and sedimentation risks and controls.
3	To prevent surface and groundwater degradation, contamination or alteration to	Clearing works or disturbance will not affect the long-term stability of existing drainage channels or water courses	Not Applicable	No clearing was undertaken. All operational activities were conducted within previously cleared areas, therefore, the EPS was not triggered.
		Regular testing of groundwater quality, extraction volumes and static water level recorded.	Compliant	A comprehensive groundwater monitoring plan for the Mereenie field was executed in May 2021 and October 2021 as planned.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
	natural drainage patterns and flow lines, downstream water courses as a result of activities conducted in the OL area	No uncontrolled or unregulated release of wastes	Compliant	Incident management system records did not identify any instances of uncontrolled or unregulated release of solid or liquid waste streams to the surrounding environment. Regular area inspections did not identify any significant waste management issues. Minor housekeeping matters were dealt with immediately via the work order system.
		No waste or hazardous material stored with potential for impact on water courses	Compliant	Regular area and environmental inspections records confirmed that all hazardous chemical was stored in a bunded areas with appropriate spill kits and SDS available. No incidents of hazardous materials being stored incorrectly were reported in the incident management system records.
		No unregulated disposal of greywater	Compliant	Incident management system records did not identify any unregulated disposal of grey water.
		All staff inducted will be inducted to the FEMP/EMP	Compliant	MRN site induction records identified that all employees and contractors were inducted prior to or upon arrival at site and before any work commenced. Incident management system records did not identify any employees and contractors who were not inducted. Induction materials include environmental content which deals with surface and ground water.
4	Ensure all waste streams generated in the OL area are dealt with and contained; to have minimal impact on the environment	No uncontrolled or unregulated release of wastes	Compliant	Regular area inspections did not identify any significant waste management issues. Generally, wastes were managed in accordance with the EMP although the Incident Management System records identified a few minor spills of liquid wastes such as oily water during operational activities, however all were in disturbed areas and did not impact the surrounding environment. Minor housekeeping matters were dealt with immediately via the work order system.
		No fauna access to waste	Compliant	Incident management system did not identify any instances of fauna access to waste. Regular area inspections did not identify any instances where bins did not have secure lids to prevent fauna access / interference.
		All waste will be separated and stored appropriately.	Compliant	Area inspections / incident management records did not identify any instances where waste was not being separated and stored appropriately.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
		All waste not requiring routine removal will be stored in a waste management area for re-use or ultimate offsite disposal	Compliant	Area inspections records confirmed that all waste was stored appropriately in a designated waste area on site. Incident management system records did not identify any instances where waste was not stored appropriately in the designated area.
		Final waste disposal off-site	Compliant	Waste register and incident management system records did not identify any instances where on site waste required to be removed was not conducted by an appropriately licensed and approved contractor.
		All waste (quantity and type of waste) removed from site will be recorded	Compliant	All waste removed from site is recorded in a register which includes the date of removal, type of waste, whether it is listed, volume of waste, who removed it and its destination.
		Only approved waste will be burnt in a designated burn pit	Compliant	Only approved waste was periodically burnt in the onsite pit. There were no incidents related to the activity.
		Predator species and introduced fauna activity will be monitored around waste storage areas	Compliant	Incident management system did not identify any instances of fauna access to waste. Fauna are regularly seen on the lease and are monitored.
		No increase in invasive flora, NT declared weeds or WoNS in waste disposal areas	Compliant	Weeds survey undertaken in August 2021 at MRN did identify some weeds in waste disposal areas, however these were minor and were controlled as part of regular activities.
		No unregulated disposal of NT EPA listed waste	Compliant	All waste removed from site and disposed of was recorded in the register which includes the date of removal, type of waste, whether it is listed, volume of waste, who removed it and its destination. There were no instances identified of listed waste not being disposed of in accordance with the NT EPA listed waste register.
		All hazardous waste material will be separated in the appropriate area for disposal according to their SDS, and the hazardous goods register	Compliant	Regular area inspections and annual audits indicated that all hazardous waste was stored in an appropriate location near the warehouse. Incident management records did not identify any instances of hazardous waste material being stored incorrectly.
		All waste will be stored in appropriately banded areas	Compliant	Area inspections and incident management records during the reporting period did not identify any waste not being stored appropriately banded areas.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
		Waste will be managed according to the waste reduction hierarchy	Compliant	Discussion with site management and procurement indicated that efforts are continuously being made to reduce material imported to site and measures to re-use where possible or separation for recycling.
		No waste found outside of designated areas	Compliant	Area inspection and incident management system records did not identify any waste being stored outside of designated areas.
		No accumulation of waste in vehicles	Compliant	Vehicle pre-start checklist prompt drivers to check to ensure vehicles are clean. A review of checklists conducted did not indicate any accumulated waste in vehicles.
		No contamination to soil from liquid waste containers	Compliant	Area inspection and incident management system records did not identify any instances of liquid waste containers leaking and contaminating soil.
		Clean-up / spill kits will be provided in all relevant areas	Compliant	Area inspections records confirmed that clean up and spill kits were in appropriate areas across site. Incident management records did not identify any spill kits which were incomplete or missing.
		All clean up material will be appropriately disposed of for ultimate off-site disposal	Compliant	Incident management system and waste management records identified that any clean up material was appropriately managed either being transferred to an onsite bio pit or if required disposed of off-site.
		All spills and / or leaks are remediated as soon as possible	Compliant	Incident management system records identified that all spills and leaks were remediated as soon as practicable. Monitoring continues to be undertaken where necessary to review adequacy of the remediation response.
		All spills and leaks are reported to the regulator as required	Compliant	Incident management system records identified several minor spills and leaks which were remediated as soon as possible and reported as required within Quarterly Incident Reports.
		All staff, visitors and contractors will be inducted to the MRN FEMP	Compliant	MRN site induction records identified that all employees and contractors were inducted prior to or upon arrival at site and before any work commenced. Incident management system records did not identify any employees and contractors who were not inducted. Induction materials included waste management content.
5	Minimise the adverse effects on air quality and noise to	No uncontrolled release of gas	Non-compliant	Incident management system records identified minor incidents involving uncontrolled release of gas into the atmosphere which were reported at the time of the incident and within the quarterly incident reports. Corrective actions were implemented immediately.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
	surrounding receptors from the operation in the OL area	No unauthorised flaring of gas	Not Applicable	Incident management system records did not identify any instances of unauthorised flaring of gas. The flaring of gas is an approved activity at Mereenie therefore the EPS was not triggered.
		No open flames or fires outside of designated areas	Compliant	Incident management system / routine inspection records did not identify any specific instances of open flames outside of designated areas.
		Smoking restricted to designated areas	Compliant	Incident management system records did not identify any instances of smoking outside of designated areas.
		Emissions of greenhouse gases and fugitive emissions will be minimised	Compliant	Emissions of greenhouse gases and fugitive emissions are captured and reported in under the National Greenhouse and Energy Reporting Act. Efforts are made on site to minimise emissions where practical through a range of monitoring and improvement projects.
		Noise complaints will be minimised	Compliant	Incident management system records did not identify any instances of noise complaints. There are no neighbours close to site, but CP as detailed in their stakeholder engagement records proactively engagement with stakeholders and interested parties.
		Consult with and record engagement with stakeholders any potential impacts to air and noise quality.	Not Applicable	No increased noise or air quality issues as a result of operations was recorded therefore the EPS was not triggered.
		All vehicles will be serviced to vehicle manufacture specifications and frequency and registered in accordance with NT motor vehicle registry regulations and workplace health and safety regulations	Compliant	The maintenance management system captured all CP controlled vehicles and their maintenance records e.g. preventative maintenance schedules and executed activities. No overdue maintenance activities were identified. All vehicles used at MRN had the appropriate registration either pastoral or road.
		No decrease in air quality due to fires	Not Applicable	Incident management system records did not identify any fires on site therefore the EPS was not triggered.
		Only approved waste will be burnt in a designated burn pit	Compliant	Only approved waste was periodically burnt in the onsite pit. There were no incidents related to the activity.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
		All staff will be inducted to the MRN FEMP	Compliant	MRN site induction records identified that all employees and contractors were inducted prior to or upon arrival at site and before any work commenced. Incident management system records did not identify any employees and contractors who were not inducted. Induction materials include air quality and noise content.
6	Minimise the adverse effect on people (injury or death), infrastructure and the surrounding receptors from fire, either caused by operations in the OL area or natural causes	No open flames or fires outside of designated areas	Compliant	Incident management system / routine inspection records did not identify any instances of open flames or fires outside of designated areas.
		No smoking outside of designated areas	Compliant	Incident management system records did not identify any instances of smoking outside of designated areas.
		Firefighting equipment will be available and serviced as per manufacturer specifications	Compliant	Bi-annual inspections have identified all firefighting equipment meets Australian Standards and is in working order.
		SDS will be available and appropriate firefighting equipment next to all flammable material stores.	Compliant	Copies of SDS are kept for any hazardous material used or stored on site both hardcopies and electronically. Area inspections confirmed that firefighting equipment was available across site.
		Staff will be trained in the use of firefighting equipment	Compliant	Training records confirmed that all field-based personnel have received fire training and conduct drill exercises.
		Existing and new fire breaks will be maintained to keep at least 4m clear around all infrastructure or at low vegetation cover (<10cm)	Compliant	Area inspections records confirmed that fire breaks were maintained to keep at least 4m clear around all infrastructure. If any remediation was identified work orders were raised and completed.
		No combustible material will be stored or transported within 25m of the flare pit	Compliant	Area inspections / incident management system records did not identify any instances of combustible material being stored or transported within 25m of the flare pit.
		Volumes of gas flares will be minimised where possible	Compliant	The volume of gas flared is monitored and recorded in the daily production reports. Flaring is minimised through proactive production management to nominated sales volumes as well to reinjection of excess gas into the reservoir.
		Gas will undergo complete combustion when flared	Compliant	Continuous monitoring of flaring operations occurs at both the Mereenie CTP and ESS. There were no instances any incident with those facilities. There was one minor event recorded where the mobile test separator flare was extinguished however due to the short duration (under 2 minutes) not volumes could be calculated.

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
7	Ensure all heritage and culturally significant sites (registered or unregistered) are identified and protected within the OL area	No unauthorised third-party access	Not Applicable	The incident management system did not identify any incidents of unauthorised site access therefore the EPS was not triggered.
		No unauthorised clearing	Not Applicable	No clearing was required or undertaken during the reporting period, all activities were undertaken within previously cleared areas, therefore, the EPS was not triggered.
		No illicit drugs and alcohol on site	Compliant	A review of incident management system and records of routine testing did not identify any incidents or positive tests.
		No unauthorised firearms on site	Compliant	Incident management records did not identify any unauthorised firearms on site and the results of regular audits during the reporting period confirmed that the firearms on site are being managed in accordance with standards.
		No impact to cultural heritage sites	Compliant	Incident management records did not identify any incidents which impacted cultural heritage sites.
		Traditional owners will be allowed to access the site at any time	Compliant	Traditional Owners can access the field at any time and notify management of entry and exit.
		All staff will be inducted to the MRN FEMP.	Compliant	MRN site induction records identified that all employees and contractors were inducted prior to or upon arrival at site and before any work commenced. Incident management system records did not identify any employees and contractors who were not inducted. Induction materials include content which deals with heritage and culturally significant sites.

2.3 Mandatory Reporting Requirements

Table 2-3 demonstrates CP's compliance with the reporting requirements under the *Petroleum (Environment) Regulations 2016* (NT) Schedule 1, item 11(2), which requires all information required to be recorded, monitored or reported, to be provided. Where relevant, CP also confirms that all records, monitoring or required reporting under the *Petroleum (Environment) Regulations 2016* (NT) has been provided to DEPWS or the relevant NTG agency except for the elements highlighted in Table 2-3.

Table 2-3 Compliance with Mandatory Reporting Requirements

No	Reference	Requirement	Compliance Status	Evidence
1	Code cl A.3.5	Geospatial information depicting areas cleared is to be provided to the Minister.	Not Applicable	No clearing was completed during the reporting period under the Mereenie FEMP.
2	Code cl A.3.6 (b)	Weed management plan developed as part of the EMP must provide for ongoing weed monitoring.	Compliant	The Weed Management Plan was implemented, and monitoring was conducted during the reporting period. A weed management survey was conducted across the Mereenie field in August 2021.
3	Code cl 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	The Fire Management Plan includes annual review of the fire mapping. Updated fire mapping was reviewed. The risks and mitigations, environmental outcomes, and environmental performance standards in the EMP remain appropriate.
4	Code cl A.3.9(c) Code cl 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 activities on the land. It also requires regular maintenance and annual monitoring of rehabilitated areas.	Not Applicable	No areas were rehabilitated during the reporting period, as all areas continued to remain active.
5	Code cl B.4.13.2(c)	As a minimum, the following must be recorded and reported for each stage: a) total volume of hydraulic fluid pumped, b) quality of water used, and c) typical and maximum concentrations of chemicals or other substances used.	Not Applicable	No hydraulic fracture stimulation and flowback operations conducted.

No	Reference	Requirement	Compliance Status	Evidence
6	Code cl 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.	Compliant	Venting occurs in accordance with Section 418 of the Schedule of Onshore Petroleum Exploration and Production Requirements. Venting is limited to process safety events. Details of venting are tracked and recorded within Daily Production Reports and provided within the Annual Report supplied to DITT.
7	Code cl 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 DITT.	Not Applicable	Integrity program to validate Mereenie well barriers is planned for May and October 21 outside of the reporting period.
8	Code cl 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	No decommissioning of wells in reporting period.
9	Code cl 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	A Groundwater Management Plan covering activities in the Amadeus Basin was submitted to DEPWS in February 2021 as part of wider Central Petroleum operations and exploration. The plan was developed in alignment with the principles of the Preliminary Guideline: Groundwater monitoring bores for exploration petroleum wells in the Betaloo Sub-basin where suitable.
10	Code cl 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	Monitoring and reporting as specified within the Wastewater Management Plan and Spill Management Plan has been implemented.
11	Code cl C.6.1(d)	Wastewater tracking documentation must be reported to the Minister at least annually in accordance with the framework (Spill Management Plan and Wastewater Management Plan) outlined in the EMP	Compliant	All wastewater generated on site was transferred to the Central Treatment Plant and managed in accordance with the Mereenie Field Environmental Management Plan. All wastewater is managed on site and tracked through Daily Production Reports.

No	Reference	Requirement	Compliance Status	Evidence
12	Code cl 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	Fauna interactions with wastewater are monitored via the regular inspection program and recorded within the incident management system. No interactions between fauna and wastewater were recorded for the reporting period.
13	Code cl 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 must be submitted within one month of the significantly higher-level methane event being detected.	Not Applicable	The scope of Section D of the Code of Practice is only for onshore shale gas. Therefore, not applicable to CP conventional gas activities.
14	Code cl D.5.9.2(c)	Emissions from exploration, well construction (including during flowback) and workovers must be measured, and reports submitted.	Not Applicable	The scope of Section D of the Code of Practice is only for onshore shale gas. Therefore, not applicable to CP conventional gas activities
15	Code cl 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	The scope of Section D of the Code of Practice is only for onshore shale gas. Nevertheless, reporting has been conducted where applicable as part of wider reporting programs.
16	Code cl D.6.1	All mandated government reporting is complied with; and all detectable leaks and emissions are reported on an annual basis.	Not Applicable	The scope of Section D of the Code of Practice is only for onshore shale gas. Reporting of greenhouse gas emissions was made to the Clean Energy Regulator in accordance with the <i>National Greenhouse and Energy Reporting Act 2007</i> .
17	Code cl D.6.2(a)	Reports of baseline assessments must be submitted at the conclusion of each field campaign.	Not Applicable	The scope of Section D of the Code of Practice is only for onshore shale gas.
18	Code cl 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	The scope of Section D of the Code of Practice is only for onshore shale gas. Nevertheless, reporting has been conducted where applicable as part of wider reporting programs. Reporting of venting and flaring emissions was made to the Clean Energy Regulator in accordance with the <i>National Greenhouse and Energy Reporting Act 2007</i> .

No	Reference	Requirement	Compliance Status	Evidence
19	PER 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.	Not Applicable	EMP is currently in force. No notification has been made to the Minister that the activity is no longer being carried out.
20	PER 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.	Not Applicable	CP did not have any reportable incidents resulting from activities outlined in the EMP.
21	PER 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	CP did not have any reportable incidents resulting from activities outlined in the EMP.
22	PER 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.	Compliant	All recordable incidents reports were submitted as required for the approved EMP during the reporting period as follows: <ul style="list-style-type: none"> ▪ 13 April 2021 ▪ 08 July 2021 ▪ 15 October 2021 ▪ 11 January 2022
23	PER 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	The regulated activity did not include hydraulic fracturing.

No	Reference	Requirement	Compliance Status	Evidence
24	PER 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	The regulated activity did not include hydraulic fracturing.
25	PER Schedule 1 Item 9(2)	Interest holders are required to conduct future engagement with stakeholders, in accordance with the description in the EMP.	Compliant	CP conducted regular engagement with stakeholders during the reporting period with the details and outcomes recorded in the stakeholder communications log.
26	Schedule 1, item 11(2)	Environmental report to be submitted to DITT / DEPWS annually	Compliant	This document represents the Annual Environmental Performance Report for the Mereenie Field EMP.
27	PER 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 construction, drilling, or seismic surveys.	Not Applicable	Mereenie site is in operation. Notification of works was not required for any activities during the reporting period.
28	NPI Measure 1998 (Cth) s 9 / Waste Management and Pollution Control Act 2003 (NT)	The occupier of each reporting facility is to be required to provide information to the NPI if a reporting threshold for a substance is exceeded	Compliant	A report was submitted in accordance with the requirements of the National Pollutant Inventory in September 2021 for the 2020/21 reporting period.
29	National Greenhouse and Energy Reporting Act 2007 s 19	A registered corporation must provide a report to the Greenhouse and Energy Data Officer relating to the greenhouse gas emissions, energy production and energy consumption from the operation of facilities under the operational control of the corporation and entities that are members of the corporation's group, during that financial year	Compliant	Reporting greenhouse gas emissions for the Mereenie operations was undertaken in accordance with the National <i>Greenhouse and Energy Reporting Act 2007</i> and was submitted to the Clean Energy Regulator in September 2021 for the FY21 NGERs reporting period.

3.0 Summary of Compliance

3.1 Overview of Compliance

Table 3-1 provides a summary of the results of the compliance assessment against the 111 total compliance items.

Table 3-1 Compliance Summary

Compliance Indicator	Number	Percentage
Compliant	78	70%
Non-Compliant	1	1%
Not Applicable	32	32%

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 Environmental Performance Standards

Table 3-2 provides a consolidated summary of the performance standards which were non-compliant during the reporting period.

Table 3-2 Non-compliant Environmental Performance Standards

Description	Potential environmental harm or impact	Corrective actions
Several minor uncontrolled gas releases were identified and reported in the quarterly incident reports. Several of the releases were so small they could not be calculated. All the causes of the incidents were identified and rectified.	Zero environmental harm or impact as: - gas is lighter than air and it dissipated quickly into the atmosphere. - an inspection of the areas and post incident did not identify any further impacts because of the releases.	Work orders were raised to rectify the identified issues Inspection frequency was temporarily increased in and around those facilities.

3.2.2 Mandatory Reporting Requirements

There were no reporting requirements found to be non-compliant.

3.3 Application of Lessons Learned Across CP Onshore Interests

Given the language in the EMP not aligning with current regulations, Central have had to adopt alternative text and measures for the development of 'management objectives' and 'performance standards'. This has resulted in some duplication as well as the adoption of some absolute statements rather than a focus on the environmental outcomes. This approach has resulted in some of the minor compliance issues noted above, none had any significant environmental impact and were quickly dealt with. Therefore, there is an opportunity to consider modifying the current wording of the in the EMPs to better reflect the impact / effect on the environment.