



Woodside Solar Facility - Compliance Assessment Report against Ministerial Statement 1212 (3 November 2023 – 2 November 2024)

January 2024
Rev 0

TABLE OF CONTENTS

1.	EXECUTIVE SUMMARY	1
2.	INTRODUCTION	2
3.	SUMMARY OF PROPOSAL’S IMPLEMENTATION STATUS	3
4.	STATEMENT OF COMPLIANCE.....	4
5.	DETAILS OF DECLARED COMPLIANCE STATUS	5
5.1	Environmental Management Plans/Programs	5
5.2	Environmental Monitoring Plans/Programs/Research	5
5.3	Supporting/verifying information/documentation.....	5
5.4	Raw data	5
6.	REFERENCES	6
	Appendix A: Statement of Compliance.....	7
	Appendix B: Audit Table	13
	Appendix C: Geotechnical Investigation Complaine Evidence - Pre-clearance Weed Survey (June 2024) and Pre-Clearance Survey & Fauna Spotting Report (July 2024)....	28

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Controlled Ref No: PA0005RH0000001

Revision: 0

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1. EXECUTIVE SUMMARY

Woodside Energy Ltd (Woodside) was granted Ministerial Approval to construct and operate the Woodside Solar Facility on 3 November 2023 (Ministerial Statement (MS) No.1212).

Woodside did not commence construction of the Solar Facility within this reporting period (i.e. 3 November 2023 to 2 November 2024).

The Woodside Solar Facility is compliant with all conditions of Ministerial Statement No. 1212.

2. INTRODUCTION

Woodside Energy Ltd (Woodside) was granted Ministerial Approval to construct the Woodside Solar Facility on 3 November 2023 (Ministerial Statement No.: 1212 (MS1212)). The Solar Facility is located approximately 15 kilometres (km) southwest of Karratha, Western Australia (WA) and will generate electricity from a large scale solar photovoltaic farm (Solar PV Farm), complemented by energy storage (Battery Storage) infrastructure. The Solar Facility will supply renewable energy for use by industrial customers on the Burrup Peninsula.

Condition D2-1 of MS1212 states “*The proponent must provide an annual Compliance Assessment Report to the CEO for the purpose of determining whether the implementation conditions are being complied with.*” This Compliance Assessment Report fulfills this requirement for the period 3 November 2023 to 2 November 2024.

The scope of this Compliance Assessment Report also encompasses any activity, or conditions described in supporting Conditional Management Plans and procedures included from MS1212, implemented during the reporting period.

Woodside prepared a Compliance Assessment Plan (CAP) in accordance with “Post Assessment Guideline for Preparing a Compliance Assessment Plan, Post Assessment Guideline No. 2” (OEPA, 2012a). The Woodside Solar Facility CAP was reviewed by the Department of Water and Environmental Regulation (DWER) and determined to meet the requirements of Condition D2-5 and D2-6 of MS1212 (27 September 2024 – DWERDT927375).

This Compliance Assessment Report has been prepared in accordance with that plan and “Post Assessment Guideline for Preparing a Compliance Assessment Report, Post Assessment Guideline No. 3” (OEPA, 2012b).

The Audit Table Provided in Appendix B has been prepared in accordance with “Post Assessment Guideline for Preparing an Audit Table, Post Assessment Guideline No. 1” (OEPA, 2012c).

3. SUMMARY OF PROPOSAL'S IMPLEMENTATION STATUS

During the reporting period Woodside:

- Conducted a weed survey as required in the Weed Management Plan (PA1000RH0000004) (Rev 1);
- Conducted a geotechnical survey to assess the conditions on site between 11 - 14 June 2024, which provided preliminary geotechnical design parameters and recommendations for an earthwork's strategy for construction. The geotechnical survey involved excavation of 16 test pits which were backfilled on completion.

Woodside did not commence construction of the Woodside Solar Facility during the reporting period. Woodside is compliant with all conditions set out in MS1212 and associated environmental management commitments for the Woodside Solar Facility.

4. STATEMENT OF COMPLIANCE

The Statement of Compliance is included in Appendix A.

5. DETAILS OF DECLARED COMPLIANCE STATUS

Woodside is in compliance with the conditions of MS1212. There have been no non-compliances or potential non-compliances.

Evidence of compliance with the conditions of MS1212 have been described in the audit table in Appendix B.

5.1 Environmental Management Plans/Programs

The status of the environmental management plans and programs required by MS 1212 is as follows:

- Woodside Solar Facility Environment Management Plan (PA1000RH0000003) (Rev 8) – Updated and approved by EPA 22 April 2024.
- Woodside Solar Facility Weed Management Plan (PA1000RH0000004) (Rev 1) – Implemented (Baseline Weed Survey for Phase 1 completed June 2024).
- Impact Reconciliation Procedure (PA1000RH0000007) (Rev 5) – Submitted to Department of Water and Environmental Regulation (DWER) and approved by the CEO on 11 April 2024. Evidence of this approval is provided in Appendix C.
- Woodside Solar Facility Waste Minimisation, Decommissioning and Rehabilitation Environmental Management Plan (PA1000RH0000010)¹.

5.2 Environmental Monitoring Plans/Programs/Research

MS1212 does not require the implementation of specific monitoring plans, programs or research beyond monitoring required as part of the Environmental Management Plans described above in Section 5.1.

5.3 Supporting/verifying information/documentation

A range of supporting/verifying information was utilised to prepare this CAR, including:

- Appendix C: Geotechnical Investigation Compliance Evidence; Pre-Clearance Weed Survey (June 2024) and Pre-Clearance Survey and Fauna Spotting Report (July 2024).
- Environment Online reference numbers.

5.4 Raw data

A data package has been provided with this Compliance Assessment Report (CAR) which includes:

- Geotechnical Survey Test-Pit Locations (excel format)
- Fauna Management Report Data (excel format).

¹ This plan has not been submitted for assessment and is required within 5 years of commencement of the Proposal (ie Nov 2028).

6. REFERENCES

Office of the Environmental Protection Authority (OEPA). 2012a. Post Assessment Guideline for Preparing a Compliance Assessment Plan, Post Assessment Guideline No. 2. Office of the Environmental Protection Authority, August 2012.

Office of the Environmental Protection Authority (OPEA). 2012b. Post Assessment Guideline for Preparing a Compliance Assessment Report, Post Assessment Guideline No. 3. Office of the Environmental Protection Authority, August 2012.

Office of the Environmental Protection Authority (OPEA). 2012c. Post Assessment Guideline for Preparing an Audit Table, Post Assessment Guideline No. 1. Office of the Environmental Protection Authority, August 2012.

Office of the Environmental Protection Authority (OPEA). 2018. Post Assessment Form for a Statement of Compliance. Office of the Environmental Protection Authority, 2018.

APPENDIX A: STATEMENT OF COMPLIANCE

Statement of Compliance

1. PROPOSAL AND PROPONENT DETAILS

Proposal Title	<i>Woodside Solar Facility</i>
Statement Number	1212
Proponent Name	<i>Woodside Energy Ltd</i>
Proponent's Australian Company Number (where relevant)	005 482 986

2. STATEMENT OF COMPLIANCE DETAILS

Reporting Period	3/11/23 to 2/11/24
------------------	--------------------

Implementation phase(s) during reporting period (please tick ✓ relevant phase(s))							
Pre-construction	<input checked="" type="checkbox"/>	Construction	<input type="checkbox"/>	Operation	<input type="checkbox"/>	Decommissioning	<input type="checkbox"/>

Audit Table for Statement addressed in this Statement of Compliance is provided at Attachment:	2 (Appendix B)
<p>An audit table for the Statement addressed in this Statement of Compliance must be provided as Attachment 2 to this Statement of Compliance. The audit table must be prepared and maintained in accordance with the Department of Water and Environmental Regulation (DWER) <i>Post Assessment Guideline for Preparing an Audit Table</i>, as amended from time to time. The 'Status Column' of the audit table must accurately describe the compliance status of each implementation condition and/or procedure for the reporting period of this Statement of Compliance. The terms that may be used by the proponent in the 'Status Column' of the audit table are limited to the Compliance Status Terms listed and defined in Table 1 of Attachment 1.</p>	

Were all implementation conditions and/or procedures of the Statement complied with within the reporting period? (please tick ✓ the appropriate box)			
No (please proceed to Section 3)	<input type="checkbox"/>	Yes (please proceed to Section 4)	<input checked="" type="checkbox"/>

3. DETAILS OF NON-COMPLIANCE(S) AND/OR POTENTIAL NON-COMPLIANCE(S)

The information required Section 3 must be provided for each non-compliance or potential non-compliance identified during the reporting period covered by this Statement of Compliance.

Non-compliance/potential non-compliance 6-1

Which implementation condition or procedure was non-compliant or potentially non-compliant?
Was the implementation condition or procedure non-compliant or potentially non-compliant?
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?

Was this non-compliance or potential non-compliance reported to the Chief Executive Officer, DWER?	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DWER verbally Date _____ <input type="checkbox"/> Reported to DWER in writing Date _____	<input type="checkbox"/> No

What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)
What was the cause(s) of the non-compliance or potential non-compliance?
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure: <ul style="list-style-type: none"> • in the reporting period addressed in this Statement of Compliance; and • as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance. (the above information may be provided as an attachment to this Statement of Compliance)

For additional non-compliance or potential non-compliance, please duplicate this page as required.

4. PROPONENT DECLARATION

I, Michael Gibson; Head of the Woodside Power Project, declare that I am authorised on behalf of Woodside Energy Ltd to submit this form and that the information contained in this form is true and not misleading.

Signature:..... Date:.....

Please note that:

- it is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give or cause to be given information that to his knowledge is false or misleading in a material particular; and
- the Chief Executive Officer of the DWER has powers under section 47(2) of the *Environmental Protection Act 1986* to require reports and information about implementation of the proposal to which the statement relates and compliance with the implementation conditions.

5. SUBMISSION OF STATEMENT OF COMPLIANCE

One hard copy and one electronic copy (preferably PDF on CD or thumb drive) of the Statement of Compliance are required to be submitted to the Chief Executive Officer, DWER, marked to the attention of Manager, Compliance (Ministerial Statements).

Please note, the DWER has adopted a procedure of providing written acknowledgment of receipt of all Statements of Compliance submitted by the proponent, however, the DWER does not approve Statements of Compliance.

6. CONTACT INFORMATION

Queries regarding Statements of Compliance, or other issues of compliance relevant to a Statement may be directed to Compliance (Ministerial Statements), DWER:

Manager, Compliance (Ministerial Statements)

Department of Water and Environmental Regulation

Postal Address: Locked Bag 10
Joondalup DC
WA 6919

Phone: (08) 6364 7000

Email: compliance@dwer.wa.gov.au

7. POST ASSESSMENT GUIDELINES AND FORMS

Post assessment documents can be found at www.epa.wa.gov.au

ATTACHMENT 1

Table 1 Compliance Status Terms

Compliance Status Terms	Abbrev	Definition	Notes
Compliant	C	Implementation of the proposal has been carried out in accordance with the requirements of the audit element.	This term applies to audit elements with: <ul style="list-style-type: none"> ongoing requirements that have been met during the reporting period; and requirements with a finite period of application that have been met during the reporting period, but whose status has not yet been classified as 'completed'.
Completed	CLD	A requirement with a finite period of application has been satisfactorily completed.	This term may only be used where: <ul style="list-style-type: none"> audit elements have a finite period of application (e.g. construction activities, development of a document); the action has been satisfactorily completed; and the DWER has provided written acceptance of 'completed' status for the audit element.
Not required at this stage	NR	The requirements of the audit element were not triggered during the reporting period.	This should be consistent with the 'Phase' column of the audit table.
Potentially Non-compliant	PNC	Possible or likely failure to meet the requirements of the audit element.	This term may apply where during the reporting period the proponent has identified a potential non-compliance and has not yet finalized its investigations to determine whether non-compliance has occurred.
Non-compliant	NC	Implementation of the proposal has not been carried out in accordance with the requirements of the audit element.	This term applies where the requirements of the audit element are not "complete" have not been met during the reporting period.
In Process	IP	Where an audit element requires a management or monitoring plan be submitted to the DWER or another government agency for approval, that submission has been made and no further information or changes have been requested by the DWER or the other government agency and assessment by the DWER or other government agency for approval is still pending.	The term 'In Process' may not be used for any purpose other than that stated in the Definition Column. The term 'In Process' may not be used to describe the compliance status of an implementation condition and/or procedure that requires implementation throughout the life of the project (e.g. implementation of a management plan).



APPENDIX B: AUDIT TABLE

Note:

- Phases that apply in this table = Pre-Construction, Construction, Operation, Overall (several phases).
- This audit table is a summary and timetable of conditions and commitments applying to this proposal. Refer to the Minister's Statement for full detail/precise wording of individual elements.
- Code prefixes: M = Minister's condition,
- Acronyms list: CAP = Compliance Assessment Plan; CAR = Compliance Assessment Report; CEO = Chief Executive Officer of OEPA; EMP = Environmental Management Plan, and PEOF = Pilbara Environmental Offsets Fund.
- Compliance Status: C = Compliant, CLD = Completed, NA = Not Audited, NC = Non – compliant, NR = Not Required at this stage. Please note the terms VR = Verification Required and IP = In Process are only for OEPA use.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information		
1212: MA1-1	Limitations and Extent of Proposal	The proponent must ensure that the proposal is implemented in such a manner that the limitations or maximum extents / capacities / ranges within the table below are not exceeded, concerning to Figure 1 of MS1212.	Implement proposal such that the Limits and Extents in condition A1-1 are not exceeded.	CAR (including compliance monitoring report). Approved Stage Disturbance Footprint Report.	Overall	Life of proposal.	C	Staged Disturbance Footprint Report – Stage 1 (PA1000RF0000002) demonstrates details the proposed clearing for Stage 1 and confirm proposed clearing is in compliance with 1212:MA1-1. This report was submitted to DWER on 17 April 2024. Geotechnical Survey Test-Pit Locations (excel format) and the Testpit locations shapefile shows compliance with the approved Staged Disturbance Footprint Report – Stage 1 which confirm the proposal is in compliance with 1212:MA1-1.		
		Proposal element							Location	Maximum extent
		Physical elements								
		Development envelope							Figure 1	1,101.26 ha
		Disturbance footprint, including areas subject to shading from infrastructure							Within the development envelopes shown in Figure 1	No more than 878 ha within a 1,101.26 ha development envelope
		Direct disturbance of native vegetation							Within the development envelopes shown in Figure 1	Clearing of no more than 878 ha of vegetation in 'Good' to 'Excellent' condition.
		Operational elements								
		Solar PV farm							Figure 1	Up to 500 MW (alternating current) of electricity generated from up to 1,000,000 solar panels and associated infrastructure, including battery storage.
		SPSI							Figure 1	A battery energy storage system, electrical substation, and associated infrastructure.
		Timing elements								
Proposal life	-	Up to 70 years								



1212: MB1-1	Disturbance Footprint Report	The proponent must prepare and submit a Staged Disturbance Footprint Report to the CEO that identifies the final disturbance footprint for the relevant stage of the proposal prior to construction activities. The Staged Disturbance Footprint Report may be submitted in stages and must demonstrate, at every stage, that the maximum clearing extents specified under condition A1-1 and achievement of environmental outcomes specified under conditions B2-1 and B3-1 will be met for all stages combined.	Submission of Staged Disturbance Footprint Report to the CEO prior to construction.	Correspondence of Staged Disturbance Footprint Report submission or Environment Online reference number.	Pre-construction for each stage.	Prior to construction activities for each stage.	C	Staged Disturbance Footprint Report – Stage 1 submitted April 2024 (PA1000RF0000002). Environment Online Reference Number - APP-0025292
1212: MB1-2	Disturbance Footprint Report	The proponent must ensure each Staged Disturbance Footprint Report identifies protected areas within the development envelope, which include native fauna habitat corridors, northern quoll critical habitat, areas supporting large trees of <i>Acacia coriacea</i> and <i>A. xiphophylla</i> and Aboriginal cultural heritage sites which will not be disturbed or subjected to adverse impacts. The total protected areas shall be a minimum of 97.6 ha across all stages.	Comply with condition B1-2. Submission of Staged Disturbance Footprint Report.	Approved Stage Disturbance Footprint Report.	Overall	Life of proposal.	C	Staged Disturbance Footprint Report – Stage 1 (PA1000RF0000002) demonstrates compliance with 1212: MB1-2.
1212: MB1-3	Disturbance Footprint Report	The proponent must ensure there is no disturbance of land that has not been surveyed as at 27 July 2023 until it has been surveyed consistent with EPA guidance and the survey results confirm it is not subject to any vegetation, communities or habitat restrictions referenced in condition B2 or condition B3.	Comply with condition B1-3.	CAR (including compliance monitoring report). Approved Disturbance Footprint Report. Biological survey report (if applicable).	Overall	Life of proposal.	C	No disturbance of land that has not been surveyed as at 27 July 2023 has occurred. Staged Disturbance Footprint Report – Stage 1 (PA1000RF0000002) demonstrates compliance with 1212: MB1-3. Geotechnical Survey Test-Pit Locations (excel format) and the Testpit locations shapefile shows compliance with the approved Staged Disturbance Footprint Report – Stage 1 which confirm the proposal is in compliance with 1212:MB1-3. On 22 April 2024 an additional survey was conducted of the 1 ha access road to the Solar Facility Site which forms part of the unsurveyed area referenced within 1212:MB1-3. Survey was conducted consistent with EPA guidance and the survey results confirmed this area was not subject to any vegetation, communities or habitat restrictions referenced in condition B2 or condition B3.
1212: MB2-1	Vegetation	The proponent must ensure implementation of the proposal achieves the following environmental outcomes: (1) disturb no more than 40 ha of the 'Roebourne Plains coastal grasslands with gilgai microrelief on deep cracking clays' priority ecological community, (2) disturb no more than 526.6 ha of the 'Horseflat land system of the	Comply with condition B2-1. Preparation of a Staged Disturbance Footprint Report prior	CAR (including compliance monitoring report). Approved Staged Disturbance Footprint	Overall	Life of proposal.	C	Staged Disturbance Footprint Report – Stage 1 (PA1000RF0000002) demonstrates compliance with 1212: MB2-1.

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		Roebourne plains' priority ecological community', (3) no disturbance to large trees of <i>Acacia coriacea</i> and <i>A. xiphophylla</i> on larger drainage lines (Vegetation Type 34), (4) no disturbance or adverse impacts to native vegetation identified in protected areas in the Staged Disturbance Footprint Report, and (5) no adverse impacts to native vegetation within twenty (20) m of the boundary of the development envelope.	to construction to confirm compliance with Condition B2-1(4).	Report.				Geotechnical Survey Test-Pit Locations (excel format) and the Test pit locations shapefile shows compliance with the approved Staged Disturbance Footprint Report – Stage 1 which confirm the proposal is in compliance with 1212:MA1-1.
1212: MB2-2	Vegetation	The proponent must implement the proposal to achieve the following environmental objectives: (1) no adverse impacts to flora and vegetation from the introduction or spread of environmental weeds compared with pre-construction condition outside of the development envelopes; and (2) and no adverse impacts to flora and vegetation outside of the development envelopes through generation of dust from construction activities.	Implement Weed Management Plan. Implement Environment Management Plan	CAR (including compliance monitoring report).	Overall	Life of proposal	C	Environment Management Plan (Rev 8) approved by EPA 22 April 2024. Environmental Online Reference Number APP- 0025042. Requirements of the Environment Management Plan (Rev 8) and Weed Management Plan (Rev 8) were implemented during the geotechnical survey scope.
1212: MB2-3	Vegetation	The proponent must implement the Woodside Solar Facility Weed Management Plan (May 2023, Rev 1, PA1000RH0000004) with the purpose of ensuring the flora and vegetation environmental objective in condition B2-2(1) is achieved.	Comply with condition 1212: B2-3.	CAR	Overall	Life of proposal.	C	Weed Management Plan (Rev 8) requirements have been implemented. Weed survey report (Append C).
1212: MB2-4	Vegetation	The proponent must review and update the Woodside Solar Facility Environment Management Plan (May 2023, Rev 4, PA1000RH0000003) to ensure it demonstrates how achievement of the vegetation environmental outcomes in condition B2-1 will be monitored and substantiated, and how the environmental objective in condition B2-2(2) will be achieved and submit it to the CEO.	Updated Environment Management Plan submitted to the CEO.	Written correspondence of submission of plan or Environment Online reference number.	Overall	Prior to construction activities	C	Woodside Solar Facility Environment Management Plan has been updated to include relevant changes (Rev 8, 19 April 2024). Applicable Environmental Online Reference Number APP 0025042.
1212: MB2-5	Vegetation	The proponent must revegetate all areas of native vegetation cleared but not reasonably expected to be required for ongoing operations within twenty-four (24) months after completion of each stage of construction activities until areas of revegetation achieve a coverage and composition of locally native species such that weed cover and abundance is no greater than undisturbed reference sites, and soil is protected from erosion.	Revegetation activities completed within 24 months of completion of each stage of construction.	Records of revegetation activities. CAR (including compliance monitoring report).	Overall	Within 24 months of completion of each stage of construction activities until revegetation achieves a coverage and composition of locally native species such that weed cover and abundance is no greater than reference sites, and soil is protected from erosion.	NR	Not required at this stage as Stage 1 of construction has not been completed.



ATTACHMENT 2

PROPOSAL: Woodside Solar Facility
STATEMENT: 1212

1212: MB3-1	Terrestrial Fauna	The proponent must implement the proposal to meet the following environmental outcomes: (1) disturb no more than: (a) 40.4 ha of minor drainage lines habitat type, (b) 104.2 ha of hummock grassland on rocky plain (Triodia on stony soils) habitat type, and (c) 733.4 ha of tussock grassland on cracking clays habitat type. (2) no disturbance to the short range endemic invertebrate granite habitat type, (3) no disturbance to northern quoll (<i>Dasyurus hallucatus</i>) critical habitat, (4) no disturbance or adverse impacts to native fauna habitat identified in protected areas in the Staged Disturbance Footprint Report.	Comply with condition B3-1. Preparation of a Staged Disturbance Footprint Report prior to construction to confirm compliance with Condition MB3-1(4).	CAR (including compliance monitoring report). Approved Staged Disturbance Footprint Report.	Overall	Life of proposal.	C	Staged Disturbance Footprint Report – Stage 1 (PA1000RF0000002) demonstrates compliance with 1212: MB3-1. Geotechnical Survey Test-Pit Locations (excel format) and the Test pit locations shapefile shows compliance with the approved Staged Disturbance Footprint Report – Stage 1 which confirm the proposal is in compliance with 1212:MB3-1.
1212: MB3-2	Terrestrial Fauna	The proponent must implement the proposal to achieve the following environmental objectives: (1) minimise the risk of physical injury or mortality from construction activities and operations on native fauna; (2) minimise the risk of adverse impacts and indirect disturbance to native fauna including physical injury or mortality, behavioural changes, and health impacts; and (3) minimise the risk of adverse impacts to migratory and raptorial birds from collisions with infrastructure.	Implement Environment Management Plan.	CAR. Construction / Site records.	Overall	Life of proposal.	C	Woodside Solar Facility Environmental Management Plan (Rev 8, 19 April 2024) has been implemented.
1212: MB3-3	Terrestrial Fauna	The proponent must review and update the Woodside Solar Facility Environment Management Plan (May 2023, Rev 4, PA1000RH0000003) to: (1) include the results and management actions for threatened fauna recorded in the development envelopes from the Proposed Woodside Solar Farm Targeted Fauna Survey (July 2023, Rev B, Biota), and (2) to ensure it demonstrates how achievement of the terrestrial fauna environmental outcomes in condition B3-1 will be monitored and substantiated, and how the environmental objectives in condition B3-2 will be achieved, and submit it to the CEO.	Updated Environment Management Plan submitted to the CEO.	Written correspondence of submission of plan or Environment Online reference number.	Overall	Ongoing	C	Woodside Solar Facility Environment Management Plan has been updated to include relevant changes (Rev 8, 19 April 2024).
1212: MB3-4	Construction Activities	Prior to ground disturbing activities the proponent must undertake the following actions: (1) within seven (7) days prior to clearing, using a licenced fauna spotter, undertake pre-clearance surveys to detect presence of northern quoll (<i>Dasyurus hallucatus</i>) within clearing areas, and (2) ground disturbing activities shall not commence until either: (a) the individual has been relocated by the fauna spotter, or (b) the individual has been observed by the fauna spotter to have moved on from the area to adjoining suitable habitat, and (c) the fauna spotter considers that the individual no longer occurs in the area.	Pre-clearance fauna survey. Fauna spotter present during ground disturbing activities.	Fauna spotter records (confirming pre-clearance requirements met). Fauna Management Report.	Construction	Prior to ground disturbing activities and within 7 days prior to clearing for each stage.	C	Actions undertaken during geotechnical survey as evidenced by the Pre-clearance Survey & Fauna Spotting Report (Append C).
1212: MB3-5	Construction Activities	The proponent must undertake the following actions during construction activities: (1) ensure the presence of fauna spotters during all ground disturbing activities, (2) construction activities must cease in any area where northern quoll (<i>Dasyurus hallucatus</i>) are identified until: (a) the individual has been relocated by a fauna spotter, or (b) the individual has been observed by the fauna spotter to have	Fauna spotter present during ground disturbing activities.	Fauna spotter records. Fauna Management Report.	Construction	During construction activities.	C	Actions undertaken during geotechnical survey as evidenced by the Pre-clearance Survey & Fauna Spotting Report (Append C).



ATTACHMENT 2

PROPOSAL: Woodside Solar Facility
STATEMENT: 1212

		moved on from the area to adjoining suitable habitat, and (c) the fauna spotter considers that the individual no longer occurs in the area.						
1212: MB3-6	Construction Activities	The proponent must produce and provide a report on fauna management no later than sixty (60) days after the completion of each stage of construction activities to the CEO. The report shall include the following: (1) details of fauna inspections, (2) dates and details of clearing activities for each area inspected, (3) the number and type of fauna removed and relocated and actions taken, (4) details of the fauna spotter commissioned, (5) results of the pre-clearance surveys, and (6) vertebrate fauna mortalities.	Fauna Management Report provided to CEO.	Written correspondence of submission of Fauna Management Report or Environment Online reference number.	Operation	No later than 60 days after the completion of construction activities.	NR	Actions undertaken during geotechnical survey as evidenced by the pre-clearance Survey and Fauna Spotting Report (Append C).
1212: MB3-7	Construction Activities – Trench Inspection	The proponent must undertake the following actions during construction activities: (1) clear trapped vertebrate fauna from within open trenches, using a suitably trained and licensed fauna spotter: (a) at least twice daily, with the first daily clearing to be completed no later than three (3) hours after sunrise and the second clearing to be completed between the hours of 3:00 pm and 6:00 pm of that same day, unless otherwise agreed to by the CEO, and (b) within one (1) hour prior to backfilling of trenches. (2) ensure open trench lengths shall not exceed a length capable of being inspected and cleared by the requirements set out in condition B3-7(1), (3) ensure ramps providing egress points and/or fauna refuges providing suitable shelter from the sun and predators for trapped vertebrate fauna are to be placed in the trench at intervals not exceeding fifty (50) metres, (4) in the event of substantial rainfall, and following the clearing of vertebrate fauna from the trench, pump out any pooled water in the open trench and discharge it to adjacent vegetated areas in a manner that does not cause erosion, (5) produce and provide a report on fauna management no later than sixty (60) days after the completion of each stage of construction activities to the CEO. The report shall include the following: (a) details of fauna inspections, (b) dates of trenching activities for each trench inspected, (c) the number and type of fauna cleared from trenches and actions taken, (d) details of the fauna spotter commissioned, and (e) vertebrate fauna mortalities.	Fauna spotter present during ground disturbing activities (trenching). Fauna Management Report provided to CEO. Compliance with condition B3-7.	Site inspection records. Written correspondence of submission of Fauna Management Report or Environment Online reference number.	Construction	At least twice daily, with the first clearing to be completed no later than 3 hours after sunrise between 3:00 pm and 6:00 pm of the same day and within 1 hour of backfilling of trenches. Fauna management report provided no later than 60 days after the completion of each stage.	NR	No construction activities have been undertaken to date. No trenching work has been undertaken to date.
1212: MB4-1	Aboriginal Cultural Heritage	The proponent must implement the proposal to meet the following environmental outcomes: (1) no disturbance to heritage sites ID 16590, 16591, 21673 and 21674 and any heritage sites found in pre-clearance surveys, including no disturbance in a buffer of fifty (50) m around any heritage site, (2) no significant adverse impacts to Aboriginal cultural heritage, including areas that are outside the development envelope where Aboriginal cultural heritage may be directly affected, and (3) subject to reasonable health and safety requirements, no interruption of ongoing access to land utilised for traditional use or	Implement the Management Plans. Preparation of Staged Disturbance Report including heritage clearance zones.	CAR (including compliance monitoring report). Approved Staged Disturbance Footprint Report.	Overall	Life of proposal.	C	Staged Disturbance Footprint Report – Stage 1 (Rev 1, March 2024) includes heritage clearance zones. Geotechnical Survey Test-Pit Locations (excel format) and the Test pit locations shapefile shows compliance with the approved Staged Disturbance



		custom by the Ngarluma People.						Footprint Report – Stage 1 which confirm the proposal is in compliance with 1212:MB4-1.
1212: MB4-2	Aboriginal Cultural Heritage	The proponent must provide the Ngarluma People with the opportunity to be consulted on the Staged Disturbance Footprint Report under condition B1 and Waste Minimisation, Decommissioning and Rehabilitation environmental management plan under condition B5, at least three (3) months before they are submitted to the CEO.	Consult with Ngarluma People during preparation of Staged Disturbance Footprint Reports and the Waste Minimisation, Decommissioning and Rehabilitation environmental management plan.	Written correspondence of consultation with the Ngarluma People.	Overall	At least 3 months prior to submission of Stage Disturbance Footprint Reports and the Waste Minimisation, Decommissioning and Rehabilitation environmental management plan.	C	Section 2.2.2 of the Stage Disturbance Report (PA1000RF000002) details consultation with NAC.
1212: MB5-1	Waste Minimisation, Decommissioning and Rehabilitation	The proponent must implement the proposal to ensure the following environmental outcomes are achieved: (1) waste minimisation opportunities are reviewed and implemented throughout the life of the proposal, including review of life cycle of waste from replacement of solar panels and other infrastructure; (2) rehabilitated landforms are stable and do not cause pollution or environmental harm; (3) rehabilitated areas are capable of sustaining achievement of the other environmental outcomes in Part B during the life of the proposal; (4) rehabilitated vegetation is self-sustaining; and (5) rehabilitated areas are consistent with species diversity and abundance consistent with native vegetation adjacent to the proposal and achieves a cover and composition of locally native species such that weed cover and abundance is no greater than undisturbed reference sites, and soil is protected from erosion.	Implement approved Waste Minimisation, Decommissioning and Rehabilitation Environmental Management Plan.	CAR (including compliance monitoring report).	Overall	Life of proposal.	NR	Construction activities have not yet commenced. Approved Waste Minimisation, Decommissioning and Rehabilitation Environmental Management Plan not yet required as per MS1212:MB5-2.
1212: MB5-2	Waste Minimisation, Decommissioning and Rehabilitation	Within five (5) years of the commencement of the proposal, and every five (5) years after, the proponent must prepare a Waste Minimisation, Decommissioning and Rehabilitation environmental management plan that satisfies the requirements of condition C4 and demonstrates how decommissioning and rehabilitation environmental outcomes in condition B5-1 will be achieved, monitored and substantiated, and submit it to the CEO.	Submission of Waste Minimisation, Decommissioning and Rehabilitation environmental management plan.	Written correspondence of submission of report or Environment Online reference number.	Overall	Within 5 years of the commencement of the proposal and every 5 years after that.	NR	Woodside Solar Facility Waste Minimisation, Decommissioning and Rehabilitation Environmental Management Plan (PA1000RH0000010) submitted to DCCEEW 12/08/2023 and amended 27/11/2023. It has been less than 5 years since the proposal began, therefore approval for this plan by CEO is not yet required.
1212: MB6-1	Environmental Performance Reporting	The proponent must submit an Environmental Performance Report to the CEO every five (5) years.	Environmental Performance Report submitted to CEO.	Written correspondence to the CEO or Environment Online reference number.	Overall	Every 5 years.	NR	Not required during 2023/2024 Compliance Reporting Period.
1212: MB6-2	Environmental Performance Reporting	The first Environmental Performance Report shall be submitted within three (3) months of the expiry of the five (5) year period commencing from the date of substantial commencement of the proposal, or such other time as may be approved by the CEO.	Environmental Performance Report submitted to CEO.	Written correspondence to the CEO or Environment Online	Overall	Within 3 months of the expiry of the 5 year period commencing from	NR	Not required during 2023/2024 Compliance Reporting Period.



ATTACHMENT 2

PROPOSAL: Woodside Solar Facility
STATEMENT: 1212

				reference number.		the date of substantial commencement of the proposal.		
1212: MB6-3	Environmental Performance Reporting	Each Environmental Performance Report shall report on proposal emissions and proposal impacts on the following environmental values: (1) state of flora and vegetation, (2) state of terrestrial fauna, (3) state of Aboriginal cultural heritage, and (4) state of the holistic environment.	Compliance with condition B6-3.	Environmental Performance Report.	Overall	Ongoing	NR	Not required during 2023/2024 Compliance Reporting Period.
1212: MB6-4	Environmental Performance Reporting	The Environmental Performance Report must include: (1) a comparison of the environmental values identified in condition B6-3 at the end of the five (5) year period; against the state of each environmental value at the beginning of the 5-year period, (2) a comparison of the environmental values identified in condition B6-3 at the end of the five (5) year period; against the state of the environmental values identified in first Environmental Performance Report submitted in accordance with condition B6-1, (3) proposed adaptive management and continuous improvement strategies, and (4) the Environmental Performance Report may be in whole or part prepared in conjunction with other proponents where there are cumulative impacts from their proposals.	Compliance with condition B6-4.	Environmental Performance Report.	Overall	At the end of the 5 year period.	NR	Not required during 2023/2024 Compliance Reporting Period.
1212: MB6-5	Environmental Performance Reporting	Each Environmental Performance Report must be published on the proponent's website and provided to the CEO in electronic form suitable for on-line publication by the DWER within twenty (20) business days of being provided to the CEO.	Submission of Environmental Performance Report on the proponent's website and to CEO in electronic form.	Evidence that Environmental Performance Report published on Proponents website. Written correspondence to CEO or Environment Online reference number.	Overall	Within 20 business days of being provided to the CEO.	NR	Not required during 2023/2024 Compliance Reporting Period.
1212: MB7-1	Pilbara Environmental Offsets Fund	The proponent must contribute funds to the Pilbara Environmental Offsets Fund calculated pursuant to condition B7-2, to achieve the objective of counterbalancing the significant residual impacts by the proposal to: (1) 'Good' to 'Excellent' condition native vegetation, (2) 'Roebourne Plains coastal grasslands with gilgai microrelief on deep cracking clays' priority ecological community', (3) 'Horseflat land system of the Roebourne Plains' priority ecological community', and (4) northern quoll (<i>Dasyurus hallucatus</i>) supporting habitat, Pilbara leaf-nosed bat (<i>Rhinonictis aurantia</i>) supporting habitat, ghost bat (<i>Macroderma gigas</i>) supporting habitat, Pilbara olive python (<i>Liasis olivaceus barroni</i>) supporting habitat and grey falcon (<i>Falco hypoleucos</i>) supporting habitat, subject to any reduction approved by the CEO under condition B7-8.	Compliance with condition B7-1.	Impact Reconciliation Reports. Evidence of payment of funds (e.g. payment receipt) to the Pilbara Environmental Offsets Fund.	Overall	Ongoing	NR	Not required during 2023/2024 Compliance Reporting Period. First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).
1212: MB7-2	Pilbara Environmental Offsets Fund	The proponent's contribution to the Pilbara Environmental Offsets Fund must be paid biennially, with the amount to be contributed calculated based on the clearing of native vegetation undertaken in each year of	Compliance with condition B7-2.	Impact Reconciliation Reports.	Overall	The first contribution is due biennially from	NR	Not required during 2023/2024 Compliance Reporting Period.

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ATTACHMENT 2

PROPOSAL: Woodside Solar Facility
STATEMENT: 1212

		the biennial reporting period in accordance with the rates in condition B7-3. The first biennial reporting period must commence from ground disturbing activities of the environmental value(s) identified in condition B7-3.		Evidence of payment of funds (e.g. payment receipt) to the Pilbara Environmental Offsets Fund.		ground disturbing activities and then biennially thereafter.		First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).
1212: MB7-3	Pilbara Environmental Offsets Fund	Calculated on the 2021-2022 financial year, the contribution rates are: (1) \$890 AUD (excluding GST) per ha of 'Good' to 'Excellent' condition native vegetation and northern quoll (<i>Dasyurus hallucatus</i>) supporting habitat, Pilbara leaf-nosed bat (<i>Rhinonictes aurantia</i>) supporting habitat, ghost bat (<i>Macroderma gigas</i>) supporting habitat, Pilbara olive python (<i>Liasis olivaceus barroni</i>) supporting habitat and grey falcon (<i>Falco hypoleucos</i>) supporting habitat cleared as a result of the proposal within the Roebourne IBRA subregion. (2) \$1,780 AUD (excluding GST) per ha of 'Roebourne Plains coastal grasslands with gilgai microrelief on deep cracking clays' priority ecological community' and 'Horseflat land system of the Roebourne Plains' priority ecological community' cleared as a result of the proposal within the Roebourne IBRA subregion.	PEOF Contribution for the 2021-2022 FY calculated in accordance with the rates identified in B7-3.	Impact Reconciliation Reports.	Overall	Ongoing	NR	Not required during 2023/2024 Compliance Reporting Period. First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).
1212: MB7-4	Pilbara Environmental Offsets Fund	The rates in condition B7-3 change annually each subsequent financial year in accordance with the percentage change in the CPI applicable to that financial year.	PEOF contribution calculated in accordance with Condition B7-4.	Impact Reconciliation Reports.	Overall	Annually	NR	Not required during 2023/2024 Compliance Reporting Period. First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).
1212: MB7-5	Pilbara Environmental Offsets Fund	To achieve the objective in condition B7-1 the proponent must prepare an Impact Reconciliation Procedure and submit to the CEO. This procedure must: (1) spatially define the environmental value(s) identified in condition B7-1, (2) spatially define the areas where offsets required by condition B7-1 are to be exempt, (3) include a methodology to calculate the amount of clearing undertaken during each year of the biennial reporting period for each of the environmental values identified in condition B7-3, (4) state that clearing calculation for the first biennial reporting period will commence from ground disturbing activities in accordance with condition B7-2 and end on the second 30 June following commencement of ground disturbing activities, (5) state that clearing calculations for each subsequent biennial reporting period will commence on 1 July of the required reporting period, unless otherwise agreed by the CEO, (6) be prepared in accordance with Instructions on how to prepare Environmental Protection Act 1986 Part IV Impact Reconciliation Procedures and Impact Reconciliation Reports (or any subsequent revisions).	Impact Reconciliation Procedure submitted to the CEO.	Written correspondence of submission of Impact Reconciliation Procedure or Environment Online reference number.	Overall	Prior to ground disturbance activities.	C	Impact Reconciliation Procedure submitted to DWER and approved by the CEO on 11 April 2024. Environment Online Reference Number APP – 0025043.
1212: MB7-6	Pilbara Environmental Offsets Fund	The proponent must submit an Impact Reconciliation Report in accordance with the confirmed Impact Reconciliation Procedure in condition B7-5.	Impact Reconciliation Report submitted in accordance with the Impact Reconciliation Procedure.	Written correspondence of submission of Impact Reconciliation Report or Environment Online reference number.	Overall	Prior to ground disturbance activities.	NR	Not required during 2023/2024 Compliance Reporting Period. First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).



ATTACHMENT 2

PROPOSAL: Woodside Solar Facility
STATEMENT: 1212

1212: MB7-7	Pilbara Environmental Offsets Fund	The Impact Reconciliation Report required pursuant to condition B7-6 must provide the location and spatial extent of the ground disturbing activities undertaken as a result of the proposal during each year of each biennial reporting period.	Maps and spatial data provided with Impact Reconciliation Report.	Written correspondence of submission of Impact Reconciliation Report or Environment Online reference number.	Overall	Prior to ground disturbance activities.	NR	Not required during 2023/2024 Compliance Reporting Period. First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).
1212: MB7-8	Pilbara Environmental Offsets Fund	The proponent may apply in writing and seek the written approval of the CEO to reduce all or part of the contribution payable under condition B7-2 where: (1) a payment has been made to satisfy a condition of an approval under the Environment Protection and Biodiversity Conservation Act 1999 in relation to the proposal, and (2) the payment is made for the purpose of counterbalancing impacts of the proposal on matters of national environmental significance.	Compliance with condition B7-8.	Written correspondence seeking CEO approval (if applicable).	Overall	As required.	NR	Not required during 2023/2024 Compliance Reporting Period. First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).
1212: MB7-9	Pilbara Environmental Offsets Fund	The CEO may grant approval to discount the amount payable under condition B7-1(4) if the CEO is satisfied that the payment will offset the significant residual impacts of the proposal.	Compliance with condition B7-9.	Written correspondence from CEO (if applicable).	Overall	As and when the CEO is satisfied the payment will offset the significant residual impacts of the proposal.	NR	Not required during 2023/2024 Compliance Reporting Period. First biennial reporting period not yet complete (Reporting period concludes 30 June 2025).
1212: MB7-10	Pilbara Environmental Offsets Fund	Condition C2 applies to the confirmed Impact Reconciliation Procedure required by condition B7-5 as if it were an environmental management plan.	Compliance with condition B7-10.	CAR.	Overall	Ongoing	C	Impact Reconciliation Procedure submitted to DWER and approved by the CEO on 11 April 2024. Environment Online Reference Number APP – 0025043.
1212: MC1-1	Environmental Management Plans: Conditions Related to Commencement of Implementation of the Proposal	The proponent must not undertake: (1) ground disturbing activities until the CEO has confirmed in writing that the environment management plan required by condition B2-4 and condition B3-3 meets the requirements of that condition and condition C5, (2) ground disturbing activities until the CEO has confirmed in writing that the Impact Reconciliation Procedure required by condition B7-5 meets the requirements of that condition, and (3) solar panel or infrastructure replacement, decommissioning and rehabilitation activities until the CEO has confirmed in writing that the waste minimisation, decommissioning and rehabilitation environmental management plan required by condition B5-2 meets the requirements of that condition and condition C4.	Compliance with condition C1-1.	Written correspondence from CEO confirming each required environmental management plan is approved.	Pre-construction for each stage	Prior to commencement of ground disturbing activities.	C	Woodside Solar Facility Environment Management Plan has been updated to include relevant changes (Rev 8, 19 April 2024). Environment Online Reference Number APP- 0025042. Impact Reconciliation Procedure submitted to DWER and approved by the CEO on 11 April 2024. Environment Online Reference Number APP – 0025043. Solar panel or infrastructure replacement, decommissioning and rehabilitation activities have not commenced.
1212: MC2-1	Environmental Management Plans: Conditions Relating to Approval,	Upon being required to implement an environmental management plan under Part B, or after receiving notice in writing from the CEO under condition C1-1 that the environmental management plan(s) required in Part B satisfies the relevant requirements, the proponent must: (1) implement the most recent version of the confirmed environmental	Compliance with condition C2-1.	CAR.	Overall	Ongoing	C	Woodside Solar Facility Environment Management Plan and Weed Management Plan have been implemented during the geotechnical survey.

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ATTACHMENT 2

PROPOSAL: Woodside Solar Facility
STATEMENT: 1212

	Implementation, Review and Publication	management plan, and (2) continue to implement the confirmed environmental management plan referred to in condition C2-1(1), other than for any period which the CEO confirms by notice in writing that it has been demonstrated that the relevant requirements for the environmental management plan have been met, or are able to be met under another statutory decision-making process, in which case the implementation of the environmental management plan is no longer required for that period.						Implementation of other management plans required by Part B has not been triggered to date.
1212: MC2-2	Environmental Management Plans: Conditions Relating to Approval, Implementation, Review and Publication	The proponent: (1) may review and revise a confirmed environmental management plan provided it meets the relevant requirements of that environmental management plan, including any consultation that may be required when preparing the environmental management plan, (2) must review and revise a confirmed environmental management plan and ensure it meets the relevant requirements of that environmental management plan, including any consultation that may be required when preparing the environmental management plan, as and when directed by the CEO, and (3) must revise and submit to the CEO the confirmed environmental management plan if there is a material risk that the outcomes or objectives it is required to achieve will not be complied with, including but not limited to as a result of a change to the proposal.	Compliance with condition C2-2.	Revised Environmental Management Plans (if applicable). Written correspondence from CEO confirming any revised environmental management plan is approved (if applicable).	Overall	As and when directed by CEO.	NR	Not applicable to 2023/2024 Compliance Reporting Period. There have been no revisions to date.
1212: MC2-3	Environmental Management Plans: Conditions Relating to Approval, Implementation, Review and Publication	Despite condition C2-1, but subject to conditions C2-4 and C2-5, the proponent may implement minor revisions to an environmental management plan if the revisions will not result in new or increased adverse impacts to the environment or result in a risk to the achievement of the limits, outcomes or objectives which the environmental management plan is required to achieve.	Compliance with condition C2-3.	CAR. Revised Environmental Management Plans (if applicable).	Ongoing	Overall	NR	Not applicable to 2023/2024 Compliance Reporting Period. There have been no revisions to date.
1212: MC2-4	Environmental Management Plans: Conditions Relating to Approval, Implementation, Review and Publication	If the proponent is to implement minor revisions to an environmental management plan under condition C2-3, the proponent must provide the CEO with the following at least twenty (20) business days before it implements the revisions: (1) the revised environmental management plan clearly showing the minor revisions, (2) an explanation of and justification for the minor revisions, and (3) an explanation of why the minor revisions will not result in new or increased adverse impacts to the environment or result in a risk to the achievement of the limits, outcomes or objectives which the environmental management plan is required to achieve.	Compliance with condition C2.4.	Correspondence to CEO with Revised Environmental Management Plans and justification of minor revisions (if applicable). CAR.	Overall	At least 20 business days before implementing revisions.	NR	Not applicable to 2023/2024 Compliance Reporting Period. There have been no revisions to date.
1212: MC2-5	Environmental Management Plans: Conditions Relating to Approval, Implementation, Review and Publication	The proponent must cease to implement any revisions which the CEO notifies the proponent (at any time) in writing may not be implemented.	Compliance with condition C2.5.	Correspondence from CEO (if applicable). CAR.	Overall	As and when the CEO notifies the proponent in writing.	NR	Not applicable to 2023/2024 Compliance Reporting Period. There have been no revisions to date.
1212: MC2-6	Environmental Management Plans: Conditions Relating to	Confirmed environmental management plans, and any revised environmental management plans under condition C2-4(1), must be published on the proponent's website and provided to the CEO in electronic form suitable for on-line publication by the DWER within	Environmental Management Plans published on Woodside website.	CAR. Evidence that environmental	Overall	Within 20 business days of revisions being implemented or	C	Woodside Solar Facility Management Plans published on Woodside website on 23 April 2024.

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	Approval, Implementation, Review and Publication	twenty (20) business days of being implemented, or being required to be implemented (whichever is earlier).		management plans published on Proponents website. Written correspondence to the CEO (or Environment Online reference number).		being required to be implemented (whichever is earlier).		These can be viewed at https://www.woodside.com/what-we-do/new-energy/solar
1212: MC3-1	Conditions Related to Monitoring	The proponent must undertake monitoring capable of: (1) substantiating whether the proposal limitations and extents in Part A are exceeded, and (2) detecting and substantiating whether the environmental outcomes identified in Part B are achieved (excluding any environmental outcomes in Part B where an environmental management plan is expressly required to monitor achievement of that outcome).	Compliance with condition C3-1.	Approved Environment Management Plan. CAR (including compliance monitoring report).	Overall	Ongoing	C	Section 4.2 of the Environment Management Plan (Rev 8) (Approved 22 April 2024) provides management measures to comply with MB3-1.
1212: MC3-2	Conditions Related to Monitoring	The proponent must submit as part of the Compliance Assessment Report required by condition D2, a compliance monitoring report that: (1) outlines the monitoring that was undertaken during the implementation of the proposal, (2) identifies why the monitoring was capable of substantiating whether the proposal limitation and extents in Part A are exceeded, (3) for any environmental outcomes to which condition C3-1(2) applies, identifies why the monitoring was scientifically robust and capable of detecting whether the environmental outcomes in Part B are met, (4) outlines the results of the monitoring, (5) reports whether the proposal limitations and extents in Part A were exceeded and (for any environmental outcomes to which condition C3-1(2) applies) whether the environmental outcomes in Part B were achieved, based on analysis of the results of the monitoring, and (6) reports any actions taken by the proponent to remediate any potential non-compliance.	Compliance with condition C3-2.	CAR (including compliance monitoring report).	Overall	Annually, with the annual CAR.	C	Monitoring undertaken during the Geotechnical Survey is detailed within Woodside Solar Facility Compliance Assessment Report (this document). There were no potential non-compliances.
1212: MC4-1	Environmental Management Plans: Conditions Relating to Monitoring and Adaptive Management for Outcomes Based Conditions	The environmental management plans required under conditions B2-4 and B3-3 and condition B5-2 must contain provisions which enable the substantiation of whether the relevant outcomes of those conditions are met, and must include: (1) threshold criteria that provide a limit beyond which the environmental outcomes are not achieved, (2) trigger criteria that will provide an early warning that the environmental outcomes are not likely to be met, (3) monitoring parameters, sites, control/reference sites, methodology, timing and frequencies which will be used to measure threshold criteria and trigger criteria. Include methodology for determining alternate monitoring sites as a contingency if proposed sites are not suitable in the future, (4) baseline data, (5) data collection and analysis methodologies, (6) adaptive management methodology, (7) contingency measures which will be implemented if threshold criteria or trigger criteria are not met, and (8) reporting requirements.	Environmental Management Plans compliance with condition C4.1	CAR. Approved environmental management plans.	Overall	Ongoing	C	Section 4.1 and 4.2 of the Environment Management Plan (accepted 22 April 2024) provide provisions which enable the achievement of the objectives of this condition. The CEO has confirmed in writing that the approved Environmental Management Plans satisfy these criteria.



ATTACHMENT 2

PROPOSAL: Woodside Solar Facility
STATEMENT: 1212

1212: MC4-2	Environmental Management Plans: Conditions Relating to Monitoring and Adaptive Management for Outcomes Based Conditions	The environmental management plan required under condition B5-2 is required to include: (1) removal or, if appropriate, retention of infrastructure and panels in consultation with stakeholders, and (2) rehabilitation of all disturbed areas to meet environmental outcomes in condition B5-1, in consultation with Ngarluma People.	Compliance with condition C4-2.	CAR. Approved Waste Minimisation, Decommissioning and Rehabilitation environmental management plan.	Overall	Ongoing	NR	Woodside Solar Facility Waste, Decommissioning and Rehabilitation Environmental Management Plan outlines conditions requirements under B5-2 and B5-1. It has been less than 5 years since the proposal began, therefore approval for this plan is not yet required.
1212: MC4-3	Environmental Management Plans: Conditions Relating to Monitoring and Adaptive Management for Outcomes Based Conditions	Without limiting condition C3-1, failure to achieve an environmental outcome, or the exceedance of a threshold criteria, regardless of whether threshold contingency measures have been or are being implemented, represents a non-compliance with these conditions.	Compliance with condition C4.3.	CAR.	Overall	Ongoing	C	There have been no non-compliances during the reporting period.
1212: MC5-1	Environmental Management Plans: Conditions Related to Management Actions and Targets for Objective Based Conditions	The environmental management plans required under condition B2-3, condition B2-4 and condition B3-3 must contain provisions which enable the achievement of the relevant objectives of those conditions and substantiation of whether the objectives are reasonably likely to be met, and must include: (1) management actions, (2) management targets, (3) contingency measures if management targets are not met, and (4) reporting requirements.	Environmental Management Plans compliance with condition C5.1.	CAR. Approved environmental management plans.	Overall	Ongoing	C	Section 4.1 and 4.2 of the Environment Management Plan (accepted 22 April 2024) provide provisions which enable the achievement of the objectives of this condition. The CEO has confirmed in writing that the approved Environmental Management Plans satisfy these criteria.
1212: MC5-2	Environmental Management Plans: Conditions Related to Management Actions and Targets for Objective Based Conditions	Without limiting condition C2-1, the failure to achieve an environmental objective, or implement a management action, regardless of whether contingency measures have been or are being implemented, represents a non-compliance with these conditions.	Compliance with condition C5.2.	CAR.	Overall	Ongoing	C	There have been no non-compliances identified during this reporting period.
1212: MD1-1	Non-compliance Reporting	If the proponent becomes aware of a potential non-compliance, the proponent must: (1) report this to the CEO within seven (7) days of being aware of the potential non-compliance, (2) implement contingency measures, (3) investigate the cause, (4) investigate environmental impacts, (5) advise rectification measures to be implemented, (6) advise any other measures to be implemented to ensure no further impact, and (7) provide a report to the CEO within twenty-one (21) days of being aware of the potential non-compliance, detailing the measures required in conditions D1-1(1) to D1-1(6) above.	Notify the CEO of potential non-compliances in writing and/or verbally. Any verbal notification must be followed by written notification.	Written notification to the CEO of non-compliance (if applicable). Written evidence of submission of non-compliance report.	Overall	Ongoing	C	There have been no non-compliances identified during this stage.



1212: MD1-2	Non-compliance Reporting	Failure to comply with the requirements of a condition, or with the content of an environmental management plan required under a condition, constitutes a non-compliance with these conditions, regardless of whether the contingency measures, rectification or other measures in condition D1-1 above have been or are being implemented.	Compliance with condition D1.2.	CAR.	Overall	Ongoing	C	There have been no non-compliances identified during this reporting period.
1212: MD2-1	Compliance Reporting	The proponent must provide an annual Compliance Assessment Report to the CEO for the purpose of determining whether the implementation conditions are being complied with.	CAR.	Written evidence of submission of CAR or Environment Online reference number.	Overall	Annually	C	This CAR will be provided to the CEO in accordance with this condition.
1212: MD2-2	Compliance Reporting	Unless a different date or frequency is approved by the CEO, the first annual Compliance Assessment Report must be submitted within fifteen (15) months of the date of this Statement, and subsequent reports must be submitted annually from that date.	Submit a CAR within required timeframe reporting on the previous 12 months.	Written evidence of submission of CAR or Environment Online reference number.	Overall	Submit first CAR by 03 February 2025, or as agreed by the CEO, then subsequent reports annually from that date.	C	This CAR will be provided to the CEO in accordance with this condition.
1212: MD2-3	Compliance Reporting	Each annual Compliance Assessment Report must be endorsed by the proponent's Chief Executive Officer, or a person approved by proponent's Chief Executive Officer to be delegated to sign on the Chief Executive Officer's behalf.	CAR endorsed by CEO or delegate.	Evidence of endorsement of CAR.	Overall	Annually	C	This Compliance Assessment Report is to be signed on Woodside's behalf.
1212: MD2-4	Compliance Reporting	Each annual Compliance Assessment Report must: (1) state whether each condition of this Statement has been complied with, including: (a) exceedance of any proposal limits and extents, (b) achievement of environmental outcomes, (c) achievement of environmental objectives, (d) requirements to implement the content of environmental management plans, (e) monitoring requirements, (f) implement contingency measures, (g) requirements to implement adaptive management, and (h) reporting requirements. (2) include the results of any monitoring (inclusive of any raw data) that has been required under Part C in order to demonstrate that the limits in Part A, and any outcomes or any objectives are being met, (3) provide evidence to substantiate statements of compliance, or details of where there has been a non-compliance, (4) include the corrective, remedial and preventative actions taken in response to any potential non-compliance, (5) be provided in a form suitable for publication on the proponent's website and online by the Department of Water and Environmental Regulation, (6) be prepared and published consistent with the latest version of the Compliance Assessment Plan required by condition D2-5 which the CEO has confirmed by notice in writing satisfies the relevant requirements of Part C and Part D.	CAR.	CAR.	Overall	Annually	C	This CAR meets the requirements of this condition and will be published consistent with the approved CAP.
1212: MD2-5	Compliance Reporting	The proponent must prepare a Compliance Assessment Plan which is submitted to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition D2-2, or prior to implementation of the proposal, whichever is sooner.	CAP.	Written evidence of submission of CAP or Environment Online reference number.	Overall	Submit CAP by 03 May 2024 or prior to implementation of the proposal, whichever is sooner.	C	The CAP was submitted to the CEO on 08/02/2024 which was greater than 6 months prior to submission of the first CAR. Environment Online Reference Number APP-0025111.



1212: MD2-6	Compliance Reporting	The Compliance Assessment Plan must include: (1) what, when and how information will be collected and recorded to assess compliance, (2) the methods which will be used to assess compliance, (3) the methods which will be used to validate the adequacy of the compliance assessment to determine whether the implementation conditions are being complied with, (4) the retention of compliance assessments, (5) the table of contents of Compliance Assessment Reports, including audit tables, and (6) how and when Compliance Assessment Reports will be made publicly available, including usually being published on the proponent's website within sixty (60) days of being provided to the CEO.	CAP.	CAP.	Overall	Submit CAP by 03 May 2024 or prior to implementation of the proposal, whichever is sooner.	C	The CAP was submitted to the CEO on 08/02/2024 which was greater than 6 months prior to submission of the first CAR. Environment Online Reference Number APP-0025111. The CAP was approved by the CEO on 27/09/2024 which confirms that the approved Environmental Management Plans satisfy these criteria.
1212: MD3-1	Contact Details	The proponent must notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty-eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.	Notify the CEO in writing of any change to proponent details.	Copy of written notification to CEO of any change in proponent details (if applicable).	Overall	Within 28 days of a change in name, physical address, or postal address.	NR	There has been no change in name, physical address, or postal address during the reporting period.
1212: MD4-1	Time Limit for Proposal Limitation	The proposal must be substantially commenced within five (5) years from the date of this Statement.	Substantially commence the proposal no later than 03/11/2028.	Evidence of substantial commencement such as site records, records of award of contracts, clearing records.	Overall	Commence by 03 November 2028.	NR	Not applicable to 2023/2024 Compliance Reporting Period. It has not been five years since the date of Ministerial Statement 1212.
1212: MD4-2	Time Limit for Proposal Limitation	The proponent must provide to the CEO documentary evidence demonstrating that they have complied with condition D4-1 no later than fourteen (14) days after the expiration of period specified in condition D4-1.	Provide evidence to the CEO in writing to demonstrate the proposal has substantially commenced.	Written evidence of submission to CEO of compliance with condition D4-1.	Overall	No later than 17 November 2028.	NR	Not applicable to 2023/2024 Compliance Reporting Period. The Proposal has not substantially commenced.
1212: MD4-3	Time Limit for Proposal Limitation	If the proposal has not been substantially commenced within the period specified in condition D4-1, implementation of the proposal must not be commenced or continued after the expiration of that period.	The proposal will not be implemented if not substantially commenced by 03/11/2028.	CAR.	Overall	After 03 November 2028.	NR	Not applicable to 2023/2024 Compliance Reporting Period.
1212: MD5-1	Public Availability of Data	Subject to condition D5-2, within a reasonable time period approved by the CEO upon the issue of this Statement and for the remainder of the life of the proposal, the proponent must make publicly available, in a manner approved by the CEO, all validated environmental data collected before and after the date of this Statement relevant to the proposal (including sampling design, sampling methodologies, monitoring and other empirical data and derived information products (e.g. maps)), environmental management plans and reports relevant to the assessment of this proposal and implementation of this Statement.	All environmental plans and reports required by MS 1212 will be made publicly available by publishing them on the relevant website for the duration of the proposal. Requests for information after this	Evidence that CAR (including compliance monitoring reports) made publicly available.	Overall	Within a reasonable time period approved by the CEO.	C	Documents currently publicly available on Woodside website: <ul style="list-style-type: none"> Woodside Solar Facility Weed Management Plan Woodside Solar Facility Impact Reconciliation Procedure Woodside Solar Facility Environment Management Plan.



			time will be addressed in accordance with DWER guidelines for making information publicly available.					These can be viewed at https://www.woodside.com/what-we-do/new-energy/solar
1212: MD5-2	Public Availability of Data	If: (1) any data referred to in condition D5-1 contains trade secrets, or (2) any data referred to in condition D5-1 contains particulars of confidential information (other than trade secrets) that has commercial value to a person that would be, or could reasonably be expected to be, destroyed or diminished if the confidential information were published, the proponent may submit a request for approval from the CEO to not make this data publicly available and the CEO may agree to such a request if the CEO is satisfied that the data meets the above criteria.	Submit a request for approval from the CEO to not make sensitive information publicly available.	Evidence of written request to CEO (if applicable). Written evidence of CEO approval (if applicable).	Overall	As and when approved by the CEO.	NR	Not applicable to 2023/2024 Compliance Reporting Period.
1212: MD5-3	Public Availability of Data	In making such a request the proponent must provide the CEO with an explanation and reasons why the data should not be made publicly available.	Request includes reasons for not making data publicly available.	Evidence of written request to CEO (if applicable).	Overall	As required.	NR	Not applicable to 2023/2024 Compliance Reporting Period.
1212: MD6-1	Independent Audit	The proponent must arrange for an independent audit of compliance with the conditions of this statement, including achievement of the environmental outcomes and/or the environmental objectives and/ or environmental performance with the conditions of this statement, as and when directed by the CEO.	Independent audit arranged if requested by CEO.	Written request from CEO (if applicable). Independent audit report (if applicable).	Overall	As and when directed by the CEO.	NR	Not applicable to 2023/2024 Compliance Reporting Period.
1212: MD6-2	Independent Audit	The independent audit must be carried out by a person with appropriate qualifications who is nominated or approved by the CEO to undertake the audit under condition D6-1.	Qualified Auditor engaged.	Copy of Auditor qualifications (if applicable).	Overall	As and when directed by the CEO.	NR	Not applicable to 2023/2024 Compliance Reporting Period.
1212: MD6-3	Independent Audit	The proponent must submit the independent audit report with the Compliance Assessment Report required by condition D2, or at any time as and when directed in writing by the CEO. The audit report is to be supported by credible evidence to substantiate its findings.	Written correspondence of submission of audit report with the CAR.	Written evidence of submission of independent audit report (either with CAR or separately).	Overall	With the annual CAR, or as and when directed in writing by the CEO.	NR	Not applicable to 2023/2024 Compliance Reporting Period.
1212: MD6-4	Independent Audit	The independent audit report required by condition D6-1 is to be made publicly available in the same timeframe, manner and form as a Compliance Assessment Report, or as otherwise directed by the CEO.	Independent audit report published on relevant website.	Evidence independent audit report published on Proponents website. And/or: Evidence that independent audit report made publicly available as directed by the CEO.	Overall	Within a reasonable time period approved by the CEO.	NR	Not applicable to 2023/2024 Compliance Reporting Period.

APPENDIX C: GEOTECHNICAL INVESTIGATION COMPLIANCE EVIDENCE - PRE-CLEARANCE WEED SURVEY (JUNE 2024) AND PRE- CLEARANCE SURVEY & FAUNA SPOTTING REPORT (JULY 2024)

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Controlled Ref No: PA0005RH0000001

Revision: 0

Page 28 of 28

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MAITLAND SOLAR FARM KARRATHA PRE-CLEARANCE WEED SURVEY

Pre-clearance Weed Survey

June 2024



Maitland Solar Farm Karratha: Pre-clearance weed survey

We would like to acknowledge the **Ngarluma Peoples of the Ngurra region** as the Traditional Owners of the land where this survey was undertaken. We respect their connection to the country, their stewardship of the land, waters, and sea, and acknowledge the past ancestors of the land.

Author: Catherine Krens and Lucy Keays
Date: 6th June 2024
Client: SLR Consulting / Pacific Energy
Version: 1.0

Chain of authorship and review			
Name	Task	Version	Date
C. Krens and L. Keays	Draft report for review by client	1.0	June 2024

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Executive summary

Woodside Energy Ltd plans to develop the Woodside Maitland Solar Facility, located approximately 15 km southwest of Karratha. The project will consist of a large-scale solar photovoltaic farm (Solar PV Farm) and associated infrastructure.

A Weed Management Plan was developed for the project. Management of weeds associated with the project is a key objective, and a weed survey was required prior to any ground disturbance and construction activities. The weed survey will help manage the spread of weeds associated with the project, particularly within the two Priority Ecological Communities: Roebourne Plains coastal grassland with microrelief on cracking clays (Priority 1) and Horseflat land system of the Roebourne Plains (Priority 3).

The weed survey was undertaken in May 2024 during the dry season. A total of 31 monitoring quadrats were surveyed, including 18 geotechnical test pits, eight Solar PV Farm monitoring quadrats, and five PEC monitoring quadrats. Baseline weed mapping was conducted across the Solar PV Farm to map weed species and their percentage cover.

A total of four weeds were recorded within the Solar PV Farm (*Cenchrus ciliaris*, *Portulaca oleracea*, *Tribulus Terrestris* and *Vachellia farnesiana*) and one weed was recorded outside the Solar PV Farm (*Aerva javanica*). In summary, the following was recorded:

- No Declared Plants
- No Weeds of National Significance (WONS)
- One Prescribed Pest - *Tribulus Terrestris*
- Two high-ecological impact weeds - *Cenchrus ciliaris* and *Vachellia farnesiana*.

The majority of the Solar PV Farm had a low weed cover of less than 2% and was in Very Good or Excellent condition. However, in disturbed areas with high cattle activity and within drainage lines, there was slightly higher weed cover with some patches exceeding 10%, which is the trigger threshold for weed control. In these areas, weed control should be conducted by spot spraying and monitored annually.

The following recommendations for weed management are provided:

- Undertake annual monitoring of the 31 quadrats during the dry season
- Update the baseline weed map and weed register following weed monitoring
- Undertaken annual weed control of the high-density weed areas.

Table of Contents

Executive summary	3
1.0 Introduction	5
1.1 Background.....	5
1.2 Location of the project	5
1.3 Objective and scope of work	5
2.0 Methodology.....	6
2.1 Desktop assessment	6
2.2 Weed survey.....	6
2.3 Weed mapping	7
3.0 Results.....	8
3.1 Desktop results.....	8
3.2 Weed survey.....	9
3.3 Baseline weed mapping.....	13
3.4 Weed management and control	13
4.0 Conclusion.....	14
References	15
Figures.....	16
Appendix A Desktop results	20
Appendix B Monitoring quadrats data.....	22
Appendix C Weed register	57

1.0 Introduction

1.1 Background

Woodside Energy Ltd is planning to develop the Woodside Maitland Solar Facility south of Karratha. The project will include a large-scale solar photovoltaic farm (Solar PV Farm), comprising parallel rows of up to 1,000,000 solar panels measuring 1m x 2m. Other infrastructure will consist of an electrical substation, battery storage infrastructure, unsealed roads between PV panels, a track to the Solar PV Farm, and a perimeter fence.

A Weed Management Plan (Woodside, 2023) was developed to manage the spread of weeds associated with the Solar PV Farm construction, operation, and maintenance. As part of the project's environmental commitments, a pre-clearance weed survey was required before any ground disturbance associated with geotechnical activities. Anders Environmental undertook a weed survey and baseline weed mapping within the geotechnical test pits and Solar PV Farm.

1.2 Location of the project

The Solar PV Farm is located approximately 15 km southwest of Karratha on the North West Coastal Highway. It is located east of the Maitland Strategic Industrial Area and south of the Dampier to Bunbury Pipeline on the former Karratha Station Pastoral Lease (Figure 1).

1.3 Objective and scope of work

The objective of the weed survey was to identify weeds within the Solar PV Farm to enable management of their spread during the operation and construction of the project into the surrounding environment, especially within any significant vegetation such as Priority Ecological Communities. The baseline weed mapping will identify weed populations within the Solar PV Farm and determine appropriate weed control actions.

The scope of the weed survey involved mapping weeds and weed cover across the Solar PV Farm and establishing weed monitoring quadrats within:

- Geotechnical drill pads
- Solar panel infrastructure area
- Priority Ecological Communities.

2.0 Methodology

2.1 Desktop assessment

A review of past reports was conducted to identify weeds that may occur within the Solar PV Farm. Weeds recorded within the larger Woodside Solar PV Farm Development Envelope (Development Envelope) are expected to be present in the Solar PV Farm, while weeds found outside the Development Envelope are less likely to be present. The reports reviewed included:

- Woodside Solar Facility Weed Management Plan (Woodside, 2023)
- Woodside Power Project Detailed Wet Season Vegetation Surveys within the Solar PV and Power Plan Footprint (Vicki Long and Associates (VLA) 2020)
- Woodside Power Project Flora and Vegetation Surveys Desktop Assessment Report (VLA, 2019).

2.2 Weed survey

The weed survey was undertaken between May 20th and 24th, 2024, at the beginning of the Pilbara region's dry season. The Weed Management Plan recommends surveys be undertaken early in the dry season to enable weed infestation to be identified (Woodside, 2023). Principal Botanist Catherine Krens, who has over 15 years of experience, and Graduate Botanist Lucy Keays conducted the survey.

A total of 31 non-permanent monitoring quadrats measuring 50m x 50m were surveyed. Non-permanent quadrats were used to accommodate geotechnical activities and construction. GPS coordinates and photographs were taken at all four corners of the quadrats. Permanent quadrats will be established once construction is completed. The monitoring quadrats were established in the following areas:

- 18 geotechnical test pits (KML01 – KML19)
- Eight solar farm monitoring quadrats (SF01 – SF08)
- Two Roebourne Plains PEC monitoring quadrats (PP03, RP01)
- Three Horseflat PEC monitoring quadrats (HF01, PP02, SV02).

Quadrats were set up with a fence dropper at each corner and a measuring tape around the quadrat boundary. Each corner of the quadrat was GPS-tagged, and a photograph was taken. The quadrat was traversed at approximately 5m spacing, and all weeds were recorded. The parameters recorded within the quadrats included:

- Weed species
- Approximate number of plants
- Estimated percentage cover
- Photograph of each weed species
- Age structure of the weed population – adult, juvenile seedling
- Lifecycle – vegetative, flowering, seeding
- Plant health and efficacy of treatment
- GPS location of any Declared Pests, Prescribed Pests or WoNS.

Weed cover was assigned a cover class as determined in the survey of the Development Envelope (VLA, 2020). The foliage cover classes are as follows:

- 1 for less than 2% cover
- 2 for 2-5% cover
- 3 for 6-25% cover
- 4 for 26-50% cover
- 5 for 51-75% cover
- 6 for 76-95% cover
- 7 for 96-99% cover
- 8 for more than 99% cover.

2.3 Weed mapping

The Solar PV Farm was traversed on foot and by vehicle. Baseline weed mapping involved visual inspections to map weed occurrences and percentage cover within the Solar PV Farm. Disturbed areas near tracks, within drainage lines and in areas with high cattle activity were of particular focus. GPS point locations of any Weeds of National Significance (WONS), Declared Pests and Prescribed Pests were recorded.

Weeds classified as having a high-ecological impact (Woodside, 2023) with densities above 10% were mapped. This is the trigger threshold for weed control as specified in the Weed Management Plan. These species include:

- *Aerva javanica* (Kapok)
- *Cenchrus ciliaris* (Buffel Grass)
- *Cenchrus setigera* (Birdwood Grass)
- *Passiflora foetida* (Stinking Passion Flower)
- *Vachellia farnesiana* (Mimosa Bush).

A weed register was created to document all weed occurrences mapped within the Solar PV Farm. The register and baseline mapping will guide weed control activities as outlined in the Weed Management Plan.

3.0 Results

3.1 Desktop results

Three weed species were previously recorded within the Development Envelope. These weeds were expected to be present in the Solar PV Farm:

- *Cenchrus ciliaris* (Buffel Grass)
- *Tribulus terrestris* (Caltrop)
- *Vachellia farnesiana* (Mimosa Bush).

A total of 45 weed species have been recorded near the Development Envelope. These weeds were considered to potentially occur within the Solar PV Farm. The full list is provided in Appendix A.

Within the potential weeds, there are five Declared Plants listed under the *Biosecurity and Agricultural Management Act 2007* (BAM Act), three Weeds of National Significance (WONS), one Prescribed Pest Plant, and five high-ecological impact weeds (Table 1).

Table 1 List of significant weeds that may occur within the Solar PV Farm

Weed species	Declared Plant	WONS	Prescribed Pest	High-ecological impact weed
<i>Aerva javanica</i>				✓
<i>Cenchrus ciliaris</i>				✓
<i>Cenchrus setiger</i>				✓
<i>Jatropha gossypifolia</i>	✓			
<i>Lantana camara</i>	✓	✓		
<i>Opuntia stricta</i>	✓			
<i>Parkinsonia aculeata</i>	✓	✓		
<i>Passiflora foetida</i>				✓
<i>Tamarix aphylla</i>	✓	✓		
<i>Tribulus terrestris</i>			✓	
<i>Vachellia farnesiana</i>				✓

In 2020, Vicki Long and Associates conducted a flora and vegetation survey of the project's Development Envelope. The survey identified two Priority Ecological Communities (PECs) occurring throughout the Development Envelope:

- Roebourne Plains coastal grassland with microrelief on cracking clays - Priority 1 (Plate 1)
- Horseflat land system of the Roebourne Plains - Priority 3 (Plate 2).



Plate 1 Roebourne Plains grassland with microrelief on cracking clays PEC





Plate 2 Horseflat land system of the Roebourne Plains PEC



3.2 Weed survey


The weed survey of the Solar PV Farm was undertaken over four days from May 20th to 24th, 2024. In total, 31 monitoring quadrats were surveyed. All weeds recorded within the quadrats are provided in Appendix B.

During the survey, a total of five weed species were recorded. No Declared Plants or WONS were found, but one Prescribed Pest, *Tribulus terrestris*, was recorded. Among the recorded weeds, three have a high-ecological impact: *Aerva javanica* (only found outside the Solar PV Farm), *Cenchrus ciliaris*, and *Vachellia farnesiana*. The details of the recorded weeds are summarised in Table 2.

Table 2 Weed species recorded within the Solar PV Farm

Species	Photograph	Description	Occurrence
<i>Aerva javanica</i>		<p>A medium perennial herb up to 40 cm with white terminal tubular flowers. It occurred in an area disturbed by heavy cattle activity within the Horseflat Land System PEC.</p>	<p>It was recorded outside the Solar PV Farm at one location near the north-eastern boundary of the Solar PV Farm. Approximately 14 plants were present.</p>
<i>Cenchrus ciliaris</i>		<p>A perennial spreading tufted grass up to 50 cm. It has terminal inflorescences, which are light purple to brown. It prefers disturbed habitats and, in particular, drainage lines.</p>	<p><i>C. ciliaris</i> was found in more disturbed areas with high cattle activity. It was observed in higher densities under <i>Vachellia farnesiana</i> shrubs, which may provide some shading and protection.</p>

Species	Photograph	Description	Occurrence
<i>Portulaca oleracea</i>		<p>A succulent, prostrate to decumbent annual herb to 20 cm. It has yellow flowers; however, it was not flowering at the time of the survey. It occurs in disturbed habitats.</p>	<p><i>P. oleracea</i> was mostly found in disturbed areas throughout the Solar PV Farm and preferred the Horseflat land system PEC.</p>
<i>Tribulus terrestris</i>		<p>Prostrate annual herb with yellow flowers. Plants are villous with leaflet pairs 4-7; cocci with distinct divergent, median spines 3-8 mm. Occurs in disturbed habitats.</p>	<p><i>T. terrestris</i> occurs in disturbed areas, particularly in cattle-disturbed depressions. It prefers the Roebourne Plains coastal grassland PEC but was also frequently found in the Horseflat land system PEC.</p>

Species	Photograph	Description	Occurrence
<i>Vachellia farnesiana</i>	 A photograph of a Vachellia farnesiana shrub in a dry, open landscape. The shrub is a small, bushy tree with green and brownish leaves, growing on reddish-brown soil. The background shows a flat, open plain under a blue sky with scattered white clouds.	Erect, spreading, thicket-forming, thorny tree or shrub to 4 m with yellow flowers. Occurs within drainage lines.	<i>V. farnesiana</i> occurred primarily along drainage lines throughout the Solar PV Farm. It preferred the Roebourne Plains coastal grassland PEC. It was often associated with <i>C. ciliaris</i> .

3.3 Baseline weed mapping

Baseline weed mapping was undertaken by visual inspections across the Solar PV Farm. In disturbed areas, transects were walked to map the extent of weed infestations. A total of 80 mapping notes were recorded detailing weed species and percentage cover across the Solar PV Farm (Figure 2). All recorded weeds are detailed in the weed register in Appendix C.

The Solar PV Farm occurs within the former Karratha Station Pastoral Lease, which is still an active cattle station. Although cattle tracks were observed throughout the Solar PV Farm, the vegetation was resilient, with mostly a low weed cover of less than 2% (cover class 1), and the overall vegetation condition was predominantly Very Good or Excellent.

Weeds were mainly confined to disturbed areas, particularly adjacent to tracks, in high cattle activity areas and within drainage lines. In these areas, weed cover generally ranged between 2% to 5% (cover class 2) and, in some areas, greater than 10% (cover class 3).

3.4 Weed management and control

The Weed Management Plan (Woodside, 2023) aims to minimise the risk of weed spread through proactive weed management and control. A trigger value of more than 10% total weed cover of high-ecological impact species was used as a threshold for determining when weed control should be conducted. The areas that meet this threshold have been identified on Figure 3. Weed control should be conducted annually in these areas.

Chemical treatment is the most effective and efficient method, and the level of control depends on the weeds' priority rating. The Weed Management Plan (Woodside, 2023) provides details on the weed management requirements for the Prescribed Pest and high-ecological impact weeds found within the Solar PV Farm and is summarised in Table 3.

Table 3 Weed management and monitoring requirements

Weed species	Priority	Management	Monitoring
<i>Cenchrus ciliaris</i>	Low	Spot spray with 1-2% glyphosate or similar and follow-up with seedling control	Annually during the dry season
<i>Tribulus terrestris</i>	Low	Spot spray with 1-2% glyphosate or similar	Annually during the dry season
<i>Vachellia farnesiana</i>	Low	Spot spray with 1-2% glyphosate or similar and follow-up with seedling control	Annually during the dry season

4.0 Conclusion

The weed survey was conducted during the dry season. Thirty-one monitoring quadrats were established, and baseline weed mapping was carried out across the Solar PV Farm. A total of four weeds were recorded within the Solar PV Farm: *Cenchrus ciliaris*, *Portulaca oleracea*, *Tribulus terrestris* and *Vachellia farnesiana*. One weed, *Aerva javonica*, was recorded outside the Solar PV Farm. None of the weeds was a Declared Pest or WONS. However, *Tribulus Terrestris* is a Prescribed Pest. Two of the weeds are classified as high-ecological impact weeds. A weed register of all recorded weeds is provided in Appendix C.

Weeds occurred in disturbed areas near tracks, locations with high cattle activity, and drainage lines. Within the Solar PV Farm, weed cover was generally low, with most areas having less than 2% weed cover. However, there were some areas with relatively high weed density of greater than 10% cover, which is the threshold for weed control activities. All four weeds were found in these areas, and they are all classified as low priority. The goal for managing these weeds is to contain and control them through spraying and annual monitoring.

Based on the results of the weed survey, the following recommendations are made:

- Monitor the 31 quadrats during the dry season in 2025
- Update the baseline weed map and weed register following monitoring
- Undertaken annual weed control of the high-density weed areas (Figure 3).

References

Environmental Protection Authority (EPA), 2016. Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment. EPA, Western Australia.

Vicki Long and Associates (VLA), 2020. Woodside Power Project Detailed Wet Season Vegetation Surveys within the Solar PV and Power Plan Footprint. Prepared for Woodside Power Pty Ltd.

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Woodside Energy, 2023. Woodside Solar Facility Weed Management Plan.

Figures



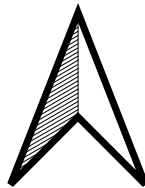
Woodside Maitland Solar Farm CEMP
Figure 1. Survey Area

Date: 07/06/24
 Author: L Keays
 Projection: UTM MGA Zone 50K

0 250 500 m



1:10,000



Legend

Survey area

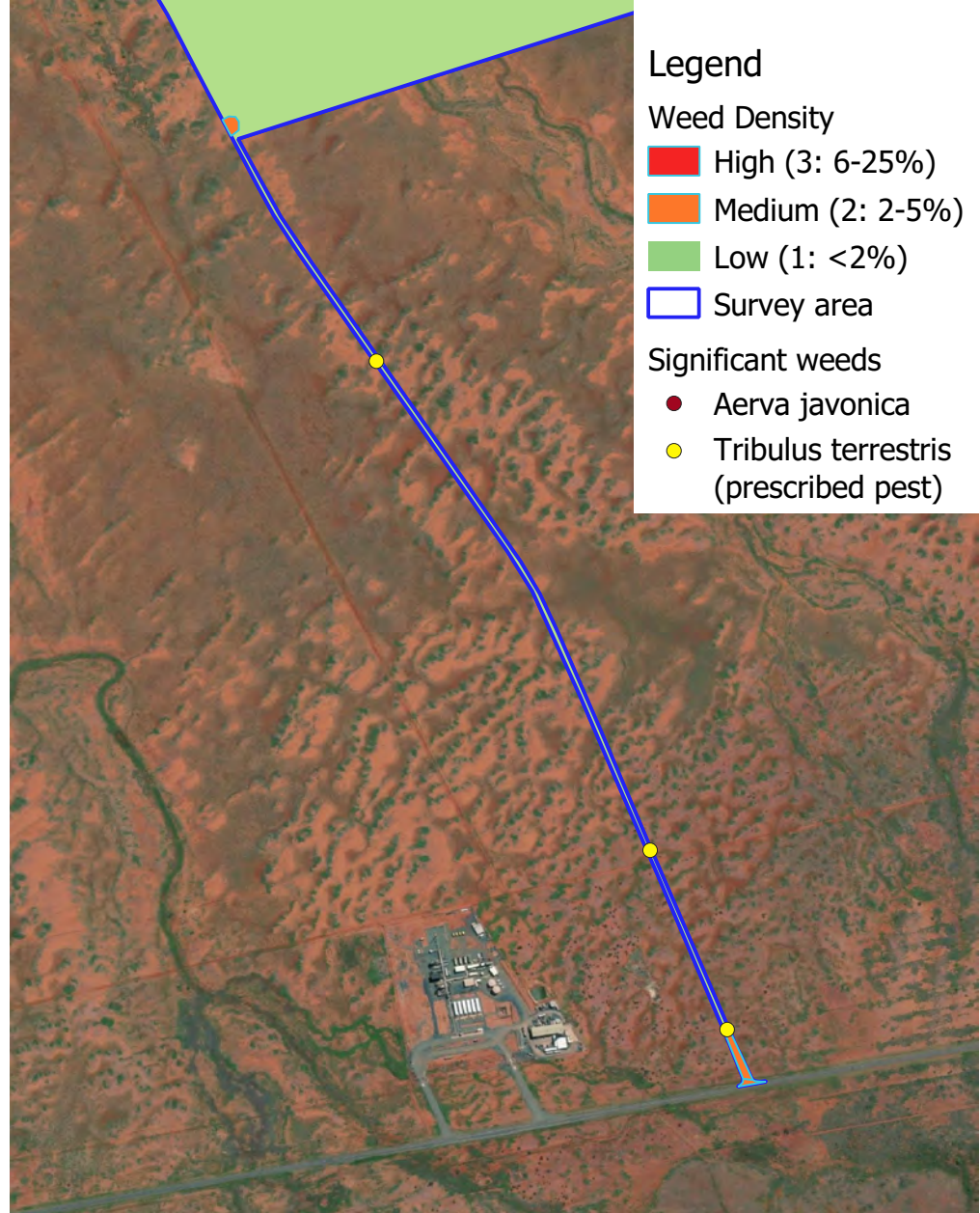
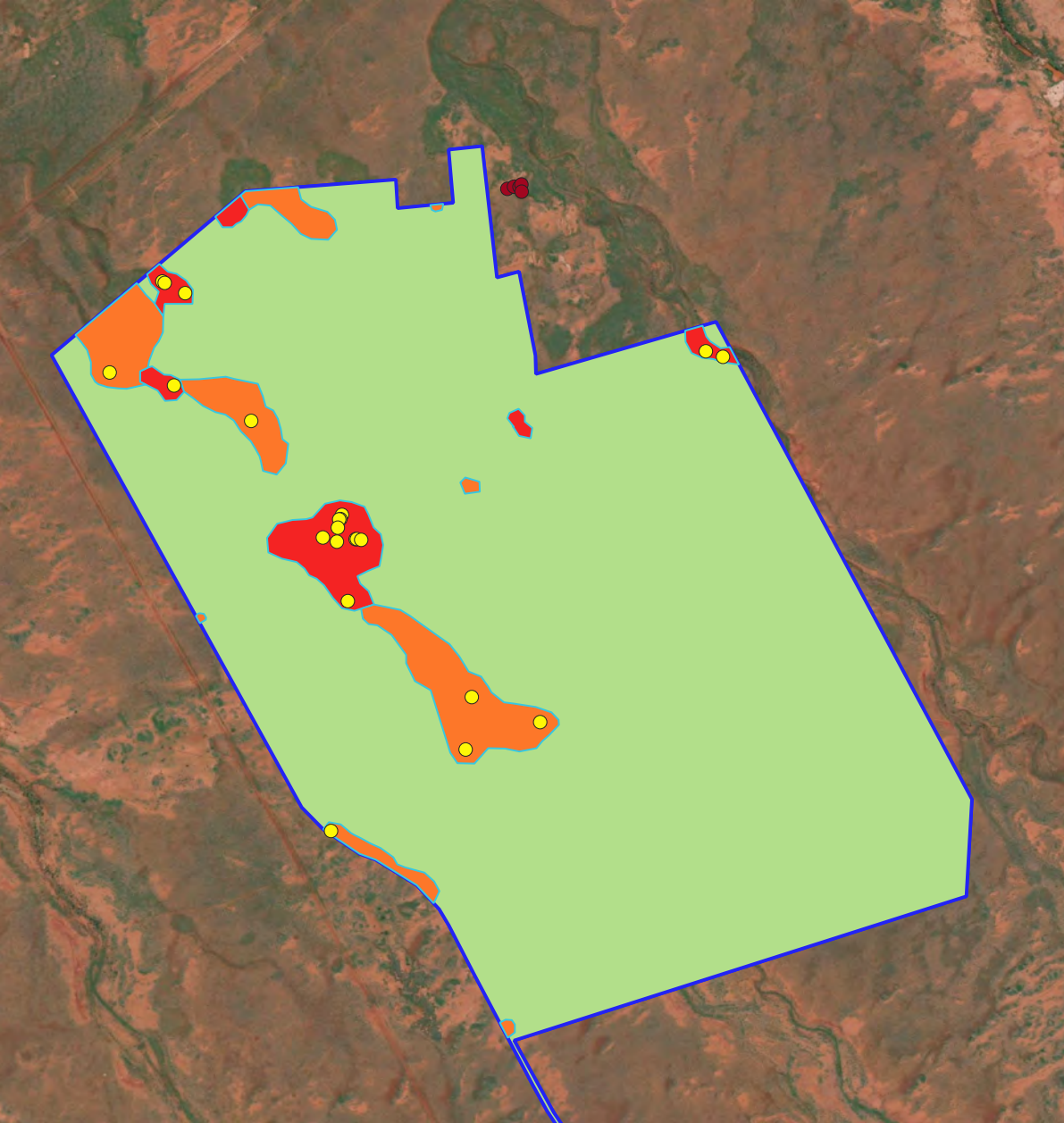
Weed monitoring quadrats

GeoTechnical Test Pits

PEC monitoring quadrat

Solar farm monitoring quadrat

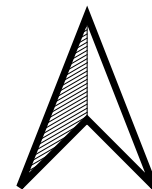
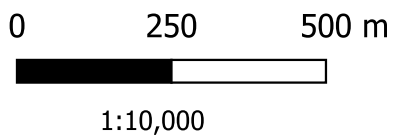


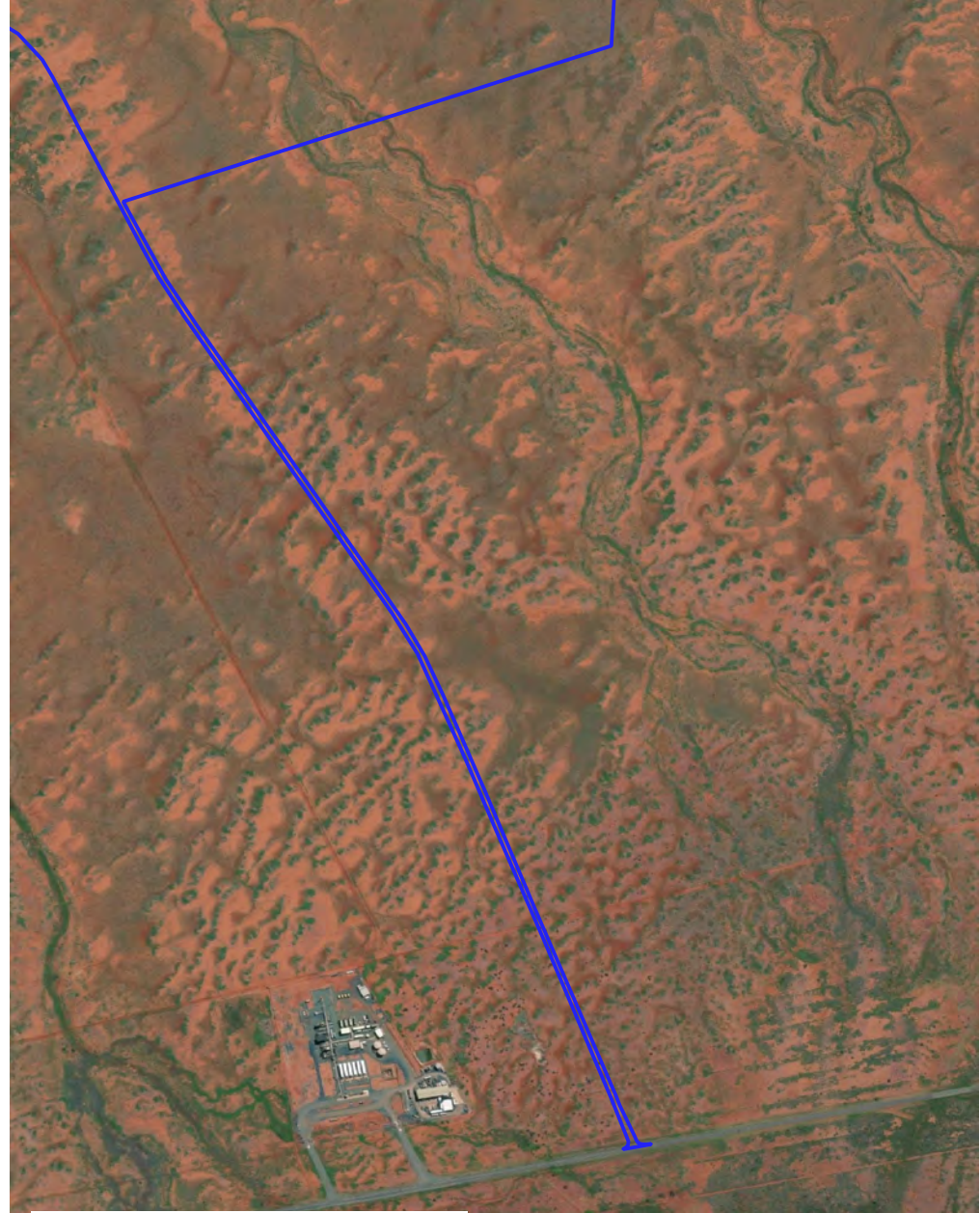
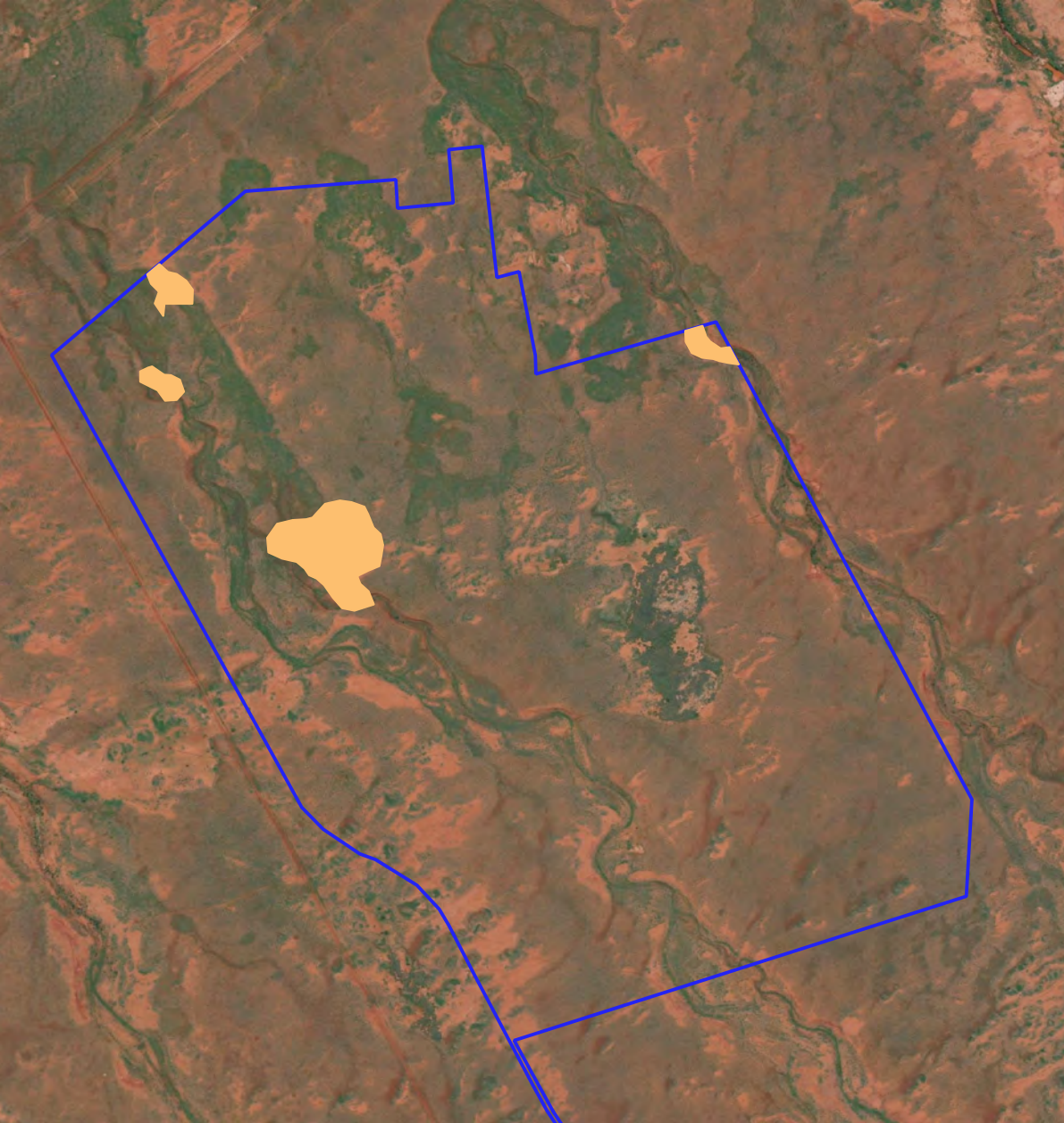


- Legend**
- Weed Density**
- High (3: 6-25%)
 - Medium (2: 2-5%)
 - Low (1: <2%)
 - Survey area
- Significant weeds**
- Aerva javonica
 - Tribulus terrestris (prescribed pest)

Woodside Maitland Solar Farm CEMP
Figure 2. Weed Map and Location of Significant Weeds

Date: 07/06/24
 Author: L Keays
 Projection: UTM MGA Zone 50K





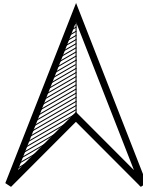
Woodside Maitland Solar Farm CEMP
Figure 3. High Ecological Impact Weeds

Date: 07/06/24
Author: L Keays
Projection: UTM MGA Zone 50K

0 250 500 m



1:10,000



Legend

 Survey area

High Ecological Impact Weeds

 Density >10%



Appendix A Desktop results

Weed species	Location	Likelihood
<i>Achyranthes aspera</i> (Chaff Flower)	Outside development envelope	Low
<i>Aerva javanica</i> (Kapok Bush)	Outside development envelope	Low
<i>Albizia lebbbeck</i> (Rain Tree)	Outside development envelope	Low
<i>Alternanthera pungens</i> (Khaki Weed)	Outside development envelope	Low
<i>Arundo donax</i> (Giant Reed)	Outside development envelope	Low
<i>Bidens bipinnata</i> (Bipinnate Beggartick)	Outside development envelope	Low
<i>Calotropis procera</i> (Rubber Plant)	Outside development envelope	Low
<i>Cenchrus ciliaris</i> (Buffel Grass)	Within development envelope	High
<i>Cenchrus echinatus</i> (Burrgrass)	Outside development envelope	Low
<i>Cenchrus setaceus</i> (Fountain Grass)	Outside development envelope	Low
<i>Cenchrus setiger</i> (Birdwood Grass)	Outside development envelope	Low
<i>Clitoria ternatea</i> (Butterfly Pea)	Outside development envelope	Low
<i>Chloris barbata</i> (Purpletop Chloris)	Outside development envelope	Low
<i>Cotoneaster pannosus</i> (Cotoneaster)	Outside development envelope	Low
<i>Dactyloctenium aegyptium</i> (Coastal Button Grass)	Outside development envelope	Low
<i>Digitaria ciliaris</i> (Summer Grass)	Outside development envelope	Low
<i>Distimake dissectus</i> (Hairy Merremia)	Outside development envelope	Low
<i>Erigeron sumatrensis</i> (Tall Fleabane)	Outside development envelope	Low
<i>Euphorbia hirta</i> (Asthma Plant)	Outside development envelope	Low
<i>Gossypium hirsutum</i> (Upland Cotton)	Outside development envelope	Low
<i>Indigofera oblongifolia</i>	Outside development envelope	Low
<i>Indigofera sessiliflora</i>	Outside development envelope	Low
<i>Jatropha gossypifolia</i> (Bellyache Bush)	Outside development envelope	Low
<i>Lactuca saligna</i> (Wild Lettuce)	Outside development envelope	Low
<i>Lantana camara</i> (Common Lantana)	Outside development envelope	Low
<i>Leucaena leucocephala</i> (Lead Tree)	Outside development envelope	Low
<i>Macroptilium atropurpureum</i> (Purple Bean)	Outside development envelope	Low
<i>Malvastrum americanum</i> (Spiked Malvastrum)	Outside development envelope	Low
<i>Nerium oleander</i> (Oleander)	Outside development envelope	Low
<i>Opuntia stricta</i> (Common Prickly Pear)	Outside development envelope	Low
<i>Parkinsonia aculeata</i> (Parkinsonia)	Outside development envelope	Low
<i>Passiflora foetida</i> (Stinking Passionflower)	Outside development envelope	Low
<i>Phoenix dactylifera</i> (Date Palm)	Outside development envelope	Low
<i>Physalis angulata</i> (Wild Gooseberry)	Outside development envelope	Low
<i>Raphanus raphanistrum</i> (Wild Radish)	Outside development envelope	Low

Weed species	Location	Likelihood
<i>Rumex vesicarius</i> (Ruby Dock)	Outside development envelope	Low
<i>Schinus terebinthifolia</i> (Japanese Pepper)	Outside development envelope	Low
<i>Sonchus asper</i> (Rough Sowthistle)	Outside development envelope	Low
<i>Sonchus oleraceus</i> (Common Sowthistle)	Outside development envelope	Low
<i>Solanum nigrum</i> (Blackberry Nightshade)	Outside development envelope	Low
<i>Stylosanthes hamata</i> (Verano Stylo)	Outside development envelope	Low
<i>Tamarix aphylla</i> (Athel Pine)	Outside development envelope	Low
<i>Tecoma stans</i> (Tecoma)	Outside development envelope	Low
<i>Trianthema portulacastrum</i> (Giant Pigweed)	Outside development envelope	Low
<i>Tribulus terrestris</i> (Caltrop)	Within development envelope	High
<i>Tridax procumbens</i> (Tridax)	Outside development envelope	Low
<i>Vachellia farnesiana</i> (Mimosa Bush)	Within development envelope	High
<i>Washingtonia filifera</i> (Cotton Palm)	Outside development envelope	Low

Appendix B Monitoring quadrats data

Table A-1 Recorded weeds within monitoring quadrats





Quadrat	Quadrat type	Condition	Weed species	Age structure	Lifecycle	Plant health	Cover Class	Number of plants
KML02	Geotechnical test pit	Very Good	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	2 (2-5%)	95
KML03	Geotechnical test pit	Excellent	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	21
KML04	Geotechnical test pit	Very Good	<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	2 (2-5%)	17
KML05	Geotechnical test pit	Excellent	No weeds					
KML06	Geotechnical test pit	Excellent	No weeds					
KML07	Geotechnical test pit	Excellent	No weeds					
KML08	Geotechnical test pit	Excellent	No weeds					
KML09	Geotechnical test pit	Very Good	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	2
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	2
			<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	5
KML10	Geotechnical test pit	Good	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	2 (2-5%)	84
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	2 (2-5%)	21
			<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	2 (2-5%)	34
KML11	Geotechnical test pit	Very Good	<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	1





Quadrat	Quadrat type	Condition	Weed species	Age structure	Lifecycle	Plant health	Cover Class	Number of plants
			<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	4
			<i>Vachellia farnesiana</i>	Adult	Vegetative	Healthy, suitable for spraying	2 (2-5%)	2
KML12	Geotechnical test pit	Excellent	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	8
KML13	Geotechnical test pit	Very Good	<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	1
			<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	36
KML14	Geotechnical test pit	Very Good	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	34
KML15	Geotechnical test pit	Excellent	No weeds					
KML16	Geotechnical test pit	Excellent	<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	1
KML17	Geotechnical test pit	Very Good	<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	8
KML18	Geotechnical test pit	Good	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	2 (2-5%)	100
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	6
			<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	2 (2-5%)	18
KML19	Geotechnical test pit	Good	<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	12
			<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	2 (2-5%)	117
			<i>Tribulus terrestris</i>	Adult		Healthy, suitable for spraying	1 (<2%)	1
SF01	Solar PV Farm	Excellent	No weeds					





Quadrat	Quadrat type	Condition	Weed species	Age structure	Lifecycle	Plant health	Cover Class	Number of plants
SF02	Solar PV Farm	Very Good	<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	2
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	4
SF03	Solar PV Farm	Excellent	No weeds					
SF04	Solar PV Farm	Excellent	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	1
SF05	Solar PV Farm	Very Good	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	2
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	3
SF06	Solar PV Farm	Excellent	No weeds					
SF07	Solar PV Farm	Excellent	No weeds					
SF08	Solar PV Farm	Very Good	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	5
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	6
HF01	PEC	Excellent	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	6
RP01	PEC	Good	<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	2 (2-5%)	21
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	2 (2-5%)	23
			<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	2 (2-5%)	45
PP02	PEC	Excellent	No weeds					
PP03	PEC	Very Good	<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	5
			<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	24





Quadrat	Quadrat type	Condition	Weed species	Age structure	Lifecycle	Plant health	Cover Class	Number of plants
			<i>Cenchrus ciliaris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	24
SV02	PEC	Excellent	<i>Portulaca oleracea</i>	Adult/Juvenile	Vegetative	Healthy, suitable for spraying	1 (<2%)	3
			<i>Tribulus terrestris</i>	Adult	Flowering	Healthy, suitable for spraying	1 (<2%)	1





Table A-2 Monitoring quadrat waypoints and photographs





Quadrat	Corner	Latitude	Longitude	Photograph
KML02	NW	-20.8048	116.6733	
	NE	-20.8048	116.6738	
	SE	-20.8053	116.6738	
	SW	-20.8053	116.6734	





Quadrat	Corner	Latitude	Longitude	Photograph
KML03	NW	-20.8052	116.6761	
	NE	-20.8051	116.6767	
	SE	-20.8056	116.6767	
	SW	-20.8056	116.6761	





Quadrat	Corner	Latitude	Longitude	Photograph
KML04	NW	-20.8087	116.6772	
	NE	-20.8087	116.6777	
	SE	-20.8092	116.6777	
	SW	-20.8091	116.6772	





Quadrat	Corner	Latitude	Longitude	Photograph
KML05	NW	-20.8089	116.6800	
	NE	-20.8089	116.6806	
	SE	-20.8094	116.6806	
	SW	-20.8094	116.6800	





Quadrat	Corner	Latitude	Longitude	Photograph
KML06	NW	-20.8124	116.6819	
	NE	-20.8124	116.6824	
	SE	-20.8128	116.6823	
	SW	-20.8128	116.6819	





Quadrat	Corner	Latitude	Longitude	Photograph
KML07	NW	-20.8159	116.6838	
	NE	-20.8158	116.6842	
	SE	-20.8163	116.6842	
	SW	-20.8163	116.6837	





Quadrat	Corner	Latitude	Longitude	Photograph
KML08	NW	-20.8183	116.6787	
	NE	-20.8183	116.6792	
	SE	-20.8188	116.6792	
	SW	-20.8188	116.6787	





Quadrat	Corner	Latitude	Longitude	Photograph
KML09	NW	-20.8146	116.6766	
	NE	-20.8146	116.6771	
	SE	-20.8151	116.6771	
	SW	-20.8151	116.6766	





Quadrat	Corner	Latitude	Longitude	Photograph
KML10	NW	-20.8110	116.6745	
	NE	-20.8110	116.6750	
	SE	-20.8115	116.6750	
	SW	-20.8115	116.6745	

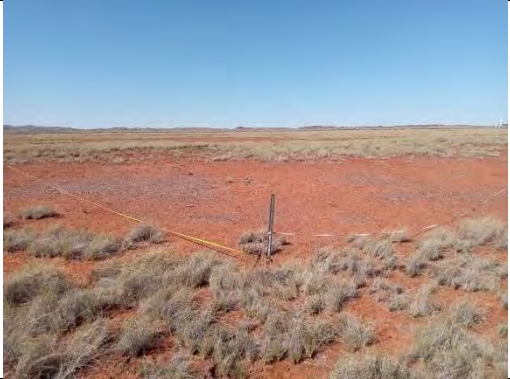



Quadrat	Corner	Latitude	Longitude	Photograph
KML11	NW	-20.8081	116.6704	
	NE	-20.8081	116.6710	
	SE	-20.8086	116.6709	
	SW	-20.8086	116.6705	




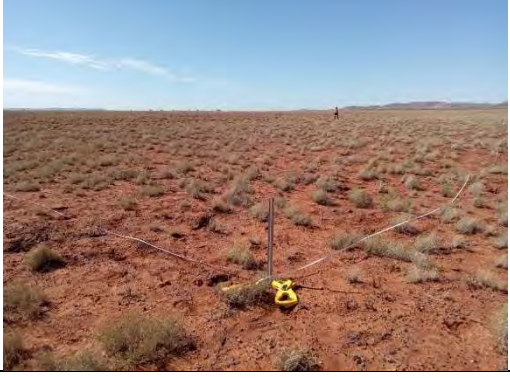
Quadrat	Corner	Latitude	Longitude	Photograph
KML12	NW	-20.8122	116.6720	
	NE	-20.8048	116.6738	
	SE	-20.8127	116.6725	
	SW	-20.8127	116.6721	

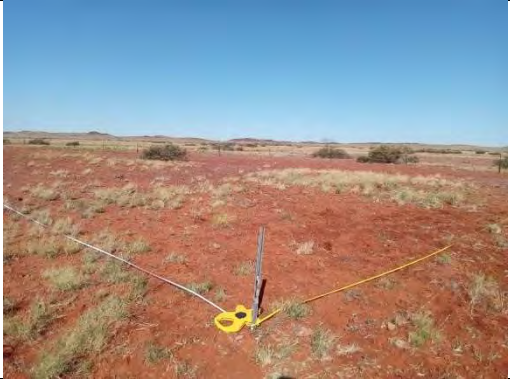



Quadrat	Corner	Latitude	Longitude	Photograph
KML13	NW	-20.8161	116.6743	
	NE	-20.81613	116.6748	
	SE	-20.8165	116.6748	
	SW	-20.8165	116.6742	





Quadrat	Corner	Latitude	Longitude	Photograph
KML14	NW	-20.8170	116.6760	
	NE	-20.8170	116.6765	
	SE	-20.8175	116.6765	
	SW	-20.8175	116.6760	





Quadrat	Corner	Latitude	Longitude	Photograph
KML15	NW	-20.8196	116.6774	
	NE	-20.8196	116.6779	
	SE	-20.8201	116.6779	
	SW	-20.8201	116.6774	


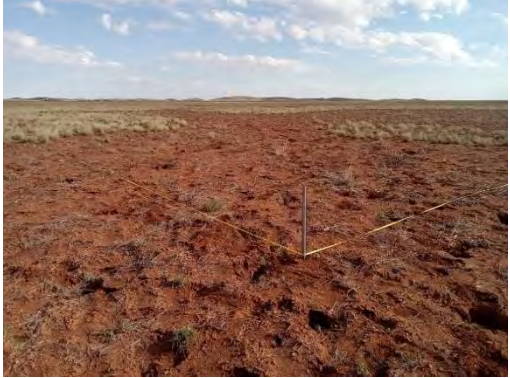


Quadrat	Corner	Latitude	Longitude	Photograph
KML16	NW	-20.8233	116.6797	
	NE	-20.8233	116.6802	
	SE	-20.8238	116.6803	
	SW	-20.8238	116.6797	





Quadrat	Corner	Latitude	Longitude	Photograph
KML17	NW	-20.8270	116.6823	
	NE	-20.8270	116.6828	
	SE	-20.8275	116.6829	
	SW	-20.8275	116.6824	





Quadrat	Corner	Latitude	Longitude	Photograph
KML18	NW	-20.8312	116.6841	
	NE	-20.8311	116.6845	
	SE	-20.8316	116.6841	
	SW	-20.8316	116.6847	





Quadrat	Corner	Latitude	Longitude	Photograph
KML19	NW	-20.8341	116.6852	
	NE	-20.8340	116.6858	
	SE	-20.8345	116.6858	
	SW	-20.8345	116.6852	





Quadrat	Corner	Latitude	Longitude	Photograph
SF01	NW	-20.8198	116.6802	
	NE	-20.8198	116.6807	
	SE	-20.8203	116.6807	
	SW	-20.8203	116.6802	





Quadrat	Corner	Latitude	Longitude	Photograph
SF02	NW	-20.8181	116.6848	
	NE	-20.8181	116.6853	
	SE	-20.8187	116.6854	
	SW	-20.8186	116.6849	





Quadrat	Corner	Latitude	Longitude	Photograph
SF03	NW	-20.8068	116.6722	
	NE	-20.8068	116.6728	
	SE	-20.8073	116.6728	
	SW	-20.8073	116.6723	





Quadrat	Corner	Latitude	Longitude	Photograph
SF04	NW	-20.8028	116.6743	
	NE	-20.8028	116.6748	
	SE	-20.8033	116.6748	
	SW	-20.8033	116.6743	





Quadrat	Corner	Latitude	Longitude	Photograph
SF05	NW	-20.8047	116.6803	
	NE	-20.8047	116.6809	
	SE	-20.8052	116.6808	
	SW	-20.8052	116.6803	





Quadrat	Corner	Latitude	Longitude	Photograph
SF06	NW	-20.8108	116.6698	
	NE	-20.8108	116.6701	
	SE	-20.8113	116.6703	
	SW	-20.8113	116.6698	





Quadrat	Corner	Latitude	Longitude	Photograph
SF07	NW	-20.8099	116.6835	
	NE	-20.8099	116.6839	
	SE	-20.8104	116.6839	
	SW	-20.8104	116.6834	





Quadrat	Corner	Latitude	Longitude	Photograph
SF08	NW	-20.8157	116.6866	
	NE	-20.8156	116.6871	
	SE	-20.8161	116.6871	
	SW	-20.8161	116.6866	

Quadrat	Corner	Latitude	Longitude	Photograph
HF01	NW	-20.8073	116.6836	
	NE	-20.8073	116.6841	
	SE	-20.8079	116.6841	
	SW	-20.8078	116.6836	

Quadrat	Corner	Latitude	Longitude	Photograph
RP01	NW	-20.8191	116.6892	
	NE	-20.8191	116.6898	
	SE	-20.8196	116.6897	
	SW	-20.8196	116.6892	

Quadrat	Corner	Latitude	Longitude	Photograph
PP02	NW	-20.8196	116.6680	
	NE	-20.8196	116.6685	
	SE	-20.8200	116.6685	
	SW	-20.8200	116.6680	

Quadrat	Corner	Latitude	Longitude	Photograph
PP03	NW	-20.8173	116.6707	
	NE	-20.8172	116.6713	
	SE	-20.8177	116.6712	
	SW	-20.8177	116.6707	

Quadrat	Corner	Latitude	Longitude	Photograph
SV02	NW	-20.8055	116.6708	
	NE	-20.8055	116.6713	
	SE	-20.8060	116.6713	
	SW	-20.8060	116.6708	

Appendix C Weed register

Location		Weed species	Number of plants	Cover class	Age structure	Lifecycle	Weed spraying required
Latitude	Longitude						
-20.8274	116.6828	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Fruiting	
-20.8270	116.6827	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	
-20.8194	116.6773	<i>Portulaca oleracea</i>	6	1 (<2%)	Juvenile	Vegetative	
-20.8106	116.6743	<i>Cenchrus ciliaris</i>	1	1 (<2%)	Adult	Flowering	
-20.8106	116.6744	<i>Cenchrus ciliaris</i>	1	1 (<2%)	Adult	Flowering	
-20.8106	116.6744	<i>Tribulus terrestris</i>	2	1 (<2%)	Adult	Flowering	
-20.8105	116.6745	<i>Tribulus terrestris</i>	1	1 (<2%)	Adult	Fruiting	
-20.8106	116.6746	<i>Cenchrus ciliaris</i>	37	3 (6%-25%)	Adult	Flowering	Yes
-20.8108	116.6745	<i>Cenchrus ciliaris</i>	12	2 (2%-5%)	Adult	Flowering	
-20.8109	116.6743	<i>Cenchrus ciliaris</i>	6	1 (<2%)	Adult	Flowering	
-20.8113	116.6739	<i>Cenchrus ciliaris</i>	12	2 (2%-5%)	Adult	Flowering	
-20.8111	116.6739	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8111	116.6735	<i>Cenchrus ciliaris</i>	7	1 (<2%)	Adult	Flowering	
-20.8111	116.6734	<i>Cenchrus ciliaris</i>	1	1 (<2%)	Adult	Flowering	
-20.8111	116.6734	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8110	116.6734	<i>Cenchrus ciliaris</i>	8	1 (<2%)	Adult	Flowering	
-20.8109	116.6741	<i>Tribulus terrestris</i>	6	1 (<2%)	Adult	Fruiting	
-20.8110	116.6744	<i>Tribulus terrestris</i>	12	2 (2%-5%)	Adult	Fruiting	
-20.8107	116.6744	<i>Tribulus terrestris</i>	1	1 (<2%)	Adult	Fruiting	
-20.8100	116.6767	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8091	116.6776	<i>Cenchrus ciliaris</i>	1	1 (<2%)	Adult	Flowering	
-20.8078	116.6813	<i>Vachellia farnesiana</i>	3	1 (<2%)	Adult	Vegetative	
-20.8078	116.6812	<i>Cenchrus ciliaris</i>	20	3 (6%-25%)	Adult	Flowering	Yes
-20.8078	116.6811	<i>Vachellia farnesiana</i>	2	2 (2%-5%)	Adult	Vegetative	
-20.8076	116.6809	<i>Cenchrus ciliaris</i>	20	3 (6%-25%)	Adult	Flowering	Yes
-20.8077	116.6808	<i>Tribulus terrestris</i>	8	1 (<2%)	Adult	Flowering	

Location		Weed species	Number of plants	Cover class	Age structure	Lifecycle	Weed spraying required
Latitude	Longitude						
-20.8077	116.6808	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8077	116.6807	<i>Vachellia farnesiana</i>	3	3 (6%-25%)	Adult	Vegetative	Yes
-20.8076	116.6807	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8075	116.6806	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8075	116.6807	<i>Cenchrus ciliaris</i>	30	3 (6%-25%)	Adult	Flowering	Yes
-20.8151	116.6854	<i>Vachellia farnesiana</i>	2	2 (2%-5%)	Adult	Vegetative	
-20.8108	116.6698	<i>Portulaca oleracea</i>	12	2 (2%-5%)	Adult/Juvenile	Vegetative	
-20.8082	116.6705	<i>Cenchrus ciliaris</i>	2	1 (<1%)	Adult	Flowering	
-20.8084	116.6715	<i>Cenchrus ciliaris</i>	6	1 (<1%)	Adult	Flowering	
-20.8084	116.6715	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	
-20.8084	116.6724	<i>Cenchrus ciliaris</i>	2	1 (<1%)	Adult	Flowering	
-20.8084	116.6728	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8085	116.6729	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8090	116.6732	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8095	116.6734	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8096	116.6733	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8091	116.6731	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8091	116.6731	<i>Cenchrus ciliaris</i>	5	1 (<1%)	Adult	Flowering	
-20.8090	116.6731	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8090	116.673	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8089	116.673	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8089	116.6729	<i>Tribulus terrestris</i>	3	1 (<1%)	Adult	Fruiting	
-20.8090	116.6729	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8083	116.6716	<i>Tribulus terrestris</i>	3	1 (<1%)	Adult	Fruiting	
-20.8082	116.6712	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	
-20.8081	116.6711	<i>Cenchrus ciliaris</i>	12	1 (<1%)	Adult	Flowering	
-20.8064	116.6713	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8069	116.67	<i>Vachellia farnesiana</i>	3	3 (6%-25%)	Adult	Vegetative	Yes
-20.8058	116.6709	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Flowering	

Location		Weed species	Number of plants	Cover class	Age structure	Lifecycle	Weed spraying required
Latitude	Longitude						
-20.8065	116.6714	<i>Tribulus terrestris</i>	9	1 (<1%)	Adult	Flowering	
-20.8067	116.6718	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Fruiting	
-20.8054	116.6725	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8053	116.6727	<i>Vachellia farnesiana</i>	4	3 (6%-25%)	Adult	Vegetative	Yes
-20.8056	116.6741	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8056	116.6741	<i>Cenchrus ciliaris</i>	17	2 (2%-5%)	Adult	Flowering	
-20.8049	116.6774	<i>Aerva javanica</i>	1	1 (<1%)	Adult	Flowering	
-20.8049	116.6775	<i>Aerva javanica</i>	6	1 (<1%)	Adult	Flowering	
-20.8049	116.6775	<i>Cenchrus ciliaris</i>	9	1 (<1%)	Adult	Flowering	
-20.8049	116.6776	<i>Aerva javanica</i>	1	1 (<1%)	Adult	Flowering	
-20.8048	116.6776	<i>Aerva javanica</i>	5	1 (<1%)	Adult	Flowering	
-20.8048	116.6777	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	
-20.8048	116.6774	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Flowering	
-20.8061	116.6781	<i>Vachellia farnesiana</i>	2	2 (2%-5%)	Adult	Vegetative	
-20.8082	116.6706	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8081	116.6704	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8079	116.6704	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8080	116.6705	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8081	116.6704	<i>Cenchrus ciliaris</i>	2	1 (<1%)	Adult	Flowering	
-20.8081	116.6705	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8081	116.6705	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Vegetative	
-20.8081	116.6705	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	
-20.8075	116.6703	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8075	116.6702	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8071	116.6699	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8073	116.6710	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8073	116.6708	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8074	116.6707	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8070	116.6699	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	

Location		Weed species	Number of plants	Cover class	Age structure	Lifecycle	Weed spraying required
Latitude	Longitude						
-20.8065	116.6714	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Vegetative	
-20.8049	116.6776	<i>Aerva javanica</i>	1	1 (<1%)	Adult	Flowering	
-20.8047	116.6805	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Vegetative	
-20.8110	116.6746	<i>Cenchrus ciliaris</i>	15	2 (2%-5%)	Adult	Flowering	
-20.8110	116.6748	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Fruiting	
-20.8110	116.6748	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Vegetative	
-20.8110	116.6747	<i>Tribulus terrestris</i>	4	1 (<1%)	Adult	Fruiting	
-20.8110	116.6746	<i>Cenchrus ciliaris</i>	3	1 (<1%)	Adult	Flowering	
-20.8111	116.6749	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	
-20.8112	116.6748	<i>Cenchrus ciliaris</i>	2	1 (<1%)	Adult	Flowering	
-20.8124	116.6756	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8121	116.6748	<i>Cenchrus ciliaris</i>	20	3 (6%-25%)	Adult	Flowering	Yes
-20.8120	116.6747	<i>Cenchrus ciliaris</i>	17	2 (2%-5%)	Adult	Flowering	
-20.8120	116.6747	<i>Vachellia farnesiana</i>	1	1 (<1%)	Adult	Vegetative	
-20.8121	116.6746	<i>Tribulus terrestris</i>	2	1 (<1%)	Adult	Vegetative	
-20.8088	116.6775	<i>Cenchrus ciliaris</i>	15	2 (2%-5%)	Adult	Flowering	
-20.8089	116.6775	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	
-20.8078	116.6811	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Flowering	
-20.8075	116.6807	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8159	116.6871	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Flowering	
-20.8144	116.6764	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8137	116.6765	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8137	116.6766	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8135	116.6766	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8137	116.6768	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Vegetative	
-20.8143	116.6772	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8142	116.6780	<i>Tribulus terrestris</i>	1	1 (<1%)	Adult	Flowering	
-20.8142	116.6780	<i>Vachellia farnesiana</i>	1	2 (2%-5%)	Adult	Vegetative	
-20.8144	116.6777	<i>Cenchrus ciliaris</i>	1	1 (<1%)	Adult	Flowering	



Pre-clearance Survey & Fauna Spotting

Maitland Solar Project (Stage 1)

Pacific Energy

2 Chisholm Crescent
Kewdale, WA 6105

Prepared by:

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SLR Project No.: 675.072587.00001

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Table of Contents

1.0 Introduction	3
1.1 Scope of Works	4
2.0 Methods	4
2.1 Camera Setting (Task 1)	4
2.2 Fauna Spotter and Relocation (Task 2)	4
2.3 Compliance Reporting (Task 3)	4
2.4 Fauna Licence	5
2.5 Field Activities	5
3.0 Results	6
3.1 Pre-Clearance Survey	6
3.2 Fauna Spotting	8
4.0 Closing	8

Tables in Text

Table 1: Environmental Management Actions from Environmental Approval	3
Table 2: Camera Trap Locations	5
Table 3: Details of Clearing activities and Inspections	5
Table 4: Fauna Records	6

1.0 Introduction

Pacific Energy commissioned SLR Consulting Australia Pty Ltd (SLR) to undertake pre-clearance surveys and fauna spotting works associated with the Maitland Solar Project. The Project is located approximately 15 km southwest of Karratha, Western Australia where the works undertaken focused on the proposed clearing areas only.

This program was undertaken to address the applicable environmental approval and several fauna related management actions which were required for the development of the project. These are outlined below in (**Table 1**) and formed the scope of this project.

Table 1: Environmental Management Actions from Environmental Approval

Environmental Approval Reference	Environmental Management Action
B3-4	Prior to ground disturbing activities the proponent must undertake the following actions:
(1)	Within seven (7) days prior to clearing, using a licenced fauna spotter , undertake pre-clearance surveys to detect presence of northern quoll (<i>Dasyurus hallucatus</i>) within clearing areas; and
(2)	Ground disturbing activities shall not commence until either: <ul style="list-style-type: none"> a) The individual has been relocated by the fauna spotter; or b) The individual has been observed by the fauna spotter to have moved from the area to adjoining suitable habitat; and c) The fauna spotter considers that the individual no longer occurs in the area.
B3-5	The proponent must undertake the following actions during construction activities :
(1)	Ensure the presence of fauna spotters during all ground disturbing activities ; and
(2)	Construction activities must cease in any area where northern quoll (<i>Dasyurus hallucatus</i>) are identified until: <ul style="list-style-type: none"> a) The individual has been relocated by a fauna spotter; or b) The individual has been observed by the fauna spotter to have moved on from the area to adjoining suitable habitat; and c) The fauna spotter considers that the individual no longer occurs in the area
B3-6	The proponent must produce and provide a report of fauna management no later than sixty (60) days after the completion of each stage of construction activities to the CEO , the report shall include the following
(1)	Details of fauna inspections
(2)	Dates and details of clearing activities for each area inspected
(3)	The number and type of fauna removed and relocated, and actions taken
(4)	Details of fauna spotter commissioned
(5)	Result of the pre-clearance surveys ; and
(6)	Vertebrate fauna mortalities

1.1 Scope of Works

The scope of works for this program was defined as:

- Undertake a pre-clearance survey using baited camera traps to detect for the presence of the Northern Quoll (*Dasyurus hallucatus*) within the proposed clearing areas.
- Undertake fauna spotting for the duration of clearing activities on site.
- Provide a compliance report that summarises the results of both the preclearance survey and fauna spotting works.

2.0 Methods

Both the pre-clearance survey and fauna spotting works was undertaken by SLR Ecologist Lachlan Crossley from the 4 - 11 June 2024 and 11 - 14 June 2024, respectively.

Lachlan is an experienced zoologist/ecologist with six years relevant fauna experience and has undertaken numerous environmental surveys and fauna spotting works across several regions within Western Australia (WA) and the Northern Territory (NT).

Below summarises the tasks undertaken as part of this project:

2.1 Camera Setting (Task 1)

- Deploy baited cameras attached to a fence dropper at each proposed drill pad site (16 in total) (**Table 2**).
- Leave cameras deployed for a total of seven consecutive nights.
- Collect the cameras and analyse the data for the presence of Northern Quoll (*Dasyurus hallucatus*) the day before the commencement of clearing.

2.2 Fauna Spotter and Relocation (Task 2)

- Conduct a preclearance inspection of each site immediately before clearing.
- Check for fauna during clearing and relocate or euthanise (if required).
- Conduct a final inspection of the site upon the completion of earthworks.
- Record the locations and species names of all fauna taxa recorded, relocated and/or euthanised. This data will be provided to the client upon completion of clearing.

2.3 Compliance Reporting (Task 3)

- Provide a brief summary report that includes the following information:
 - Details of fauna inspections
 - Dates and details of clearing activities for each area inspected
 - The number and type of fauna removed and relocated, and actions taken
 - Details of fauna spotter commissioned
 - Results of the pre-clearance surveys
 - Vertebrate fauna mortalities.

Table 2: Camera Trap Locations

Site Number	Pacific Energy Site Name	Camera	Lat/long (WGS84)
01	TP-SF-TP-09	D3	-20.8340232186, 116.685362996
02	TP-SF-TP-08	B22	-20.8311292675, 116.68413876
03	TP-SF-TP-07	C18	-20.8270067435, 116.682330861
04	TP-SF-TP-06	C3	-20.8232968183, 116.67974822
05	TP-SF-TP-05	E09	-20.8195962947, 116.677388558
06	TP-SF-TP-04	C19	-20.8160567519, 116.674320018
07	TP-SF-TP-03	E02	-20.8123283, 116.6720783
08	TP-SF-TP-02	B29	-20.8080613424, 116.670442832
09	TP-SF-TP-01	B11	-20.8048968742, 116.673395547
10	TP-SF-TP+TR+ER-01	C9	-20.8051749603, 116.676156336
11	TP-SF-TP+TR-01	E10	-20.8086756764, 116.677170977
12	TP-SF-ER-02	C20	-20.812351389, 116.681897656
13	TP-SF-TP+TR-02	C13	-20.815847, 116.6837142
14	TP-SF-TP+TR-03	C17	-20.8183132954, 116.67874
15	TP-SF-TP+TR+ER-02	C7	-20.8145956518, 116.676620672
16	TP-SF-ER-01	C2	-20.8109240522, 116.674462475

2.4 Fauna Licence

All fauna related works was completed under Fauna Taking (Biological Assessment) License – Regulation 27 (BA27001064) and an authorisation to take or disturb threatened species under Section 40 of the BC Act (TFA 2324-0278). SLR Consulting has provided Pacific Energy with a copy of the fauna licence related to this project. All field activities were carried out in accordance with the terms and conditions of the fauna licence and where applicable DBCA standard operating procedures.

2.5 Field Activities

The dates that each site was cleared and inspected are summarised in **Table 3**.

Table 3: Details of Clearing activities and Inspections

Order	Site	Date of Clearing	Date of Inspections
1	TP-SF-TP-09	12/06/2024	12/06/2024
2	TP-SF-TP-08	12/06/2024	12/06/2024
3	TP-SF-TP-07	12/06/2024	12/06/2024
4	TP-SF-TP-06	12/06/2024	12/06/2024
5	TP-SF-TP-05	12/06/2024	12/06/2024

Order	Site	Date of Clearing	Date of Inspections
6	TP-SF-TP-04	12/06/2024	12/06/2024
7	TP-SF-TP-03	12/06/2024	12/06/2024
8	TP-SF-TP-02	13/06/2024	13/06/2024
9	TP-SF-TP-01	13/06/2024	13/06/2024
10	TP-SF-TP+TR+ER-01	13/06/2024	13/06/2024
11	TP-SF-TP+TR-01	13/06/2024	13/06/2024
12	TP-SF-ER-02	13/06/2024	13/06/2024
13	TP-SF-TP+TR-02	13/06/2024	13/06/2024
14	TP-SF-TP+TR-03	13/06/2024	13/06/2024
15	TP-SF-TP+TR+ER-02	13/06/2024	13/06/2024
16	TP-SF-ER-01	13/06/2024	13/06/2024

3.0 Results

3.1 Pre-Clearance Survey

No evidence of the Northern Quoll (*Dasyurus hallucatus*) or any other significant fauna was recorded during the pre-clearance surveys within the clearing areas.

A total of eight fauna taxa from eight families were recorded during the pre-clearance survey. Of these eight taxa, one introduced species was recorded (**Table 4**). Images of some of the fauna taxa are shown in (**Plate 1-3**).

Table 4: Fauna Records

Scientific Name	Common Name	Observation Method	Abundance
Avian			
<i>Corvus coronoides</i>	Australian Raven	Camera	1
<i>Falco cenchroides</i>	Australian Kestrel	Camera	5
<i>Grallina cyanoleuca</i>	Magpie-lark	Camera	1
Mammalian			
* <i>Felis catus</i>	Cat	Camera	1
<i>Sminthopsis sp.</i>		Camera	25
Reptilian			
<i>Ctenotus sp.</i>		Camera	3
<i>Pseudechis australis</i>	Mulga Snake	Camera	1
<i>Tympanocryptis cephalus</i>	Pebble Dragon	Sighting	1

*Denotes introduced species



Plate 1: Australian Kestrel (*Falco cenchroides*) photographed at TP-SF-TP-05 (Camera E09).



Plate 2: Mulga Snake (*Pseudechis australis*) photographed at TP-SF-TP+TR-01 (Camera E10).



Plate 3: Pebble Dragon (*Tympanocryptis cephalus*) photographed by Lachlan Crossley at TP-SF-TP-05 outside the clearing area at site during clearing

3.2 Fauna Spotting

There was no vertebrate fauna removed or relocated for the duration of the fauna spotting works. In addition, there were no vertebrate fauna mortalities recorded and therefore, no actions were required.

4.0 Closing

We trust this meets your requirements at this time. Should you have any questions or require further action please do not hesitate to contact myself, Lachlan Crossley or Scott Walker.

Yours sincerely

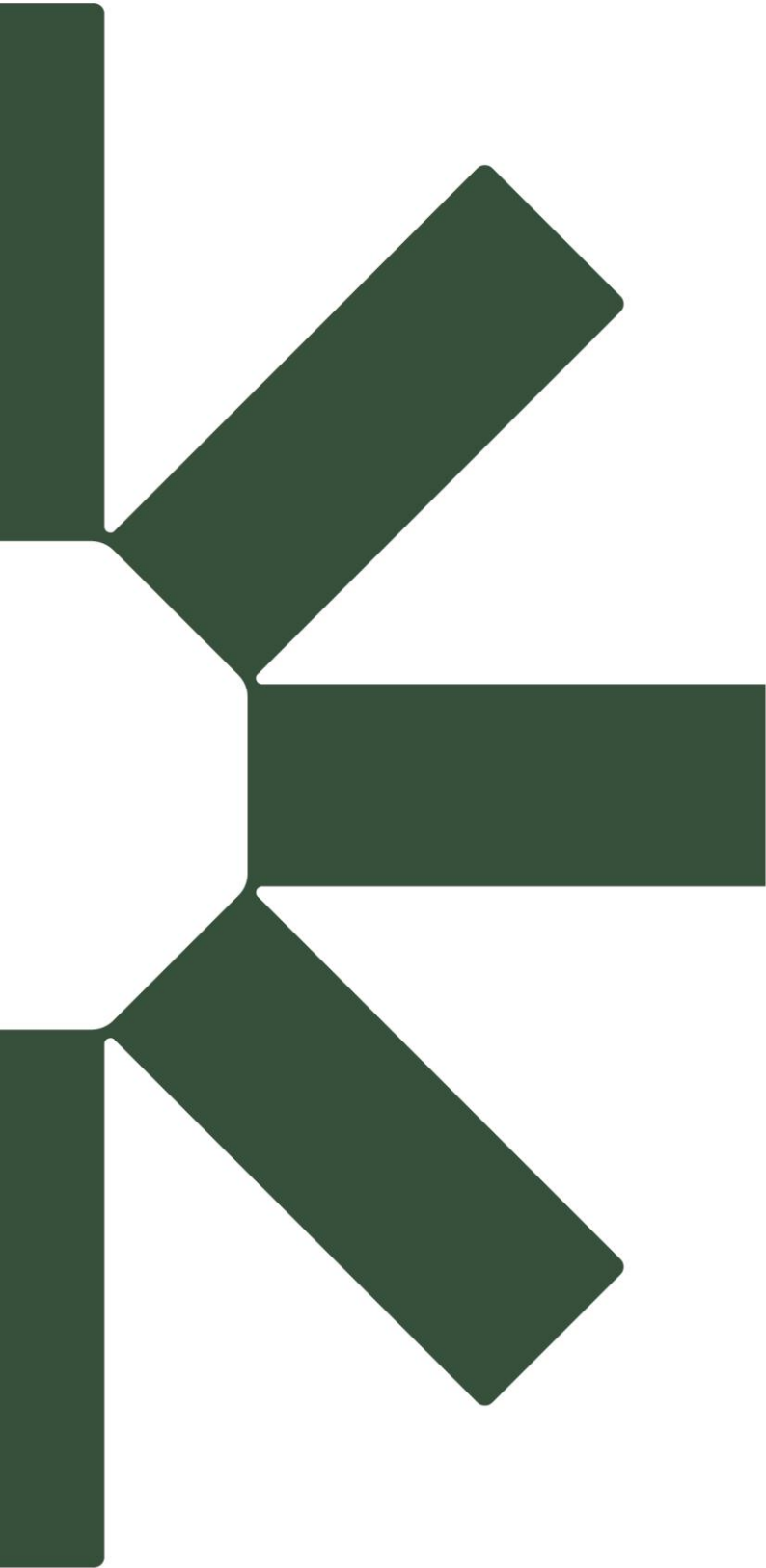
SLR Consulting Australia

A handwritten signature in black ink that reads "Lachlan Crossley". The signature is written in a cursive, flowing style.

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