



Integrated Gas

BEETALOO BASIN VELKERRI 76 S2 DRILLING, STIMULATION AND WELL TESTING

Annual Environmental Performance Report

THE THREE WHATS

What can go wrong?
What could cause it to go wrong?
What can I do to prevent it?

Document Details

| Document title | Beetaloo Basin Velkerri 76 S2 Drilling, Stimulation and Well testing Annual Environmental Performance Report | | | |
|-------------------------|--|--|--|--|
| EMPs Covered | Beetaloo Basin Velkerri 76 S2 Drilling, Stimulation and Well testing Program | | | |
| Permit | EP 76 | | | |
| Interest holder details | Origin Energy B2 Pty Ltd ABN 42 105 431 525• Level 28, 180 Ann Street, Brisbane QLD, 4000 | | | |
| | Falcon Oil & Gas Australia Limited ABN 53 132 857 008 | | | |
| Operator details | Origin Energy B2 Pty Ltd ABN 42 105 431 525 | | | |
| Approved by | Tracey Boyes- General Management Beetaloo and Growth Assets | | | |
| Date approved | 23/03/2021 | | | |

Version History

| Rev | Date | Reason for issue | Reviewer/s | Consolidator | Approver |
|-----|------------|---------------------|------------|--------------|----------|
| 0 | 10/03/2021 | Issued for Approval | MH | MK | ТВ |

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 | Signature | | | |
| Name | Tracey Boyes | | | |
| Position | General Management Beetaloo and Growth Assets | | | |
| Date | 21/03/2021 | | | |

Table of contents

| 1. | Introd | duction | | 4 |
|--------|---------|----------------|---|----------|
| | 1.1 | Acronyr | ns and abbreviations | 4 |
| | 1.2 | Backgro | pund | 4 |
| | 1.3 | | ts of Performance Report | 6 |
| | 1.4 | | ment of compliance | 6 |
| | 1.5 | Evidend | ce of compliance | 6 |
| 2. | Demo | onstration | of Compliance | 6 |
| | 2.1 | Minister | rial Condition compliance | 6 |
| | 2.2 | Environ | mental outcomes and performance standards | 9 |
| | 2.3 | Mandat | ory reporting requirements | 13 |
| 3. | Sumr | mary of Co | ompliance | 22 |
| | 3.1 | Overvie | w of Compliance | 22 |
| | 3.2 | Overvie | w of Items Found Not Compliant or Partially Compliant | 22 |
| | | 3.2.1 | Ministerial Approval conditions | 22 |
| | | 3.2.2 3.2.3 | Environmental Performance Standards Regulatory Reporting | 22 22 |
| | 3.3 | | tion of Lessons Learned Across Origin's Onshore Interests | 22 |
| Tahl | la of | Figure | e | |
| Tab | ie oi | i igui e | 5 | |
| Figure | e 1 Bee | etaloo Vel | kerri 76 S2 drilling, stimulation and well testing location | 5 |
| List | of Ta | ables | | |
| Table | 1 sum | mary of a | cronyms and abbreviations | 4 |
| Table | 2 | Complia | ance Descriptors | 6 |
| Table | 3 Mini | sterial cor | ndition summary table | 7 |
| Table | 4 Envi | ironmenta | l outcome and performance standard compliance summary | 9 |
| Table | 5 sum | mary of m | nandatory reporting requirements | 14 |
| Table | 6 | Velkerri | 76 S2 Drilling, stimulation and well testing EMP compliance summary | 22 |

1. Introduction

The Petroleum (Environment) Regulations 2016 (NT) 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 Petroleum (Environment) Regulations 2016 (NT) and any other law in force in the Northern Territory related to conduct of the regulated activity.

This AEPR covers the regulated activities approved under the Beetaloo Basin Velkerri 76 S2 Drilling, Stimulation and Well Testing Program EMP approved 23/12/2019

The AEPR covers the reporting period from the 23/12/2019 to 23/12/2020.

1.1 Acronyms and abbreviations

Table 1 summary of acronyms and abbreviations

| Acronym | Definition |
|---------|--|
| AAPA | Aboriginal Area Protection Authority |
| CMS | Compliance management system |
| СОР | Code of Practice: Onshore Petroleum Activities in the Northern Territory |
| DEPWS | The Department of Environment, Parks and Water Security |
| DITT | Department of Industry, Innovation and Trade |
| FTP | File Transfer Protocol |
| На | Hectare |
| OCIS | Origins Collective Intelligence System used for managing incident data |
| PER | Petroleum (Environment) Regulations |
| WBIV | Well barrier integrity verification |

1.2 Background

No regulated activities have commenced under the Velkerri 76 S2 drilling, stimulation and well testing EMP. Drilling, stimulation and well testing activities are set to commence on the site over the 2021 to 2022 period.

An overview of the location of the Velkerri 76 S2 is provided in Figure 1

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



Figure 1 Beetaloo Velkerri 76 S2 drilling, stimulation and well testing location

1.3 Contents of Performance Report

This AEPR describes the environmental performance of Origin by evaluation of the following:

- compliance with Ministerial approval conditions, for each EMP
- 2. compliance with each environmental outcome and environmental performance standard within the approved EMP's
- compliance with reporting requirements in accordance with the Code and Regulations 3.
- 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 |
| Partially Compliant | Compliant with requirement for most of year, short periods of non-compliance |
| 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:

- internal monitoring of compliance by Origin Energy through internal assurance audits, observations and incident reporting
- 2. outcomes from regulatory inspection/s conducted by the Department of Environment, Parks and Water Security (DEPWS), Petroleum Operations
- recordable and reportable incident reports submitted to DEPWS Petroleum Operations 3.
- reports provided to DEPWS, the Department of Industry, Tourism and Trade (DITT) and other government agencies.

2. **Demonstration of Compliance**

2.1 Ministerial Condition compliance

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

Table 3 Ministerial condition summary table

| No | Ministerial condition | Compliance Status | Evidence |
|----|--|----------------------|--|
| 4 | The Interest Helder must submit to | Status | Monthly reports were provided to |
| 1 | The Interest Holder must submit to DEPWS, an updated timetable for the regulated activity prior to the | | Monthly reports were provided to DEPWS on the following dates: |
| | commencement of the activity and | | • 13/01/2020 |
| | provide an updated timetable to DEPWS each month. The timetable | | • 14/02/2020 |
| | must include dates for the implementation of commitments, | | • 17/03/2020 |
| | development of key documents and | | • 23/04/2020 |
| | associated hold points. | O a mana l'annat | • 04/05/2020 |
| | | Compliant. | • 17/06/2020 |
| | | | • 15/07/2020 |
| | | | • 19/08/2020 |
| | | | • 15/09/2020 |
| | | | • 18/10/2020 |
| | | | • 12/11/2020 |
| | | | • 15/12/2020 |
| 2 | In addition to the minimum methane leak detection inspection frequencies required by the Code, the Interest holder must undertake methane leak detection within seven (7) days of commissioning equipment that is in hydrocarbon service and under pressure and record to an auditable standard | Not applicable | Not applicable- no regulated activities (including drilling of exploration wells) have occurred under this EMP. |
| 3 | 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 | Not Applicable- no regulated activities (including well testing activities) were completed in the reporting time frame |
| 4 | In the event of any accidental release (overflow, failure, spill or leak) to ground of flowback fluid wastewater that exceeds 200 Litres, the interest holder must provide a written report to DENR within 24 hours after the incident was detected. The report must contain: i. Details of the incident specifying | Not applicable | Not Applicable- no regulated activities were completed in the reporting time frame |
| | material facts, actions taken to avoid or mitigate environmental harm ii. The corrective actions taken including the volume and depth of impacted soil removed for appropriate disposal if required; and | | |

| No | Ministerial condition | Compliance Status | Evidence |
|----|---|----------------------|--|
| | iii. Any correction actions proposed to be taken to prevent recurrence of an incident of a similar nature. | | |
| 5 | The interest holder must provide DENR a fortnightly weather forecast for the risk of onset of wet weather for the duration of the regulated activity | Not applicable | Not applicable- no regulated activities have commenced. |
| 6 | The interest holder must provide to DENR a cementing report for the surface casing (13 3/8") through the aquifers, as soon as practicable but not more than 14 days after completion of the cementing job for the Velkerri exploration well EP76 S2-1 | Not applicable | No regulated activities, including drilling, has occurred under this EMP |

2.2 Environmental outcomes and performance standards

Table 4 provides a systematic overview of Origin Energy's compliance with the environmental outcomes and environmental performance standards within the approved EMP.

Table 4 Environmental outcome and performance standard compliance summary

| N0# | Environmental outcomes | Environmental Performance Standard | Compliance | Evidence |
|-----|--|--|----------------|--|
| 1 | Avoid, minimise and control soil erosion and discharge of sediment or soil into waterways or established drainage systems Minimise disturbance of soil, vegetation and drainage during site activities Minimise the creation of dust Prevent the contamination of soil to maintain the viability of soil resources | No vegetation clearing to be undertaken under EMP | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 2 | | No incidence of erosion and sedimentation causing material environmental harm Material environmental harm' is defined in section 117AAB(1) of the Petroleum Act and in section 7.7.1 of the plan. | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 3 | | Areas left safe, stable and non-polluting | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 4 | | No spills of chemicals or wastewater that have resulted in material environmental harm | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 5 | | Return disturbed areas to a stable condition such that they are returned to a condition as close as practicable to the surrounding area (or predisturbance state) within an acceptable time frame. | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 6 | | No offsite releases of wastewater | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 7 | | Zero onsite spills of wastewater >2,500L | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |

| 8 | | Zero wastewater transport spills | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
|----|--|---|----------------|---|
| 9 | | Zero wastewater tank overtopping events | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 10 | Avoid and minimise the potential contamination caused by the discharge of sediment or contaminated storm water | No use of surface water | Not Applicable | No use of surface water as no watering points located within the vicinity (~20km) of the site. |
| 11 | to waterways or established drainage systems. Contain any potential contaminants for | No release of drilling and stimulation wastewater to watercourses or areas surrounding the lease pad | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 12 | treatment or disposal. | No spills or releases of sediment to watercourses causing material environmental harm. Material environmental harm' is defined in section 117AAB(1) of the Petroleum Act and in section 7.7.1 of the plan | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 13 | | No offsite releases of wastewater | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 14 | | Zero onsite spills of wastewater >2,500L | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 15 | | Zero wastewater transport spills Environment Management Plan NT-2050- 15-MP-032 121 | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 16 | | Zero wastewater tank overtopping events | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 17 | To manage exploration activities to prevent over-extraction of groundwater Preserve groundwater quantity for | Groundwater take less than maximum permitted volume of 38ML for the activity | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 18 | Preserve groundwater quantity for livestock supplies (the surrounding water use) | No material impairment of any surrounding pastoralist extraction bores associated with Origin's activities. | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |

| | | Impairment is defined as a 1m drawdown in the static water level of the bore attributable to Origin's activities. | | |
|----|---|---|----------------|--|
| 19 | | No material change in quality attributed to Origin's stimulation activities at the surrounding impact monitoring bore. Material change is defined as a (>1 year) reduction of groundwater quality exceeding the ANZECC Guidelines for Livestock use | Not Applicable | Not applicable- No stimulation activities were undertaken during the reporting period. |
| 20 | Minimise additional disturbance to flora and fauna | No unauthorised clearing of vegetation | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 21 | No disturbance to high conservation areas | No native flora or fauna impacts due to wastewater or chemical exposure | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 22 | Avoid the introduction of weeds Avoid the spread of existing weeds | No introduction or spread of declared weeds resulting from Origin's activities | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 23 | | Six-monthly weed inspections completed on all activity areas- including camp and drill pads, access tracks, borrow pits | Compliant | 6 monthly weed inspections completed on 28 May and October/ November 2020 |
| 24 | Minimise impacts on soil, surface water, groundwater, sensitive habitat and air quality | All waste volumes tracked whilst on-site and in transport | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 25 | Minimise creation of food sources or habitat for pest species | Waste transport certificates available for all wastes generated | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period Not applicable as no regulated activities were undertaken during the reporting period |

| 26 | Minimise waste generation through reduce, reuse, recycle programs | No off-site releases of wastewater or waste products | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
|-----|---|--|----------------|---|
| 27 | | Zero wastewater tank overtopping events | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 28 | | Zero onsite spills of wastewater >2,500L to grade (compacted lease pad surface) | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 29 | | Zero wastewater transport spills | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 30 | | No material environmental harm resulting from spills. Material environmental harm' is defined in section 117AAB(1) of the Petroleum Act | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 31 | Minimise environmental nuisance at sensitive receptors Minimise greenhouse gas emissions | No valid complaints regarding dust / air quality resulting from Origin's activities | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 32 | | All complaints responded to and, where appropriate, corrective action taken | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| 33 | Manage activities in accordance with occupational health and safety guidelines for noise, vibration and light exposure | No valid nuisance-related complaints received from sensitive receptors. | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period. |
| 234 | Minimise nuisance noise and vibration impacts on surrounding communities or exploration workers | All complaints responded to and, where appropriate, corrective action taken | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| | Minimise disruption to fauna and stock | | | |
| 35 | Minimise the risk of causing bushfires from Origin's activities Minimise impacts on environmental habitat and fauna, impacts on | No uncontrolled fires occurring as a result of exploration works | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |

| | stakeholders, impacts on culturally- significant sites, public infrastructure and community lands Ensure proper health and safety plan for activities Prevent accidental fire risk and ensure safe storage of chemicals to prevent fire damage | | | |
|----|---|---|----------------|--|
| 36 | Avoid disturbance or damage to Aboriginal cultural heritage artefacts or sacred sites | No unauthorised activities within or access to a Restricted Work Area | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| | Minimise impacts and disruption to activities of Indigenous stakeholders in culturally-significant areas | No non-compliances with AAPA certificate conditions | | Not applicable as no regulated activities were undertaken during the reporting period |
| 37 | Ensure adequate background information and training is provided to employees and contractors working in culturally-significant areas | | Not Applicable | |
| | Ensure that the health and safety of employees, contractors and the community is not compromised through management of cultural and environmental awareness | | | |
| 38 | Minimise impacts on the local community and services | All complaints are responded to and closed out | Not Applicable | Not applicable as no regulated activities were undertaken during the reporting period |
| | Minimise safety risks to the public and other third-parties Maintain and enhance partnerships with | >60% of addressable spend provided to NT businesses (addressable spend is | | Not applicable as no regulated activities were undertaken during the reporting period |
| 39 | the local community, including using local contractors and maximising opportunities for local employment and training | defined as material and services where an NT service provider exists and is capable of providing the goods and services required). | Not Applicable | |

2.3 Mandatory reporting requirements

Table 5 demonstrates Origin Energy's compliance with reporting requirements in the Code of Practice: Onshore Petroleum Activities in the Northern Territory (Code of Practice) and interest holder's compliance with 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 has been provided. Where relevant, Origin Energy has also confirmed that all records, monitoring or required reporting under the Petroleum (Environment) Regulations 2016 (NT)² has been provided to DEPWS or the relevant NTG agency.

Table 5 summary of mandatory reporting requirements

| No# | Reference | Requirement | Compliance Status | Evidence |
|-----|------------------------------|---|----------------------|---|
| 1 | COP A.3.5 | Geospatial information depicting areas cleared is to be provided to the Minister. | Not Applicable | Not Applicable for Velkerri 76 S2 Drilling, stimulation and well testing EMP as no clearing has occurred under this EMP |
| 2 | COP A.3.6 (b) | Weed management plan developed as part of the EMP must provide for ongoing weed monitoring. | Compliant | Weed management plan developed, with 6 monthly weed monitoring completed. Weed management plan submitted to DEPWS 15/11/2018 Annual weed monitoring report submitted to DEPWS on 20/01/2020 |
| 3 | COP 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 | Fire management plan implemented. Annual fire mapping has been provided to DEPWS on the 20/11/2020 |
| 4 | COP A.3.9(c) COP 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 | Compliant | Rehabilitation management plan developed and submitted to DEPWS 17/04/2020 The rehabilitation requirements are not applicable as all sites remain operational, with rehabilitation activities not undertaken to date. |

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

| No# | Reference | Requirement | Compliance Status | Evidence |
|-----|-------------------|--|----------------------|---|
| | | annual monitoring of rehabilitated areas. | | |
| 5 | COP B.4.13.2(c) | 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): a) total volume of hydraulic fracturing fluid pumped, b) 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 | Velkerri 76 S2 Drilling stimulation and Well testing EMP: Not Applicable as no well hydraulic fracturing activities were completed during the reporting period. |
| 6 | COP 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 | Velkerri 76 S2 Drilling stimulation and Well testing EMP: Not Applicable as no exploration activities were completed during the reporting period. |

| No# | Reference | Requirement | Compliance Status | Evidence | |
|-----|-----------------|--|----------------------|---|--|
| 7 | COP 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 | No exploration activities have been undertaken under the Velkerri 76 S2 Drilling stimulation and Well testing EMP | |
| 8 | COP 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 | Velkerri 76 S2 Drilling stimulation and Well testing EMP Not Applicable as decommissioning activities have not commenced. | |
| 9 | COP 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 | All water monitoring bore completion reports have been submitted to DEPWS, including initial water quality data post completion. Groundwater monitoring has been completed in accordance with the Preliminary guidelines for groundwater monitoring bore for exploration petroleum wells in the Beetaloo sub-basin Groundwater monitoring data provided to DEPWS for bores where access is permitted (including other sites outside the scope of the EMP) on: | |
| 10 | COP C.3(e) | The components of the wastewater management framework, include: Monitor, manage and | Compliant | Velkerri 76 S2 Drilling stimulation and Well testing EMP: Monitoring requirements of wastewater management outline the routine inspections on wastewater tanks, | |

| No# | Reference | Requirement | Compliance Status | Evidence |
|-----|----------------|--|----------------------|--|
| | | report in accordance with the Wastewater Management Plan and Spill Management Plan. | | secondary containment and wastewater storage levels and volumes to be implemented onsite. |
| 11 | COP 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 | No exploration activities or waste has been generated under the Velkerri 76 S2 Drilling stimulation and Well testing EMP |
| 12 | COP 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 | Waste management plan includes a monitoring program to detect impacts from wastewater storages on fauna and human receptors. |
| 13 | COP 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 | Not Applicable to the scope of the AEPR- this condition is associated with production and not exploration. |
| 14 | COP D.5.9.2(c) | Emissions from exploration, well construction (including during flowback) and workovers must be | Not Applicable | Not applicable to the Velkerri 76 S2 Drilling, stimulation and well testing EMP as no regulated activities have commenced during the reporting period. |

| No# | Reference | Requirement | Compliance Status | Evidence |
|-----|----------------|--|----------------------|---|
| | | measured and reports submitted. | | |
| 15 | COP 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 | Not Applicable to the scope of the AEPR as the regulated activities within the EMP's do not include downstream operations. |
| 17 | COP D.6.2(a) | Reports of baseline assessments must be submitted at the conclusion of each field campaign. | Not Applicable | Not Applicable to the scope of the AEPR. CSIRO completed baseline assessments through DITT. |
| 18 | COP 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 | Not applicable to the Velkerri 76 S2 Drilling, stimulation and well testing EMP as no regulated activities have occurred during the reporting period. |
| 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. | Compliant | The EMP has approximately 3.5 years remaining before the next review. |

| No# | Reference | Requirement | Compliance Status | Evidence |
|-----|---------------|--|----------------------|---|
| 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. | Not Applicable | No reportable incidents have been recorded during the reporting period. |
| | | A written report must be provided within 24 hours if the initial report was made orally. | | |
| 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 | No reportable incidents have been recorded for the Velkerri 76 S2 Drilling stimulation and Well testing 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 (unless otherwise agreed). | Compliant | Quarterly recordable incidents reports were provided as follows: Q1 2020 report provided 17/03/2020, with recordable incident summary provided in the monthly report Q2 2020 report provided 17/06/2020 Q3 2020 report provided 15/09/2020 Q4 2020 report provided 15/12/2020 |
| 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 | Velkerri 76 S2 Drilling stimulation and Well testing EMP: Not Applicable as no regulated activities were recorded completed during the reporting period. |

| 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 | Velkerri 76 S2 Drilling stimulation and Well testing EMP: Not Applicable as no hydraulic fracture stimulation or well testing activities completed during the reporting period. |
| 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 | Land access agreements are in place covering all current and future activities. 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. |
| 26 | 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 | Not applicable as activity has not commenced. |
| 27 | 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 | Not applicable | Not applicable as no regulated activities were undertaken during the reporting period. |
| 28 | 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 | Not applicable | Not applicable as no regulated activities were undertaken during the reporting period. |

| No# | Reference | Requirement | Compliance Status | Evidence |
|-----|-----------|--------------------------------|----------------------|----------|
| | | significant environmental harm | | |

3. Summary of Compliance

3.1 Overview of Compliance

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

Table 6 Velkerri 76 S2 Drilling, stimulation and well testing EMP compliance summary

| Compliance Indicator | Number | Percentage |
|----------------------|--------|------------|
| Compliant | 11 | 15% |
| Partially Compliant | 0 | 0% |
| Not Compliant | 0 | 0% |
| Not Applicable | 61 | 85% |

3.2 Overview of Items Found Not Compliant or Partially Compliant

The following sections describe:

- o 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 or partial 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

Not applicable- no non-compliances with Ministerial conditions were recorded.

3.2.2 Environmental Performance Standards

Not applicable- no non-compliances with environmental performance standards were recorded.

3.2.3 Regulatory Reporting

Not applicable- no non-compliances with regulatory reporting standards were recorded.

3.3 Application of Lessons Learned Across Origin's Onshore Interests

There were no regulated activities undertaken in the reporting period under the EMP covered in this AEPR. No applicable lesson learnt were recorded.