



APPENDIX H ABORIGINAL CULTURAL
ASSESSMENT REPORT



The Plains Renewable Energy Park - Wind Farm

Aboriginal Cultural Heritage
Assessment Report

PREPARED FOR



ENGIE Australia and New Zealand

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The Plains Renewable Energy Park - Wind Farm

Aboriginal Cultural Heritage Assessment Report

0667692



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CONTENTS

EXECUTIVE SUMMARY	1
1. INTRODUCTION	5
1.1 OBJECTIVES	5
1.2 DESCRIPTION OF THE PROPOSED DEVELOPMENT	5
1.3 LOCATION AND DESCRIPTION OF THE PROJECT AREA	9
1.4 METHODOLOGY	10
1.5 SECRETARY'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS (SEARS)	10
1.6 AUTHORSHIP	11
1.7 LIMITATIONS	12
1.8 ACKNOWLEDGEMENTS	12
2. LEGISLATION AND GUIDELINES	13
2.1 COMMONWEALTH LEGISLATION	13
2.1.1 Environmental Protection and Biodiversity Conservation Act 1999	13
2.1.2 Aboriginal and Torres Strait Islander Heritage Protection Act 1984	13
2.2 NSW LEGISLATION	13
2.2.1 NSW Environmental Planning and Assessment Act 1979	13
2.2.2 NSW National Parks and Wildlife Act 1974	14
2.2.3 Heritage Act 1977 (NSW)	14
2.2.4 Native Title Act 1994	15
2.2.5 Aboriginal Land Right Act 1983	15
2.3 NON-STATUTORY CONSIDERATIONS	16
2.3.1 Leading Practice Principles: First Nations and Renewable Energy Projects (Clean Energy Council 2024)	16
3. ASSESSMENT METHODOLOGY	17
3.1 DESKTOP INVESTIGATION	17
3.2 ABORIGINAL COMMUNITY CONSULTATION	17
3.3 ABORIGINAL HERITAGE SURVEY	17
3.4 RECORDING AND ASSESSMENT METHODOLOGY	18
3.4.1 Previously recorded Aboriginal sites	18
3.4.2 Newly identified sites	18
3.4.3 Assessment of archaeological potential	18
3.4.4 Cultural heritage values assessment	18
3.5 IMPACT ASSESSMENT	19
4. ABORIGINAL COMMUNITY CONSULTATION	20
4.1 STAGE 1: NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST	20
4.2 STAGE 2: PRESENTATION OF INFORMATION ABOUT THE PROPOSED PROJECT	21
4.3 STAGE 3: GATHERING INFORMATION ABOUT CULTURAL SIGNIFICANCE	22
4.4 STAGE 4: REVIEW OF DRAFT HERITAGE REPORT	22

5.	ENVIRONMENTAL BACKGROUND	23
5.1	BIOREGION	23
5.2	GEOLOGY AND GEOMORPHOLOGY	24
5.3	LANDFORM	26
5.4	SOILS	29
5.5	HYDROLOGY	32
5.6	FLORA AND FAUNA	35
6.	ABORIGINAL ARCHAEOLOGICAL BACKGROUND	37
6.1	ETHNOGRAPHIC HISTORY	37
6.2	ABORIGINAL HERITAGE INFORMATION MANAGEMENT SYSTEM	40
6.3	AHIP REGISTER	41
6.4	REGIONAL ARCHAEOLOGICAL BACKGROUND	42
6.4.1	Existing Regional Predictive Models	42
6.4.2	Local Archaeological Context	44
6.4.3	Preliminary predictive model	49
7.	HISTORICAL CONTEXT	51
7.1	HISTORICAL OVERVIEW	51
7.2	HISTORICAL HERITAGE DATABASE SEARCHES	56
7.2.1	Statutory Heritage Register Searches	56
7.2.2	Non-Statutory Considerations	57
8.	SURVEY METHODOLOGY	58
8.1	AIMS	58
8.2	METHODOLOGY AND COVERAGE	58
8.3	PARTICIPANTS	58
8.4	SURVEY COVERAGE	61
8.5	SURVEY UNITS	63
9.	SURVEY RESULTS – ABORIGINAL HERITAGE VALUES	78
9.1	REGISTERED ABORIGINAL HERITAGE SITES	78
9.2	NEWLY IDENTIFIED ABORIGINAL SITES	78
9.3	ABORIGINAL ARCHAEOLOGICAL POTENTIAL	80
9.4	DISCUSSION	80
10.	SURVEY RESULTS – HISTORIC HERITAGE VALUES	82
10.1	REGISTERED HISTORIC HERITAGE SITES	82
10.2	NEWLY IDENTIFIED HISTORIC HERITAGE SITES	82
10.3	HISTORICAL ARCHAEOLOGICAL POTENTIAL	82
11.	SIGNIFICANCE ASSESSMENT – ABORIGINAL HERITAGE	83
11.1	ABORIGINAL CULTURAL HERITAGE SIGNIFICANCE ASSESSMENT FRAMEWORK	83

11.2 IDENTIFYING CULTURAL VALUES	83
11.2.1 Social or Cultural Significance	85
11.2.2 Historic Significance	85
11.2.3 Scientific Significance	85
11.2.4 Aesthetic Significance	87
11.2.5 Aboriginal Heritage Statement of Significance	87
12. IMPACT ASSESSMENT	88
12.1 POTENTIAL IMPACTS	88
12.2 ECOLOGICALLY SUSTAINABLE DEVELOPMENT PRINCIPLES	92
12.2.1 The Precautionary Principle	92
12.2.2 The Principle of Intergenerational Equity	92
12.3 CUMULATIVE IMPACTS	92
13. RECOMMENDATIONS AND MANAGEMENT MEASURES	93
13.1 ABORIGINAL HERITAGE	93
13.1.1 Aboriginal Heritage Recommendations	93
13.2 HISTORIC HERITAGE	96
13.2.1 Historic Heritage Recommendations	96
14. REFERENCES	98
APPENDIX A CONSULTATION LOG	
APPENDIX B AGENCY NOTIFICATION LETTER	
APPENDIX C AGENCY RESPONSES	
APPENDIX D INVITATION TO REGISTER LETTER	
APPENDIX E ADVERTISEMENT	
APPENDIX F REGISTERED RAP GROUPS	
APPENDIX G SECTION 4.1.6 NOTIFICATION LETTER	
APPENDIX H METHODOLOGY	
APPENDIX I AHIMS SEARCH RESULTS	
APPENDIX J ABORIGINAL HERITAGE SITE DETAILS	

LIST OF TABLES

TABLE 1-1	PROJECT AREA LOT AND DP DETAILS	9
TABLE 1-2	SUMMARY OF SEARS REQUIREMENTS FOR ABORIGINAL CULTURAL HERITAGE AND WHERE ADDRESSED IN THE CURRENT REPORT.	11
TABLE 1-3	SUMMARY OF AUTHORS AND REVIEWERS QUALIFICATIONS	11
TABLE 4-1	REGISTERED ABORIGINAL PARTIES	21
TABLE 5-1	SUMMARY OF KEY LANDFORMS WITHIN THE RIVERINA AND HAY PLAIN	26
TABLE 5-2	MITCHELL LANDSCAPES WITHIN THE PROJECT AREA	27
TABLE 5-3	SOIL LANDSCAPES	29
TABLE 6-1	AHIMS SEARCH PARAMETERS (SEPTEMBER 2022)	40
TABLE 6-2	AHIMS REGISTERED SITE TYPES (SEPTEMBER 2022)	40
TABLE 6-3	AHIMS DATABASE SEARCH PARAMETERS (OCTOBER 2023)	41
TABLE 6-4	AHIMS REGISTERED SITE TYPES (OCTOBER 2023)	41
TABLE 6-5	AHIP PERMIT DETAILS AND CONDITIONS	42
TABLE 8-1	SURVEY ATTENDANCE	59
TABLE 8-2	SURVEY COVERAGE SUMMARY – SUS	61
TABLE 8-3	SURVEY COVERAGE SUMMARY – LANDFORMS (AS DESCRIBED BY ABORIGINAL HERITAGE SENSITIVITY)	63
TABLE 8-4	WIND FARM SURVEY UNITS	65
TABLE 9-1	SUMMARY OF NEWLY IDENTIFIED SITES	78
TABLE 10-1	GRADING OF ARCHAEOLOGICAL POTENTIAL	82
TABLE 11-1	CULTURAL HERITAGE VALUES IDENTIFIED FOR THE PROJECT AREA AND SURROUNDS	84
TABLE 11-2	SCIENTIFIC SIGNIFICANCE ASSESSMENT OF ABORIGINAL SITES PRESENT	85
TABLE 12-1	POTENTIAL IMPACTS TO ABORIGINAL CULTURAL HERITAGE SITES ASSOCIATED WITH PROPOSED PROJECT LAYOUT	88

LIST OF FIGURES

FIGURE 1-1	PROJECT AREA	7
FIGURE 1-2	PROPOSED WIND FARM DEVELOPMENT	8
FIGURE 5-1	UNDERLYING GEOLOGY OF THE PROJECT AREA	25
FIGURE 5-2	MITCHELL LANDSCAPES ACROSS THE PROJECT AREA	28
FIGURE 5-3	ILLUSTRATION OF SOIL DEVELOPMENT WITH INCREASING DISTANCE FROM PALAEOCHANNEL LANDFORMS (SOIL CONSERVATION SERVICES OF NSW 1990: 64)	30
FIGURE 5-4	SOILS ACROSS THE PROJECT AREA	31
FIGURE 5-5	PHASES OF PALEOCHANNELS ACROSS THE RIVERINA, APPROXIMATE LOCATION OF PROJECT AREA SHOWN IN RED (PAGE ET AL 2009: 22)	32
FIGURE 5-6	HYDROLOGICAL LANDSCAPE	34
FIGURE 5-7	DISTRIBUTION OF SELECTED CULTURALLY IMPORTANT WETLAND SPECIES (DUFFY 2016 IN CHARLES STURT UNIVERSITY 2016). APPROXIMATE LOCATION OF THE PLAINS RENEWABLE ENERGY PARK CIRCLED IN RED.	36
FIGURE 6-1	TINDALE 1940 MAP OF ABORIGINAL TRIBES AND LANGUAGE GROUPS. RED CIRCLE SHOWING APPROXIMATE LOCATION OF THE PROJECT AREA (SL.NSW.GOV.AU)	37
FIGURE 6-2	SURVEY AREA OF EASTERN SECTION OF ENERGYCONNECT TRAVERSING CURRENT PROJECT AREA (BOXED IN WHITE) (NAVIN OFFICER HERITAGE CONSULTANTS, 2022: 432, APPENDIX 5)	45
FIGURE 7-1	DETAIL OF 'DIRECT ROUTE TO HAY FROM WAGGA WAGGA' (C.1881) SHOWING PROJECT AREA WITHIN SEVERAL PASTORAL RUNS (STATE LIBRARY NSW, M2 814.2/1881/1).	53
FIGURE 7-2	DETAIL OF 'PLAN SHOWING MURRUMBIDGEE RIVER DISTRICT' (1901), SHOWING PROJECT AREA (OUTLINED RED) AND HAY TO NORTH (ARROWED) (STATE LIBRARY NSW, Z/M3 814/1901/1).	54
FIGURE 7-3	DETAIL OF PLAN OF ELI-ELWAH HOLDING (N.D, C.1884), SHOWING STRUCTURES WITHIN THE EASTERN PORTION OF THE PROJECT AREA INCLUDING 5 TANKS AND A WELL (HISTORICAL LANDS RECORD VIEWER, HTTPS://HLRV.NSWLRS.COM.AU/)	55
FIGURE 8-1	SURVEY UNITS	64
FIGURE 9-1	ABORIGINAL HERITAGE SITES WITHIN THE PROJECT AREA	79
FIGURE 9-2	ABORIGINAL HERITAGE SENSITIVITY MAPPING	81

ACRONYMS AND ABBREVIATIONS

Acronyms	Description
AAR	Aboriginal Ancestral Remains
AC	Alternating Current
ACHAR	Aboriginal Cultural Heritage Assessment Report
ACHMP	Aboriginal Cultural Heritage Management Plan
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
AMSL	Above Mean Sea Level
ATSIHP Act	Aboriginal and Torres Strait Islander Heritage Protection Act 1984
BESS	Battery Energy Storage System
CHL	Commonwealth Heritage List
CMT	Culturally Modified Tree
EIS	Environmental Impact Statement
EP&A Act	Environmental Planning and Assessment Act 1979
EP&A Regulation	NSW Environmental Planning and Assessment Regulation 2000
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
ERM	Environmental Resources Management Australia Pty Ltd
ESD	Ecologically Sustainable Development
DC	Direct Current
GDA	Geocentric Datum of Australia
GPS	Global Positioning System
GWh	Gigawatt hours
ha	Hectares
ICOMOS	International Council on Monuments and Sites
IHO	Interim Heritage Order
ka	One thousand years ago (kilo annum)
km	Kilometres
kV	kilovolt
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
m	Metres
MW	Megawatt
MWh	Megawatt-hours
MWn	Nominal megawatt

Acronyms	Description
MWp	Megawatt peak
NEM	National Electricity Market
NHL	National Heritage List
NPW Act	National Parks and Wildlife Act 1974
NSW	New South Wales
NTS Corp	Native Title Services Corporation
O&M	Operations and Maintenance
PAD	Potential Archaeological Deposit
PREP	The Plains Renewable Energy Park
PV	Photovoltaic
RAP	Registered Aboriginal Party
RNE	Register of National Estate
SEARs	Secretary's Environmental Assessment Requirements
SHR	State Heritage Register
SSD	State Significant Development
SU	Survey Unit
WTG	Wind Turbine Generator

ERM would like to acknowledge the Traditional Owners of the Hay region and pay respects to their Elders past, present, and emerging. We acknowledge and respect their Indigenous knowledge systems and recognise continuing connection to lands, waters, culture, and community.

EXECUTIVE SUMMARY

Engie Australia and New Zealand (Engie) is proposing to construct, operate, and maintain The Plains Wind Farm, in the Riverina Murray region of New South Wales (NSW). The Plains Wind Farm, plus ancillary infrastructure will be assessed as a State Significant Development (SSD) development application under the NSW *Environmental Planning and Assessment Act 1979*.

Engie has engaged Environmental Resources Management Australia Pty Ltd to prepare Aboriginal Cultural Heritage Assessment Reports (ACHAR) for the Plains Wind Farm. This ACHAR has been developed to support an Environmental Impact Statement (EIS) for the Project.

The Project Area is located approximately 15 km south of Hay, and is within the boundary of Hay Local Aboriginal Land Council. This ACHAR has been prepared to identify, assess, and develop management recommendations for any identified Aboriginal Cultural Heritage within the Project area. This ACHAR provides details of the proposed assessment and survey methodology for the Project. Preparation has included Aboriginal community consultation with the Registered Aboriginal Parties (RAPs) who have expressed interest in the overall Project. RAPs were provided the methodology and this ACHAR for review and comment.

This report also describes historic heritage material that was recorded during the surveys. Due to the limited nature of this material, ERM has determined that a separate report addressing historic heritage values was unnecessary and has assessed the potential impacts to historic heritage in this report with regards to the NSW Heritage Manual.

Field surveys to inform this ACHAR were undertaken by ERM and RAP representatives between 4 April and 14 April 2023; and between 8 August and 16 August 2023.

The following is a summary of the findings of this ACHAR:

- There are no registered historic heritage sites within or in the vicinity of the Project area;
- A total of 48 previously registered Aboriginal sites are within the Project area, consisting of Artefacts, Hearths, Modified Trees and Earth Mounds. 41 of these sites are valid;
- A total of 93 new Aboriginal sites with similar features to the previously recorded AHIMS sites were identified within the Project area during the development of this ACHAR (comprising Artefacts, Hearths, PADs, and Modified Trees); and
- Based on the current development footprint potential harm to 54 sites has been identified.

Proposed key measures to manage and mitigate impacts to identified heritage sites are summarised below:

- Preservation and management of Aboriginal sites and heritage values will form a key objective of development controls for the Project. Consultation between Engie and Hay LALC in August 2023 resulted in agreed future changes to the Project design to avoid impacting Aboriginal sites. A buffer of 200 m will be provided to recorded PADs, and a buffer of 100 m will be provided to recorded hearths. ERM also recommends that a buffer of at least 50 m be provided to recorded Culturally Modified Trees (CMTs);
- An Aboriginal Cultural Heritage Management Plan (ACHMP) should be developed to record and describe the processes and procedures required to be implemented regarding Aboriginal cultural heritage prior and during the construction and operational phases of the Project. This should be developed in partnership with the Traditional Owners and should at a minimum include:
 - Any required archaeological test or salvage excavations for the 54 sites which would be harmed within the current development footprint:
 - PREP SU A 01: Artefact; PAD;
 - PREP SU A 02: Artefact;
 - PREP SU B 01: Artefact; PAD;
 - PREP SU C 04: Artefact;
 - PREP SU C 05: Artefact;
 - PREP SU C 08: Artefact, Hearth, PAD;
 - PREP SU C 09: Artefact;
 - PREP SU C 12: Artefact; PAD;
 - PREP SU C 14: Artefact;
 - PREP SU C 15: Artefact;
 - PREP SU D 01: PAD;
 - PREP SU D 02: Artefact;
 - PREP SU D 03: Artefact;
 - PREP SU D 04: Artefact, PAD; Hearth;
 - PREP SU D 05: Artefact;
 - PREP SU D 06: Artefact;
 - PREP SU D 08: Artefact; PAD;
 - PREP SU E 05: Artefact;
 - PREP SU E 06: Artefact, PAD;
 - PREP SU E 07: Artefact, Hearth;
 - PREP SU E 08: Artefact;
 - PREP SU E 09: Artefact;
 - PREP SU E 11: Artefact, PAD;
 - PREP SU E 16: Artefact;
 - PREP SU E 17: Artefact;

- PREP SU F 08: Artefact, PAD;
 - PREP SU F 10: Artefact;
 - PREP SU F 11: Artefact, PAD;
 - PREP SU F 12: Artefact, Hearth, PAD;
 - PREP SU F 13: Artefact;
 - PREP SU F 14: Artefact;
 - PREP SU F 15: Artefact, Hearth;
 - PREP SU F 16: Artefact, PAD;
 - PREP SU F 17: Hearth;
 - PREP SU F 18: Artefact, Hearth;
 - PREP SU F 21: Artefact;
 - PREP SU F 22: Artefact;
 - PREP SU G 02: Artefact;
 - PREP SU G 04: Artefact;
 - PREP SU G 05: Artefact;
 - PREP SU G 06: Artefact;
 - PREP SU G 08: Artefact;
 - PREP SU H 01: Artefact;
 - PREP SU H 03: Artefact, Hearth;
 - PREP SU H 05: Artefact;
 - PREP SU C 06: Artefact;
 - PREP SU C 10: Artefact;
 - PREP SU F 06: Artefact, Hearth, PAD;
 - PREP SU G 07: Artefact, PAD;
 - PREP SOLAR 04: Artefact, PAD;
 - PREP SOLAR 05: Artefact;
 - PREP SOLAR 06: Artefact;
 - PREP SOLAR 07: Artefact, PAD; and
 - PREP SOLAR 08: Artefact.
- o Hay LALC and Nari Nari Tribal Council, during the consultation process, requested that this test or salvage excavation should be completed under the authorisation of the Minister's Conditions of Approval, to avoid unnecessary impact to sites. This request was supported by ERM, in accordance with *Leading Practice Principles: First Nations and Renewable Energy Projects*, namely Principles 1 and 3, which focus on respectful engagement and the preservation and protection of cultural heritage. Therefore, the final design for the project should be informed by the results of test excavation. Should test excavation determine that sites are significant, micro-siting of project elements should occur to avoid impact to these sites;
 - o Measures to manage archaeological material that needs to be relocated away from development activities;

- Measures to protect and conserve archaeological material that will not be impacted by development activities;
- The requirements regarding heritage training and inductions for employees and contractors;
- Any requirements regarding monitoring of ground disturbance activities by Traditional Owners;
- The development and provision of cultural awareness training by Traditional Owners;
- An Unexpected Finds Protocol;
- Areas within the extents of earth mounds, burials, or potential archaeological deposit sites that may be subject to impact from the Project should be subject to archaeological test excavation and be included within the ACHMP;
- The Applicant (Engie) should liaise between the landholders and the Traditional Owners to develop appropriate stock management strategies to limit the further disturbance and damage to Aboriginal heritage sites;
- The Applicant should consider the appointment and training of a Traditional Owner liaison/s to coordinate appropriately informed access for staff and contractors to culturally sensitive areas and provide cultural awareness training; and
- The historical archaeological potential of the Project area has been assessed as Nil-Low. However, in the event that relics (defined by the Heritage Act 1977 as 'any deposit, artefact, object or material evidence that relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and is of State or local heritage significance') are unexpectedly recovered during the proposed works, all works should cease immediately, and an Unexpected Finds Protocol should be implemented.

1. INTRODUCTION

Engie Australia and New Zealand (Engie; the Applicant) is proposing to construct, operate, and maintain The Plains Wind Farm, located approximately 15 km south of Hay, in the Riverina Murray region of New South Wales (NSW). The Plains Wind Farm, plus ancillary infrastructure will be assessed as a State Significant Development (SSD) development application under the NSW *Environmental Planning and Assessment Act 1979*.

Environmental Resources Management Australia Pty Ltd (ERM) was commissioned by the Applicant to prepare Aboriginal Cultural Heritage Assessment Reports (ACHAR) for the Plains Wind Farm. This ACHAR has been developed to support an Environmental Impact Statement (EIS) for the Project.

1.1 OBJECTIVES

This report aims to:

- Identify Aboriginal heritage resources within the Project area, including archaeological and intangible cultural heritage values;
- Present the results of Aboriginal community consultation undertaken during the preparation of this report;
- Review relevant historic and Aboriginal heritage databases;
- Review historical and environmental contextual data;
- Utilise sourced background information to develop predictive models for the presence of Aboriginal heritage within the Project area;
- Document the results of an Aboriginal and historic heritage field survey;
- Assess the significance of identified Aboriginal heritage values;
- Evaluate the impact of the proposed works on any identified Aboriginal heritage resources; and
- Provide recommendations for the mitigation of impacts and management of identified Aboriginal heritage resources.

1.2 DESCRIPTION OF THE PROPOSED DEVELOPMENT

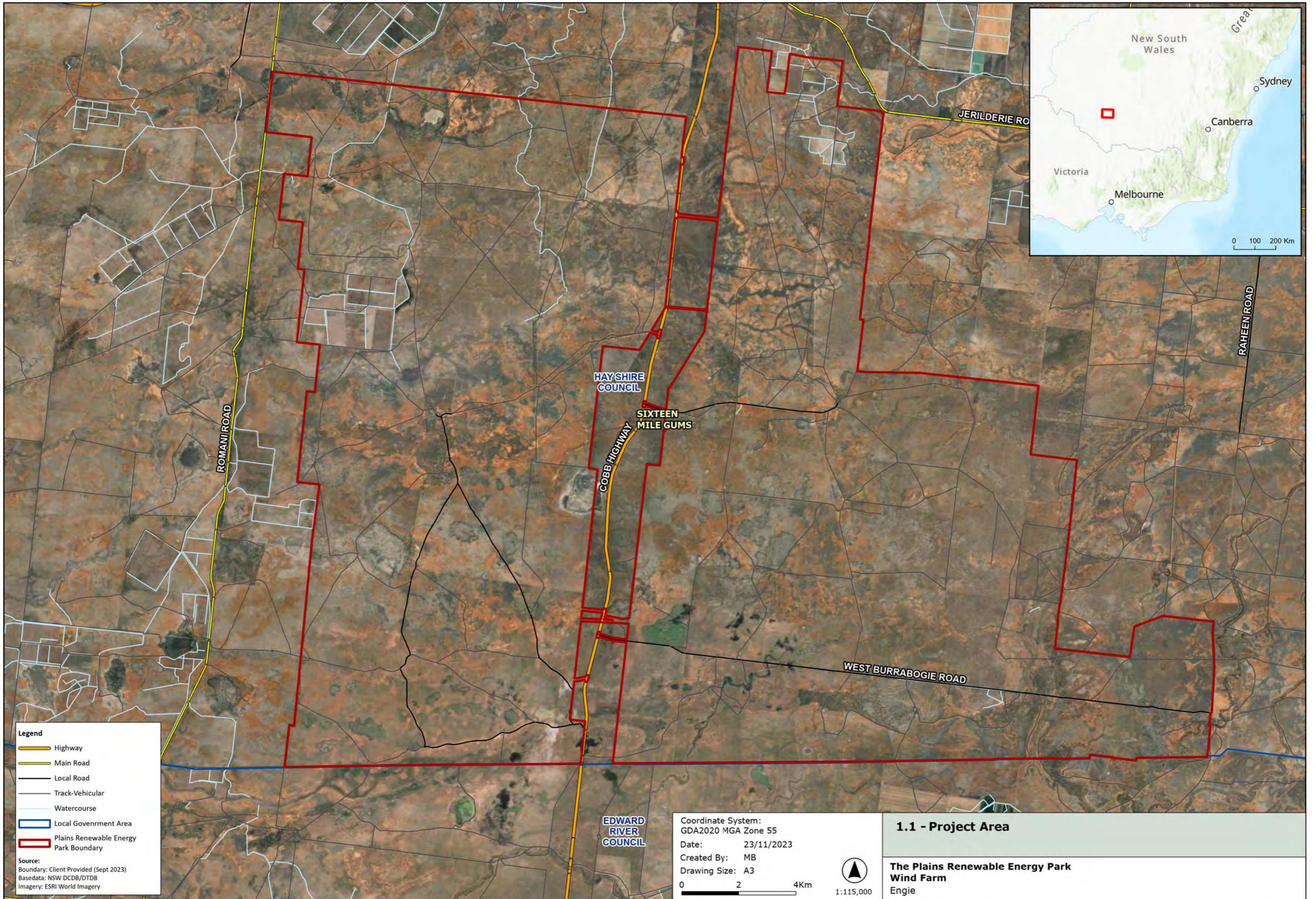
This ACHAR defined the Project area as the Wind Farm boundary, illustrated in Figure 1-1 The Wind Farm development footprint, illustrated in Figure 1-2, is defined as the area within the Project area that will have project infrastructure or may be subject to disturbance during construction.

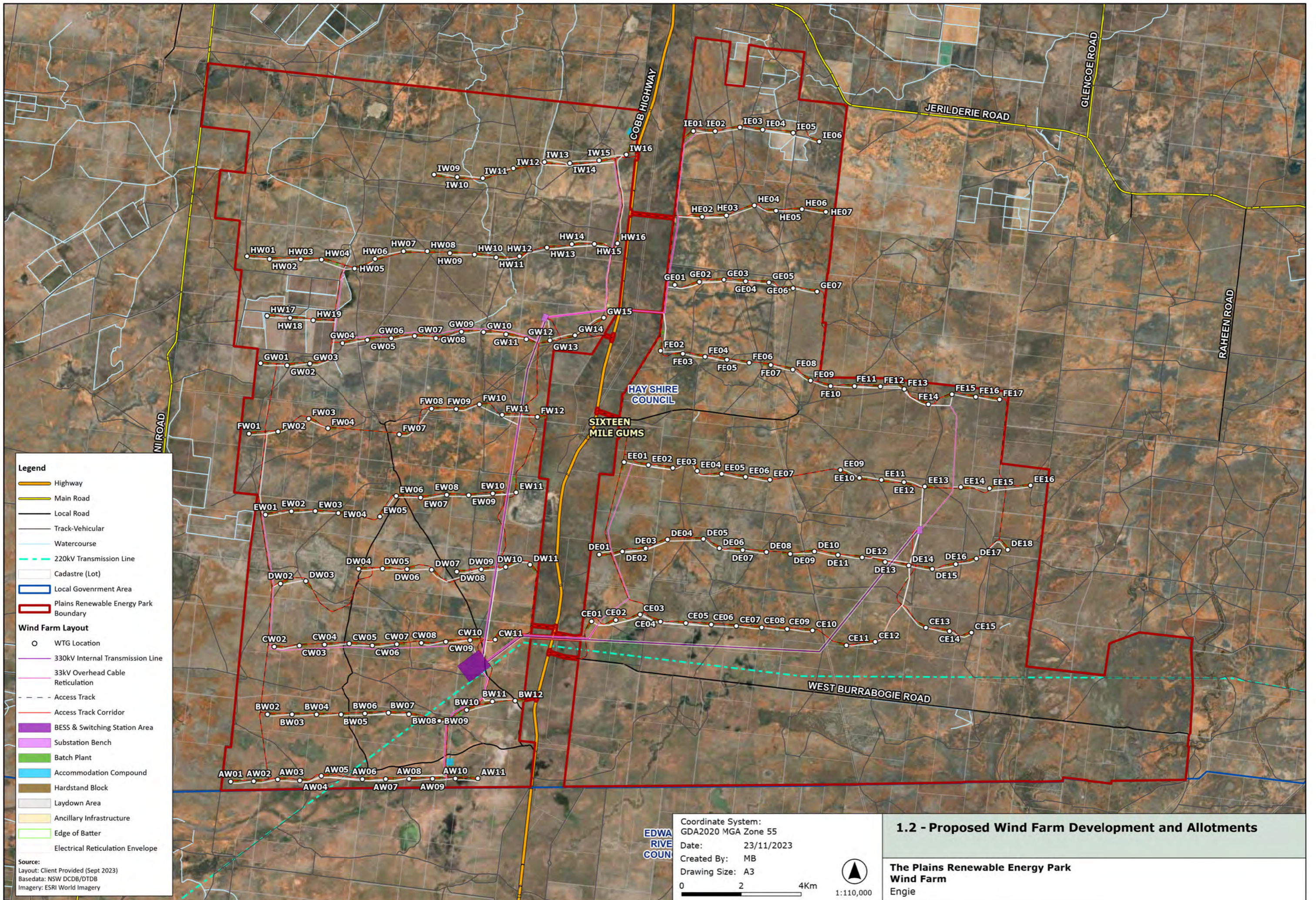
The Project comprises up to 188 wind turbine generators (WTGs) providing a maximum installed capacity of up to approximately 1,350 megawatt (MW) based on a 7.2 MW turbine. (Figure 1-2). The wind turbines will have a maximum hub height of 180 m and tip height of up to 270 m.

The Project will also include the following infrastructure and associated works:

- One (1) Operations and Maintenance (O&M) Building;
- One (1) primary 330 kilovolt (kV) substation including a control room and switchyard to facilitate connection to the National Electricity Market (NEM) and includes transformers, voltage controls, storage units and potentially power quality controls;

- At least two (2) 132 kV collector substations including a control room within each, located at selected locations within the wind farm, and with collector groups that will be connected with predominately 33kV underground cabling;
- Up to ten (10) permanent Meteorological Masts;
- High-voltage overhead lines connecting collector groups, main substation and connection to the NEM infrastructure;
- A construction compound and temporary construction infrastructure including concrete batching facilities;
- Electrical connections between wind turbines and site substations, with a grid (a tee-connection within the Project Boundary is assumed) that will primarily be underground though may include overhead lines;
- Internal access tracks and upgrades to existing access roads where required;
- Upgrades to existing minor roads along the haulage route to the Project area;
- Wind turbine hardstands;
- Installing maintenance and environmental managements processes and equipment;
- On-site quarries, security fencing and landscaping;
- Ancillary activities including gravel pits, water sourcing, visual screening (as required); and
- Temporary workers accommodation.





Legend

- Highway
- Main Road
- Local Road
- Track-Vehicular
- Watercourse
- - - 220kV Transmission Line
- Cadastre (Lot)
- Local Government Area
- Plains Renewable Energy Park Boundary

Wind Farm Layout

- WTG Location
- 330kV Internal Transmission Line
- 33kV Overhead Cable Reticulation
- - - Access Track
- Access Track Corridor
- BESS & Switching Station Area
- Substation Bench
- Batch Plant
- Accommodation Compound
- Hardstand Block
- Laydown Area
- Ancillary Infrastructure
- Edge of Batter
- Electrical Reticulation Envelope

Source:
 Layout: Client Provided (Sept 2023)
 Basedata: NSW DCDB/DTDB
 Imagery: ESRI World Imagery

EDWA RIVE COUN

Coordinate System:
 GDA2020 MGA Zone 55

Date: 23/11/2023

Created By: MB

Drawing Size: A3

0 2 4Km

1:110,000

1.2 - Proposed Wind Farm Development and Allotments

The Plains Renewable Energy Park Wind Farm

Engie

1.3 LOCATION AND DESCRIPTION OF THE PROJECT AREA

The Project is located near the town of Hay, in the Riverina Murray Region of NSW. It is about 820 km (by road) west of Sydney, and 15 km south of Hay, within the Hay Shire Local Government Area (LGA). The Project area covers a total of 53,894 ha (with the wind farm development footprint encompassing 1,996.9 ha) and is situated on Mungadal Station and neighbouring properties to the east and west of the Cobb Highway. Mungadal Station covers about 116,994 hectares (ha) and comprises native saltbush plains, numerous bores, areas of irrigated cropping, and an extensive pipe and trough system. The property fronts onto the Murrumbidgee River in the north (however, outside the Project area) and operates as a large-scale sheep breeding property specialising in the production of Merino Sheep and wool. The elevation across the Project area ranges from 80 m to 95 m above mean sea level (AMSL).

Three hundred and twenty lots and deposited plans (DPs) are associated with the Project area as outlined in Table 1-1 and illustrated in Figure 1-2.

TABLE 1-1 PROJECT AREA LOT AND DP DETAILS

Lot	DP
1, 2	126222
1, 2	126223
1, 2	529796
2	703764
38	722043
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 38, 115, 116, 117, 118, 119	756262
2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 49, 50, 119	756737
1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 18, 19, 20, 21, 22, 23, 24, 25, 30	756745
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 44	756770
1, 2, 3, 4, 5, 7, 11, 12, 17, 18, 19, 24, 25, 26, 27, 28, 29, 35, 36, 37, 38, 40, 41, 42	756771
36, 42, 43, 44, 45, 46, 50, 72, 73, 74, 76, 77, 78, 94, 95	756774
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43	756778
3, 4, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 36, 37	756779
3, 4, 5, 7, 9, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 41, 42, 48, 51, 55, 56, 57, 58, 59, 60, 61, 62, 63, 65, 66, 67, 68, 69	756785
1, 23, 24, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47	756797
86, 87	756809
21, 22	831180
1	954661

Lot	DP
1	1015117
7002	1056492
1, 2, 3, 4	1091853
1	1101148
1	1123124
7300, 7301, 7303, 7304	1149704
1	1218600

1.4 METHODOLOGY

This ACHAR examines Aboriginal and historic heritage values within the Project area. Due to the limited nature of historic heritage values, ERM has determined that a separate report addressing historic heritage values was unnecessary (see Section 1.5 below).

This report has been prepared in accordance with the following guidelines:

- Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW 2010a) (Consultation Requirements);
- Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW (DECCW 2010b) (Code of Practice);
- Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011) (ACHAR Guide); and
- The Australia International Council on Monuments and Sites, Charter for Places of Cultural Significance (also known as the Burra Charter, Australia ICOMOS 2013).

Preparation of this report includes:

- Desktop research and archaeological site database searches;
- Review of previous assessment for the Project area, and within the local area;
- Consultation with the local Aboriginal community;
- Field survey of the Project area;
- Assessment of heritage significance;
- Impact assessment; and
- Preparation of management and mitigation recommendations.

1.5 SECRETARY'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS (SEARS)

The SEARs (SSD-51219280) for the Project were issued on 23 December 2022. The requirements for Aboriginal heritage assessment and where they have been addressed is summarised in Table 1-2.

TABLE 1-2 SUMMARY OF SEARS REQUIREMENTS FOR ABORIGINAL CULTURAL HERITAGE AND WHERE ADDRESSED IN THE CURRENT REPORT.

SEARs Requirement	Where addressed
An assessment of the impact to Aboriginal cultural heritage items (archaeological and cultural) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (OEH, 2011) and the Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010), including results of archaeological test excavations (if required)	Whole report
Provide evidence of consultation with Aboriginal communities in determining and assessing impacts, developing options and selecting options and mitigation measures (including the final proposed measures), having regard to the Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW, 2010); and	Chapter 4
An assessment of the impacts to historic heritage having regard to the NSW Heritage Manual.	Chapter 7 and Chapter 13.2

1.6 AUTHORSHIP

A summary of the ERM staff involved in the preparation of this report and their relevant qualifications is provided in Table 1-3 below.

TABLE 1-3 SUMMARY OF AUTHORS AND REVIEWERS QUALIFICATIONS

Name	Title	Role	Relevant Qualifications and years of experience in cultural heritage management
Lorien Perchard	Heritage Consultant	Fieldwork, Data manager, Author	<ul style="list-style-type: none"> Bachelor of Arts (Archaeology; Ancient History), University of Queensland, 2010 Bachelor of Archaeology Honours, University of Queensland Ten years' professional experience
Victoria Gleeson	Heritage Consultant	Fieldwork, Data manager, Author	<ul style="list-style-type: none"> Bachelor of Archaeology (Anthropology), Macquarie University, 2017 Five years' professional experience
Erin Finnegan	Technical Consulting Director - Heritage	Technical Review	<ul style="list-style-type: none"> Bachelor of Arts (Cultural Anthropology), Macalester, 1998 Post Graduate Diploma – Museum and Heritage Studies, University of Cape Town 2003 Master of Philosophy (Archaeology), University of Cape Town, 2006 19 years' experience

Name	Title	Role	Relevant Qualifications and years of experience in cultural heritage management
Mark Davey	Partner	QA Review	<ul style="list-style-type: none"> • Bachelor of Applied Science (Biology), Central Queensland University, Australia, 1998 • Graduate Certificate (Marine Science), University of Queensland, Australia, 2001 • Doctor of Philosophy (Marine Ecology), University of Queensland, Australia, 2006 • 30 years of professional experience

1.7 LIMITATIONS

The initial survey approach was to undertake 100% survey of a 100 m buffer of the wind farm development footprint, which overlapped with areas of high archaeological potential, and 50% of those landscapes which overlapped low to moderate archaeological potential. Landforms associated with palaeochannel environments as delineated by gently raised red sandy landforms were identified as areas of high potential and were the focus of survey. The determination of the archaeological potential of the Project area is discussed in Sections 9.3 and 9.4.

The total survey area resulted in 80% of the survey corridor which overlapped with areas of high archaeological potential, 60% of those landscapes with moderate archaeological potential. Based on the number and type of sites recorded in each of these landscapes, ERM believes this survey coverage to be sufficient to provide a clear understanding of the cultural landscape, and to determine appropriate management recommendations for the Project area.

1.8 ACKNOWLEDGEMENTS

ERM gratefully acknowledges the support and input of all the RAPs and their representatives who participated in the fieldwork, consultation workshops, as well as review of the draft ACHAR.

ERM also acknowledges the involvement and input of Damian Wall of Red-gum Environmental Consulting who provided detailed knowledge of the local area and developed the predictive model.

2. LEGISLATION AND GUIDELINES

The following section provides an overview of the relevant legislation and guidelines under which this assessment has been prepared.

2.1 COMMONWEALTH LEGISLATION

2.1.1 ENVIRONMENTAL PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act; as amended 2004) provides the framework for the Commonwealth Government's environmental legislation. The EPBC Act outlines a legal framework for the protection and management of nationally and internationally important flora, fauna, ecological communities and heritage places. Several heritage listings were established under the EPBC Act including the Commonwealth Heritage List (CHL), National Heritage List (NHL), and Register of National Estate (RNE) (now repealed). There are no sites listed on the CHL, NHL or RNE within the Project area.

2.1.2 ABORIGINAL AND TORRES STRAIT ISLANDER HERITAGE PROTECTION ACT 1984

The *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (ATSIHP Act) assists in the protection of places, areas and objects that 'are of particular significance to Aboriginals in accordance with Aboriginal tradition'.

The ATSIHP Act is designed to deal with Aboriginal cultural property (intangible heritage), which are not currently protected under the NSW *National Parks and Wildlife Act 1974* (NPW Act).

The Commonwealth Minister can make declarations to protect these areas and objects from specific threats of injury of desecration. The responsible Minister may make a declaration under Section 10 of the ATSIHP Act in situations where state or territory laws do not provide adequate protection of intangible heritage.

While no formal database of Section 10 applications or declarations is publicly available this information is registered in gazettal notices within the Federal Register of Legislation. A search of this register did not identify any Section 10 applications or declarations relevant to the Project area.

2.2 NSW LEGISLATION

2.2.1 NSW ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

The *Environmental Planning and Assessment Act 1979* (EP&A Act) regulates a system for environmental planning and assessment for New South Wales. Land use planning requires that environmental impacts, including those on cultural heritage, must be considered when making decisions about the future of a place.

Local Environmental Plans

The EP&A Act allows for the preparation of planning instruments to direct development within NSW. This includes LEPs, which are administered by local government, and principally determine land use and the process for development applications. LEPs usually include a schedule of identified heritage items.

The Project area is within the Hay Shire LGA, which is governed by the Hay LEP 2010. A search of the Hay LEP did not identify any locally listed heritage sites within the Project area.

2.2.2 NSW NATIONAL PARKS AND WILDLIFE ACT 1974

Part 6 of the NPW Act provides specific protection for Aboriginal objects and places by making it an offence to destroy, deface, damage, or move them from the land. All Aboriginal objects within NSW are protected under Part 6, and particularly Section 90, of the NPW Act. Under Section 5 of the Act, "Aboriginal Object" means any deposit, object or material evidence (not being a handicraft made for sale) relating to the Indigenous habitation of the area that comprises NSW, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction and includes Aboriginal remains.

Under Section 86 of the NPW Act, a person who, without first obtaining the consent of the Director-General, knowingly harms or desecrates an Aboriginal object or Aboriginal place is guilty of an offence. In most circumstances, it is required that an Aboriginal Heritage Impact Permit (AHIP) be obtained for any impact to an Aboriginal object or place. Heritage NSW is the responsible authority, with the Director General of that department the consent authority. However, as the Project is assessed as a SSD, an AHIP is not required under Part 4.7 clause 4.41 (1)(d) of the EP&A Act. Instead, Aboriginal cultural heritage will be managed by an Aboriginal Cultural Heritage Management Plan (ACHMP) that will be developed following project approval. The ACHMP will contain the recommendations of this ACHAR, as well as an unexpected finds protocol, results of archaeological excavations, procedures to manage unexpected discoveries of human remains, and any other policies.

Sites of traditional significance that do not necessarily contain archaeological materials may be gazetted as 'Aboriginal places' and are protected under Section 84 of the Act. This protection applies to all sites, regardless of their significance or land tenure.

Aboriginal object and places are recorded on the Aboriginal Heritage Information Management System (AHIMS) database. The results of a search of the AHIMS database for registered Aboriginal objects and places is detailed in Section 6.2.

2.2.3 HERITAGE ACT 1977 (NSW)

The *Heritage Act 1977* (Heritage Act) protects the cultural and natural history of NSW with emphasis on historic (non-Aboriginal) heritage items, including places, buildings, works, relics, moveable objects, precincts, historic shipwrecks and archaeological sites of State or local significance. Protection is provided through protection provisions and the establishment of a Heritage Council and State Heritage Register (SHR).

Section 136 of the Heritage Act allows for the Minister or Chair of the Heritage Council to place a 'Stop Work' Order on a building, work, relic or place, that is not subject to an Interim Heritage Order (IHO) or listed on the SHR and that is being or about to be harmed. Work can be stopped for 40 days, whilst the imposition of an IHO is considered.

Section 139 of the Heritage Act also prohibits the disturbance of archaeological relics without a gazetted exemption, or an excavation permit issued by the Heritage Council of NSW.

State Heritage Register

The SHR was established under Section 22 of the Heritage Act and is a list of places and objects of particular importance to the people of NSW, including archaeological sites. The SHR is maintained by Heritage NSW and includes a diverse range of over 1500 items, in both private and public ownership. To be listed, an item must be deemed to be of heritage significance for the whole of NSW. Listing on the SHR controls activities such as alteration, damage, demolition and development. When a place is listed on the SHR, the approval of the Heritage Council of NSW is required or any major work.

There are no SHR items within, or in proximity to, the Project area.

Section 170 Heritage and Conservation Register (S170 Register)

Under Section 170 of the Heritage Act, NSW government agencies are required to maintain a register of the heritage assets it owns or controls. Under S170A of the Heritage Act, government agencies are required to notify the Heritage Council about decisions affecting assets on the s170 register including removing the item from the register, transferring ownership of a listed item, or vacating and/or demolishing part or all of the item.

Government agencies are also required to maintain properties on the S170 and SHR with due diligence in accordance with State Owned Heritage Management Principles approved by the Minister on the advice of the Heritage Council.

There are no s170 items within, or in proximity to, the Project area.

2.2.4 NATIVE TITLE ACT 1994

The *Native Title Act 1994* was introduced to work in conjunction with the *Commonwealth Native Title Act 1993*. The Native Title Act recognises and protects the traditional and continuing rights and interests of Aboriginal and Torres Strait Island people. This may include the right to protect places and areas that area important under traditional law where Native Title has been determined.

The Project area is not located within the boundaries of a native title claim or determination.

2.2.5 ABORIGINAL LAND RIGHT ACT 1983

The *Aboriginal Land Rights Act 1983* established Aboriginal Land Councils (at a State and Local Level). In relation to Aboriginal culture and heritage these bodies have a statutory obligation under Section 52 of the *Aboriginal Land Rights Act 1983* to:

- a) take action to protect the culture and heritage of Aboriginal persons in the council's area, subject to any other law, and
- b) promote awareness in the community of the culture and heritage of Aboriginal persons in the council's area.

The Project area is within the boundary of the Hay Local Aboriginal Land Council (LALC).

2.3 NON-STATUTORY CONSIDERATIONS

2.3.1 LEADING PRACTICE PRINCIPLES: FIRST NATIONS AND RENEWABLE ENERGY PROJECTS (CLEAN ENERGY COUNCIL 2024)

The Clean Energy Council's *Leading Practice Principles: First Nations and Renewable Energy Projects* is the first comprehensive national Guide on First Nations engagement, participation and benefit sharing for renewable energy projects. The Guide was co-designed with First Nations peoples and is an important link between community and industry. The Guide established ten principles that are practical and culturally appropriate:

1. Engage respectfully;
2. Prioritise clear, accessible and accurate information;
3. Ensure cultural heritage is preserved and protected;
4. Protect Country and environment;
5. Be a good neighbour;
6. Ensure economic benefits are shared;
7. Provide social benefits for community;
8. Embed land stewardship;
9. Ensure cultural competency; and
10. Implement, monitor and report back.

The purpose of the Guide is to facilitate the adoption and implementation of these principles by industry, through the identification of minimum and leading practice standards, as well as practical information and guidance on how to appropriately and effectively engage with First Nations peoples and communities. This will support the industry to deliver better engagement and outcomes for First Nations peoples.

A copy of the guidelines can be accessed at:

<https://assets.cleanenergycouncil.org.au/documents/resources/reports/Leading-Practice-Principles-First-Nations-and-Renewable-Energy-Projects.pdf>

This ACHAR has been prepared in accordance with the relevant principles of this guidance and to the standard it describes.

3. ASSESSMENT METHODOLOGY

3.1 DESKTOP INVESTIGATION

Desktop investigation included completion of a comprehensive review of existing background information to gain a contextual understanding of the cultural landscape associated with the Project. Review of background information included assessment of environmental information (Section 5), former historic land use, available ethnographic information, as well as searching existing registered Aboriginal heritage sites, existing AHIPs and reports.

3.2 ABORIGINAL COMMUNITY CONSULTATION

Aboriginal community consultation was undertaken in accordance with the consultation requirements as is detailed in Section 4.

In accordance with the Consultation Requirements, consultation with Aboriginal people formed an essential part of the heritage assessment process to:

- Determine potential harm on Aboriginal cultural heritage from proposed activities; and
- Inform management and mitigation measures where it is determined that harm cannot be avoided.

3.3 ABORIGINAL HERITAGE SURVEY

Two rounds of Aboriginal heritage survey were undertaken to inform this ACHAR. The initial survey was undertaken from the 03 April to 14 April 2023 by ERM Heritage Consultants Lorien Perchard, Victoria Gleeson, and Mark Dowdell. Representatives of the Hay LALC also participated in the survey.

The intent of the initial survey was to undertake a full survey of the Project area. However, this survey coincided with lambing season at Mungadal Station and as a result, large paddocks within the Project area could not be accessed. As such, the survey team were unable to complete full pedestrian transects of these areas. The survey methodology was adjusted to target representative samples of each landform type within the Project area with the sampling methodology focusing on areas of high archaeological potential that coincided with areas of proposed ground disturbance. The archaeological potential of the Project area is detailed in Sections 9.3 and 9.4.

Digital aerial photographs and topographic maps (ArcGIS) were carried by the survey team and used to track log areas covered throughout the survey. A photographic record was kept of all survey units. Photographs were taken to document the existing environment and landform context of each survey unit.

During the survey a total of 92 Aboriginal heritage features were identified. No locations with potential Aboriginal Ancestral Remains (AAR) were identified. Results of the initial Aboriginal heritage survey was used to refine the predictive modelling completed for the Project (Section 6.4.3).

A second field survey was undertaken from 8 August to 16 August 2023 by ERM Heritage Consultants Victoria Gleeson and Maggie Cronin. Representatives of the Hay LALC participated in the survey from 8 August to 12 August 2023. Representatives of Deniliquin LALC, Pappin Family Aboriginal Corporation, Yarkuwa Indigenous Knowledge Centre, and Bangerang Aboriginal Corporation, as well as individual, Neville Whyman, participated in this survey.

3.4 RECORDING AND ASSESSMENT METHODOLOGY

3.4.1 PREVIOUSLY RECORDED ABORIGINAL SITES

Where accessible, previously recorded Aboriginal sites within, or in proximity to, the development footprint were visited during the survey to assess their current condition and confirm the spatial extent of the registered site.

3.4.2 NEWLY IDENTIFIED SITES

Newly identified sites were recorded in accordance with the requirements in Sections 6-8 of the Code of Practice and the *Guide to completing the AHIMS Site Recording Form (OEH 2012)*.

Details recorded for each newly identified site included:

- The spatial extent of the site as delineated by either:
 - The spatial extent of the visible objects;
 - Obvious physical boundaries where present; or
 - Identification by the Aboriginal community based on cultural information.
- A photographic record with scale at an appropriate distance to record both the site feature and its context;
- Geospatial information of the site recorded using ArcGIS mapping; and
- Enough detail to enable to registration of the site on AHIMS.

3.4.3 ASSESSMENT OF ARCHAEOLOGICAL POTENTIAL

Areas which were identified as areas which had the potential to contain subsurface deposits of Aboriginal objects or the potential for Aboriginal objects to otherwise be obscured by surface conditions were recorded as areas of Potential Archaeological Deposit (PAD).

The assessment of areas of PAD was based primarily on an assessment of:

- Whether Aboriginal objects were likely to have been deposited within a location as a result of Aboriginal occupation or through post-depositional processes; and
- Whether historic land use or disturbances was likely to result in impact or removal of any Aboriginal objects that may have been present within the assessment area.

3.4.4 CULTURAL HERITAGE VALUES ASSESSMENT

Aboriginal heritage sites, objects and places hold value for communities in many ways. The nature of those heritage values is an important consideration when deciding how to manage a heritage site, object or place and balance competing land use options.

Assessment of the Aboriginal cultural heritage significance of the Project area has been completed in accordance with the requirements of the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in New South Wales (ACHAR Guide) (OEH 2011).

Assessment has included identification of social, historic, scientific and aesthetic values which area discussed below:

- Social or cultural value (assessed only by Traditional Owners/First Nations People) refers to the spiritual, traditional, historical or contemporary associations and attachments the place or area has for Aboriginal people. Social or cultural value is how people express their connection with a place and the meaning that place has for them;
- Historic value (assessed by Traditional Owners/First Nations People and/or non-Aboriginal historical specialists) refers to the associations of a place with a historically important person, event, phase or activity in an Aboriginal community. Historic places do not always have physical evidence of their historic importance (such as structures, planted vegetation or landscape modifications). They may have 'shared' historic values with other (non-Aboriginal) communities and include places of post-contact Aboriginal history;
- Scientific (archaeological) value (assessed by professional archaeologists) refers to the importance of a landscape, area, place or object because of its rarity, representativeness and the extent to which it may contribute to further understanding and information; and
- Aesthetic value (assessed by Traditional Owners and/or non-Aboriginal specialists) refers to the sensory, scenic, architectural, and creative aspects of the place. It is often closely linked with social values. It may consider form, scale, colour, texture and material of the fabric or landscape, and the smell and sounds associated with the place and its use.

Cultural heritage values for the Project area were identified through a combination of desktop assessment and consultation undertaken during the preparation of the Heritage Report. This information was collected by the ERM heritage team.

3.5 IMPACT ASSESSMENT

Following the identification of Aboriginal cultural values, an impact assessment would be completed to identify whether any Aboriginal Objects, Places or cultural values have the potential to be harmed through development of the preferred scenario.

The impact assessment for the proposal is guided by the definition of harm under the NPW Act, which is limited to impact which *'...destroys, defaces, damages an object or place or in relation to an object – moves the object from land on which is has been situated'* (Section 5).

'Direct harm' may occur as a result of activities which disturb the ground surface or identified cultural values including site preparation activities, and the installation of services and infrastructure.

'Indirect harm' for Aboriginal heritage refers to impacts that may affect sites or features located immediately beyond or within the area of the proposed work. Indirect harm may include impacts from vibration, increased visitation, increased erosion, or changing access to wild resources. The impact assessment evaluates the potential archaeological impacts for the proposal. It assessed the type of harm, the degree of harm, and the consequence of harm for any known Aboriginal sites or areas of potential.

The direct and indirect impact associated with the Project is assessed in Section 12.

4. ABORIGINAL COMMUNITY CONSULTATION

This chapter contains details of the Aboriginal community consultation undertaken regarding the Aboriginal cultural heritage of the Project area in accordance with the Consultation Requirements. Consultation with Aboriginal people formed an essential part of the heritage assessment process to:

- Determine potential harm on Aboriginal cultural heritage from proposed activities; and
- Inform decision making for the ACHMP where it is determined that harm cannot be avoided to identified Aboriginal heritage sites.

The consultation requirements set out four stages of the consultation process. Fulfilment of these requirements for this project is outlined below. All correspondence is recorded in the Aboriginal Heritage Consultation Log, included as Appendix A.

4.1 STAGE 1: NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

The aim of Stage 1 of the consultation process is to *identify, notify and register Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or places in the area of the proposed project.*

On behalf of the Applicant, ERM actively sought to fulfil this aim and identify stakeholder groups or people wishing to be consulted about the Project and invite them to register their interest. It was determined that there was no approved determination of Native Title over the Project area (per 4.1.1 of the guidelines).

To identify people with a potential interest in the project (as per 4.1.2 of the Consultation Requirements), a public advert stating the location and nature of the Project and seeking registration of interested Aboriginal parties was run in the Riverine Grazier on 25 January 2023 and Deniliquin Pastoral Times on the 24 January 2023 (Appendix E).

In addition, a letter containing these details (dated 12 January 2022, Appendix B) was sent to the following agencies:

- Hay LALC;
- Deniliquin LALC;
- Riverina Local Land Services;
- National Native Title Tribunal;
- Native Title Services Corporation (NTS Corp);
- Heritage NSW;
- Office of the Registrar, Aboriginal Land Rights Act 1983;
- Hay Shire Council; and
- Edward River Council.

Responses received from these agencies indicated a total of 32 Aboriginal individuals or organisations may have an interest in the Project (Appendix C). An invitation to register letter was sent to each of these identified parties on 24 January 2023 and a period of 14 days was provided for the parties to respond. A copy of this letter is provided as Appendix D.

Ongoing communication with the Hay LALC occurred throughout 2022. ERM initially intended to undertake a preliminary site survey with the Hay LALC in mid to late 2022; however, due to severe weather (including flooding) this survey did not occur. Subsequently, ERM contacted the Deniliquin LALC on 24 January and 6 March 2023 to identify their interests in being involved with the Project.

On 8 March 2023, a Section 4.1.6 notification letter was sent to the Hay LALC, Deniliquin LALC and Heritage NSW to notify them of the interested registered parties for the project (Appendix G).

A full list of the RAPs can be found in Table 4-1, and copies of relevant registrations can be found at Appendix F.

TABLE 4-1 REGISTERED ABORIGINAL PARTIES

Individual/Organisation
Individual – [removed from public display]
Wakool Indigenous Corporation
Pappin Family Aboriginal Corporation
Hay LALC
Deniliquin LALC
Individual – [removed from public display]
Individual – [removed from public display]
Bangerang Aboriginal Corporation
Yarkuwa Indigenous Knowledge Centre

4.2 STAGE 2: PRESENTATION OF INFORMATION ABOUT THE PROPOSED PROJECT

The aim of Stage 2 of the consultation process was to *provide registered Aboriginal parties with information about the scope of the proposed project and the proposed cultural heritage assessment process.*

The proposed survey and assessment methodology was sent to each of the RAPs (dated 6 March 2023) (Appendix H). The letter included:

- An outline of the proposed works;
- The proposed assessment and survey methodology including methodology if AAR were identified; and
- A request for RAPs to identify any areas of cultural significance or interest within the Project area.

Interest in participating in the survey program was received from several RAPs. No specific comment on the methodology or cultural values were received during the review period of the methodology.

4.3 STAGE 3: GATHERING INFORMATION ABOUT CULTURAL SIGNIFICANCE

Stage 3 of the consultation process involved discussion on cultural values and intangible elements of significance. Feedback on the cultural heritage significance of the Project area was requested as part of the survey and assessment methodology. A cultural heritage and LALC training workshop occurred in Hay on the 20 March 2023. This workshop was facilitated by IPS Management Consultants, and attended by representatives from Hay LALC, Engie and ERM. The workshop involved two sessions in the first half of the day that were centred on meaningful engagement and benefit sharing; they allowed Hay LALC to present their expectations for the project as well as heritage values and knowledge prior to the heritage survey and reporting. A walk on Country led by Hay LALC was undertaken in the second half of the day, and involved the sharing of cultural information around the types of sites that may be encountered during the heritage survey of the Project area.

Cultural values were also further discussed with all RAP groups during the completion of the heritage surveys.

As part of the consultation process, discussions were had with Hay LALC during the 2023 survey, where they requested a buffer of 200 m should be provided to recorded PADs, a buffer of 100 m should be provided to recorded hearths, and a buffer of 50 m provided to CMTs. Hay LALC requested this to protect all sites, in particular PADs, as the full extents of these sites are unknown.

It is also noted that Hay LALC and Nari Nari Tribal Council have requested that no test excavations should occur prior to the authorisation of the Minister's Conditions of Approval of the project, to avoid unnecessary damage to sites. This request was supported by ERM, in accordance with *Leading Practice Principles: First Nations and Renewable Energy Projects*, namely Principles 1 and 3 which focus on respectful engagement and the preservation and protection of cultural heritage. The process of test excavation and the capacity for project redesign is further discussed in *Section 13*.

4.4 STAGE 4: REVIEW OF DRAFT HERITAGE REPORT

The draft Heritage Report was provided to RAPs on 19 October 2023, via email. Each of the RAPs was provided 28 days to provide comments on the report and any recommended management and mitigation measures, prior to finalisation.

5. ENVIRONMENTAL BACKGROUND

The nature and distribution of Aboriginal cultural values and materials in a landscape are strongly influenced by environmental factors such as topography, geology, landforms, climate, geomorphology, hydrology and the associated soils and vegetation (Hughes and Sullivan 1984). These factors influence the availability of plants, animals, water, raw materials; the location of suitable camping places, ceremonial grounds, burials; and suitable surfaces for the application of rock art. As site locations may differ between landforms due to differing environmental constraints that result in the physical manifestation of different spatial distributions and forms of archaeological evidence, these environmental factors are used in constructing predictive models for Aboriginal site locations.

Environmental factors also affect the degree to which cultural materials have survived in the face of both natural and human influences and affect the likelihood of sites being detected during ground surface survey. Site detection is dependent on several environmental factors including surface visibility (which is determined by the nature and extent of ground cover including grass and leaf litter etc.) and the survival of the original land surface and associated cultural materials. It is also dependent on the exposure of the original landscape and associated cultural materials (by water, sheet and gully erosion, ploughing, vehicle tracks etc.) (Hughes and Sullivan 1984). Combined, these processes and activities are used in determining the likelihood of both surface and subsurface cultural materials being deposited, surviving, and being detected during archaeological surveys.

5.1 BIOREGION

Interim Biogeographic Regionalisation for Australia (IBRA) represents a landscape-based approach to classifying the land surface of Australia. Eighty-nine biogeographic regions and 419 sub regions have been delineated, each reflecting a unifying set of major environmental influences which shape the occurrence of flora and fauna and their interaction with the physical environment across Australia and its external territories (excluding Antarctica).

The Project area is located within the Riverina Plain of the Murrumbidgee Province, Riverina Bioregion (IBRA 5.1 [Chapter 8; NSW NPW 2003]). The Riverina Bioregion lies in southwest NSW, extending into central-north Victoria.

The Riverina Bioregion extends from Ivanhoe in the Murray Darling Depression Bioregion south to Bendigo, and from Narrandera in the east to Balranald in the west. Within its boundaries lie the towns of Hay, Coleambally, Deniliquin, Leeton, Mossgiel, Hillston, Booligal and Wentworth, while Griffith, Ivanhoe, Narrandera and Albury lie just outside its boundary in neighbouring bioregions. The bioregion also includes outlying remnants of the Murray Darling Depression Bioregion in its western boundary, and the Victorian Midlands Bioregion in the south. The Murray and Murrumbidgee Rivers and their major tributaries, the Lachlan and Goulburn Rivers, flow from the highlands in the east, westward across the Riverina Plain (NSW NPW 1999 and 2003).

The Murrumbidgee Province is generally comprised of a naturally flat landscape largely consisting of clays, silts and sands which historically have been subject to a consistent cycle of annual flooding. The Murrumbidgee Province is characterised by extensive coarse deposits, low lying source bordering dunes and occasional sand dunes created by ancient rivers (Pardoe 2001: 14).

The Riverina Bioregion has a semi-arid climate, with low winter rainfall and relatively hot summers. The temporally averaged median rainfall from 1890–2005, is 272 mm per annum.

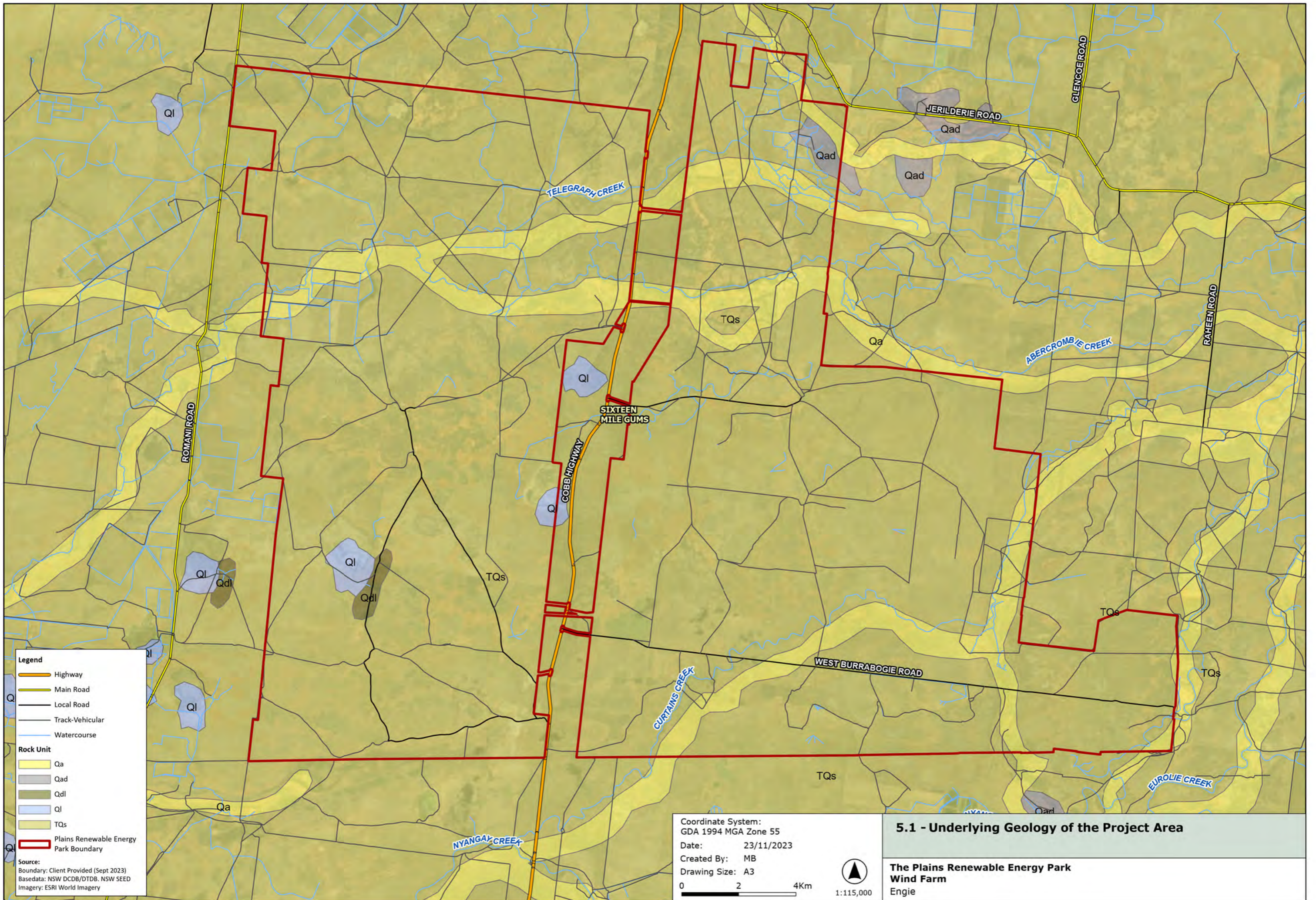
5.2 GEOLOGY AND GEOMORPHOLOGY

This Riverina Bioregion is dominated by river channels, floodplains, swamps, lakes and lunettes that are all of Quaternary age (NSW NPW 2003). The evolutionary story of these channels and plains is one of decreasing discharge through time. Different phases of stream discharge have been linked to prior and ancestral stream patterns each with different form and different bed load characteristics. Between 15- 30,000 years ago (kya), prior streams carried sand far onto the clay plains in wide channels with long meanders. Ancestral streams are more like the modern channels, with tighter meanders and carrying only clay. Alluvial sediments become deeper and older in the western half of the basin, reaching a maximum thickness of about 500 m. Basement rocks are the early Palaeozoic sediments and granites of the Lachlan Fold belt, but almost no outcrops exist in the Riverina (NSW NPW 2003).

The Riverina Plain consists of flat-lying fluvio-lacustrine and aeolian sediments, and much of the surface consists of Pliocene to recent Shepparton Formation (Aap), and the younger incised ancestral rivers of the Coonambidgal Formation (Aam). Pisolitic ferruginous soils (ironstone) identified within the older parts of the Shepparton Formation are equivalent to the Karoonda Surface (Kotsonis and Joyce 2003).

Geologically the Project area is part of this extensive alluvial plain, known as the Hay Plain, which developed following a period of land subsidence in the tertiary period. Following the period of subsidence, sediments began to be deposited across the alluvial plain through a series of prior stream systems (palaeochannels) which are present within the Project area. The alluvial deposit (Shepparton Formation - Aap) varies in depth between 50-125 m and covers a series of significantly older alluvial and marine sediments. The Shepparton Formation has a variable presentation which includes areas of surface ironstone, unconsolidated to poorly consolidated mottled clays, silty clays, coarse to fine sand and gravels as well as intercalated red-brown palaeosols. Carbon dating of the Shepparton Formation indicates that the upper and most recent deposits of the formation date to between 20-30 kilo annum (thousand years; ka) (Australian Stratigraphic Units Database 2019).

Following the deposition associated with the Shepparton Formation, a period of stream incision occurred. These incised areas were filled with coarser sediments which form the late quaternary Coonambidgal Formation.



5.3 LANDFORM

The Project area is located within the Riverina and Hay Plain which is one of the world's flattest places. Landforms in the region are identifiable on a micro level only with landform development associated directly with former and current distributary channels and the effect of flooding.

Key landforms across the Riverina and Hay Plains include the Murrumbidgee River Floodplain, palaeochannels, alluvial plains, and lakes. These landform types are described in Table 5-1 below.

TABLE 5-1 SUMMARY OF KEY LANDFORMS WITHIN THE RIVERINA AND HAY PLAIN

Landform	Description
Murrumbidgee River floodplain	The modern Murrumbidgee River is characterised by its narrow and incised nature. Water within the river is notable for its suspended load of clay and silt. The modern stream channel is located within a belt of alluvium which extends between 1-5 km wide. The alluvium is located slightly below the height of the surrounding plain. In proximity to the study area there is a general lack of source bordering dunes surrounding the Murrumbidgee River with sand in this region limited to palaeochannels.
Palaeochannels	Palaeochannels are former streams which carried water during the last glacial period. In the present they are delineated by wide channels of sand which are often slightly raised above the average level of the plain. Palaeochannels are associated with source bordering dunes and shallow channels which carry modern floodwaters. Several palaeochannels in the Murrumbidgee have been dated with their development extending as far back as 105 ka. Palaeochannels within and surrounding the Project area include the Gum Creek System and the Yanco System which have been associated with the Yanco system which had enhanced fluvial activities between 41 -18 ka (Mueller et al 2018).
Alluvial Plains	The majority of the Murrumbidgee province is comprised of broad alluvial plains which developed as palaeo floodplains.
Lakes	Lakes develop in areas where surface water accumulates on existing flood plains. Surface water accumulations are pushed by wind scour the underlying surface resulting in deeper water basin. Lakes are associated with lunette landforms which form as a result of wind action across the lake surface.

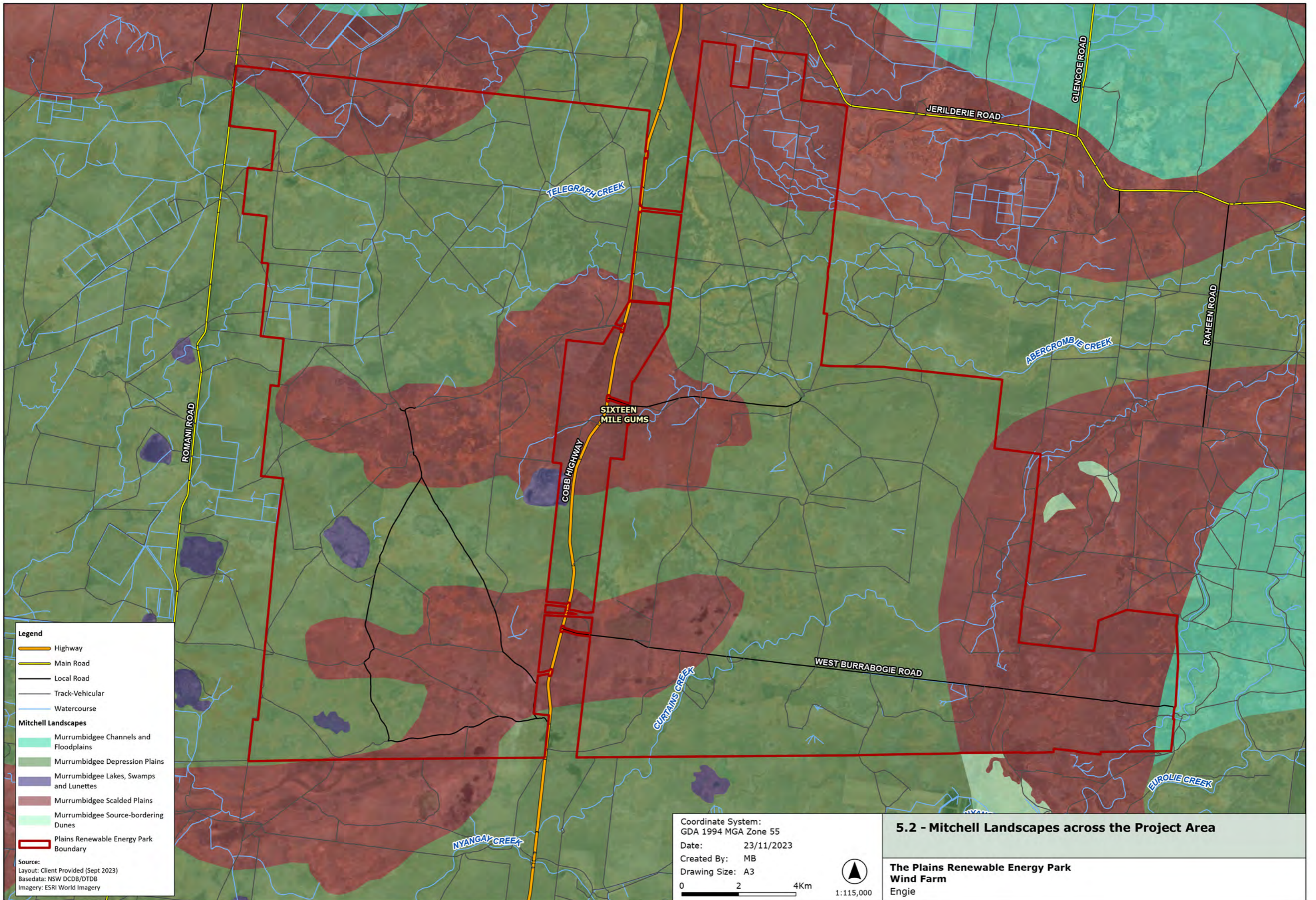
Palaeochannel landforms are identified as demonstrating archaeological sensitivity based on several factors including:

- Their raised nature is more suitable for occupation particularly during flood events;
- Modern ephemeral lakes and water sources are often located in associated with palaeochannel landforms; and
- The coarser nature of the soil deposits supports a wider variety of land uses and the conservation of a wider range of archaeological deposits including sites including AAR, hearths, and PADs.

State level landscape mapping completed by Peter Mitchell in 2002 ('Mitchell Landscapes') delineated the Project area into five broad landscapes. The 'Mitchell Landscapes' were based on geological, geomorphic, and pedologic criteria to describe spatially distinct ecosystems. A summary of the Mitchell Landscapes within the Project area is summarised in Table 5-2 and shown in Figure 5-2.

TABLE 5-2 MITCHELL LANDSCAPES WITHIN THE PROJECT AREA

Landscape	Description
The Murrumbidgee Depression Plains (Mud)	The Murrumbidgee Depression Plains present as numerous circular depressions interpreted as high floodplains or low terraces beyond the reach of average floodwaters. Elsewhere sandy rises and levees trace ancestral streams standing above the general plain, with relief ranging 1 to 10 m (Mitchell 2002:104).
The Murrumbidgee Channels and Floodplains (Mbc)	The Murrumbidgee Channels and Floodplains are quaternary alluvium on seasonally inundated floodplains, active and inactive channels, billabongs, levees and swamps of the Murrumbidgee River and its effluent streams with relief up to 10m. Includes scalded alluvial flats, broad elevated floodplains and associated relict channels; isolated sandy rises, with relief up to 5m. Grey and brown clay with occasional areas of low sandy rise (Mitchell 2002:104).
The Murrumbidgee Lakes Swamps and Lunettes (Mbl)	The Murrumbidgee Lakes Swamps and Lunettes largely consists active freshwater lakes and swamps which are frequently flooded by the river. The lakes and billabongs are sometimes near permanent, generally round or kidney shaped. They are often nested within larger relic Quaternary lake features. They are sometimes adjacent areas of saline plains. Beaches, sand and clay pellet lunettes and sand hills exist on the eastern margins. Relief of lakes and channels is to 8 m, with lunettes to 15 m (Mitchel 2002:105).
The Murrumbidgee Scalded Plains (Mbd)	The Murrumbidgee Scalded Plains are quaternary alluvial plains with extensive scalding interpreted as relic floodplains or terraces with little relief, often generally <1 m and up to 5 m on associated pans, swamps and lunettes (Mitchell 2002:105).
Murrumbidgee Source- bordering dunes (Mrd)	Murrumbidgee Source- bordering dunes consists of sandy rises adjacent to river channels and along prior streambeds, deep red and brown sands and loams, relief 3 to 12 m. Often heavily grazed and subject to wind erosion (Mitchell 2002:105).



Legend

- Highway
- Main Road
- Local Road
- Track-Vehicular
- Watercourse

Mitchell Landscapes

- Murrumbidgee Channels and Floodplains
- Murrumbidgee Depression Plains
- Murrumbidgee Lakes, Swamps and Lunettes
- Murrumbidgee Scalded Plains
- Murrumbidgee Source-bordering Dunes
- Plains Renewable Energy Park Boundary

Source:
 Layout: Client Provided (Sept 2023)
 Basedata: NSW DCDB/DTDB
 Imagery: ESRI World Imagery

Coordinate System:
 GDA 1994 MGA Zone 55
 Date: 23/11/2023
 Created By: MB
 Drawing Size: A3

0 2 4Km
 1:115,000

5.2 - Mitchell Landscapes across the Project Area

The Plains Renewable Energy Park
 Wind Farm
 Engie

5.4 SOILS

State level soil mapping of the region (DECCW, 2002, pp. 104-105) shows that the Project area is largely made up of grey, brown, and red clays; siliceous sands; and red and brown earths. Soils are closely related to the current and previous hydrological regimes, with areas of lower relief typically comprised of grey cracking clays associated with flood environments. The majority of the wind farm is comprised of level plains of Quaternary alluvium of sands and clays.

Broad soil mapping for the region completed at a scale of 1:500 000 is available from the Department of Natural Resources which identifies four broad soil landscapes across the Project area.

These soils with their associated landscape are described in Table 5-3 below.

TABLE 5-3 SOIL LANDSCAPES

Soils	Landform	Soils
Plain Zone C (PZC)	Level plains of Cainozoic/ Quaternary alluvium of the Riverine Plains	Soils related to the prior stream network. In general levee landscapes and localised high points are comprised of red and brown earths. Further into the plain landscape soils are comprised of red brown earths and brown podzolic soils. Soils developed from parent material of clays, silts and sands from past flow regimes. Moderate to severe scalding occurs on Red Sodic soils, which usually occur near the levees of prior streams. Topsoils are fragile and overgrazing often damages the surface crust
Prior Stream Variant B (PSB)	Landform is comprised of prior stream sand ridges. In general, the sand ridges exhibit narrow and sinuous characteristics. Landscape is characterised by shrublands and low rainfall.	Siliceous Sands on higher sandy ridges– 60%, Red Earths on some less distinct rises–20%, Red Brown Earths with sandy topsoils on levees–20%. Soils are dominated by non-cohesive sands, so wind and sheet erosion are potential problems especially on crest and upper slopes.
Western Edge Complex (WX) *Encompasses majority of Wind Farm*	Level to gently undulating plains.	Higher undulating rises are dominated by red earths which grade into red/brown earths which are often scalded. Lower lying plains are often comprised of grey cracking clay deposits.
Sandy Prior Stream Ridge (PS)	Linear prior stream sand ridges blown out of coarse sand deposits of relict palaeochannels. Mostly cleared but previously dominated by pine forest and sand-hill shrub species.	Unit is dominated by siliceous sands which occasionally grade to red earths. Adjacent levees/ lower slopes commonly support scalded red earths.

The majority of the Project area is mapped within the WX soil profile with red/brown earths.

In general soil development is largely reported to be associated with former stream landforms with soils comprised of a finer substrate with increasing distance from the prior stream deposits (see Figure 5-3). This transition is significant archaeologically with clay-based soils in conjunction with flood deposits demonstrating limited potential to support the development of archaeological deposits. It is noted that the effect of flooding may either preserve or disturb archaeological deposits depending on the velocity of flood and the underlying soil types. Clay based soils are considered less likely to support artefact deposition and archaeological site development due to the general impermeable nature of clay soils. Red earth and sandy soils by comparison are considered more likely to support the development of in-situ archaeological deposits. It is however noted that both the PZC and PSB soil profile are reported to be fragile and subject to impact through grazing, wind and sheet erosion, which is a common occurrence within the region.

Vertisols which are found across the Project area is the predominant soil matrix and is characterised by shrink-swell and cracking clay soils. Water can accumulate seasonally in depressions, and they can form deep cracks from the surface downwards when they dry out.

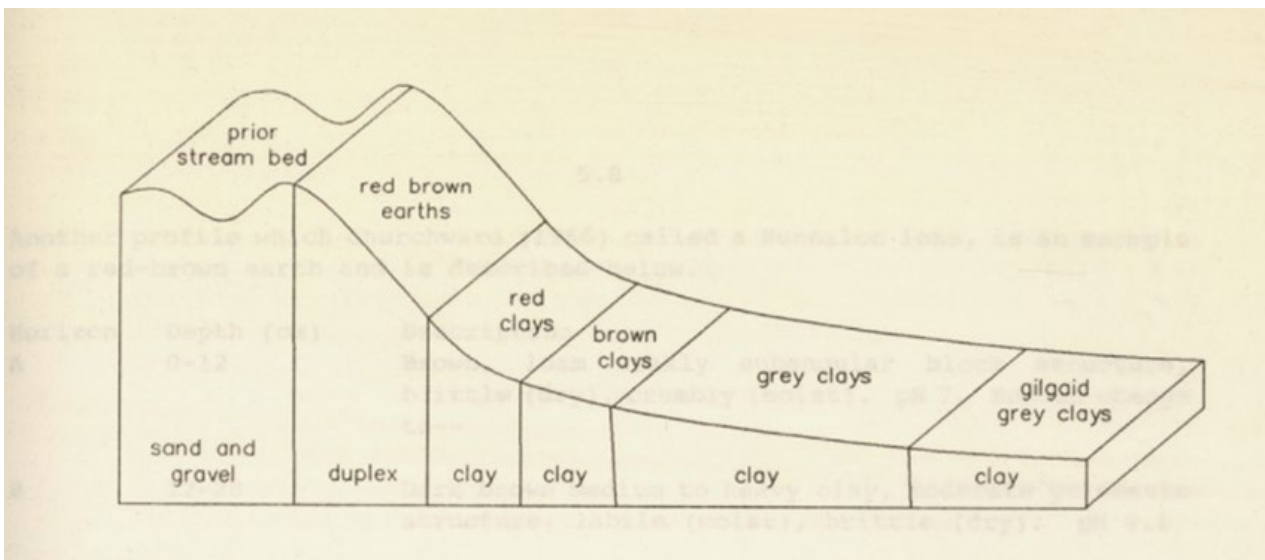
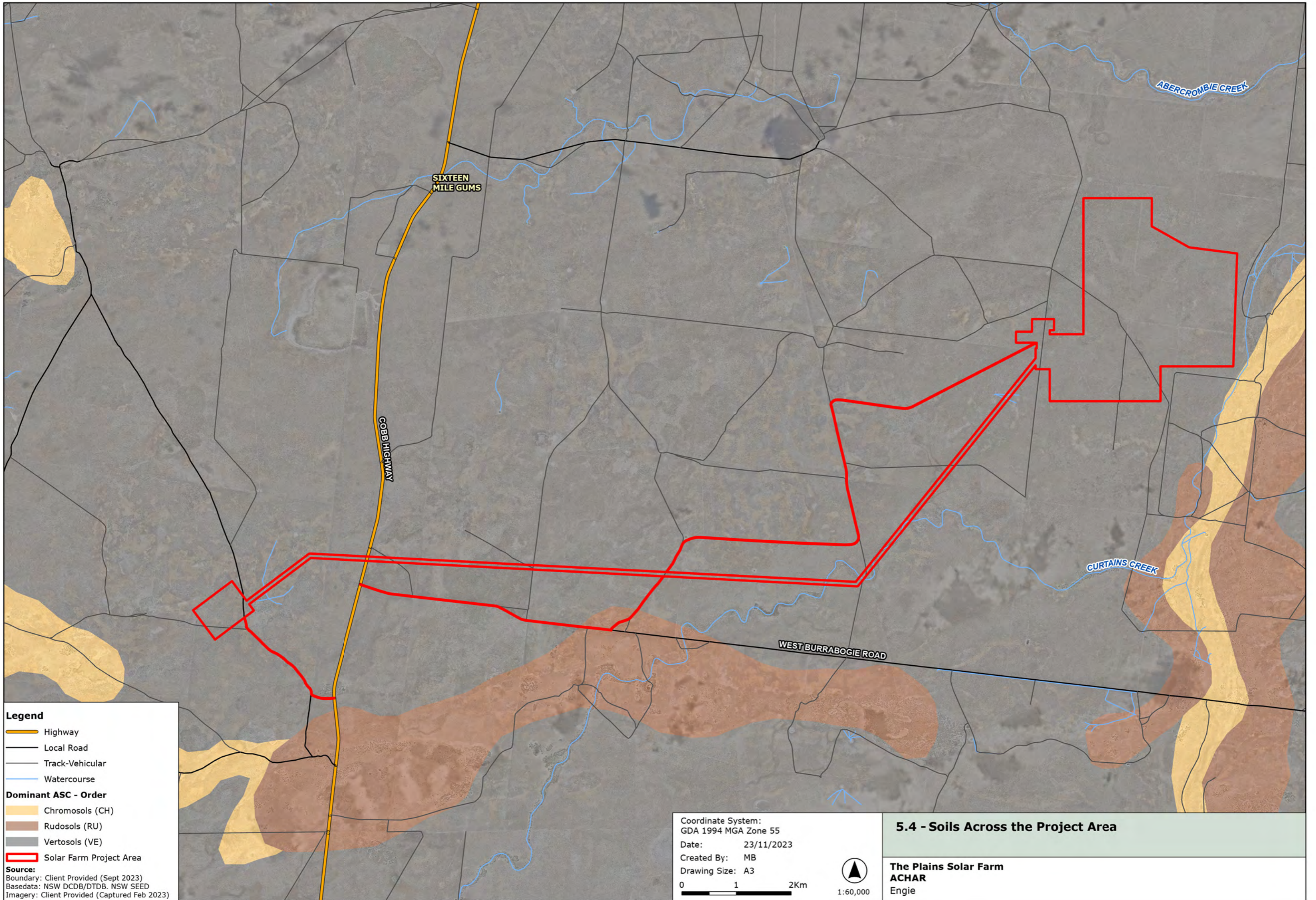


FIGURE 5-3 ILLUSTRATION OF SOIL DEVELOPMENT WITH INCREASING DISTANCE FROM PALAEOCHANNEL LANDFORMS (SOIL CONSERVATION SERVICES OF NSW 1990: 64)



Legend

- Highway
- Local Road
- Track-Vehicular
- Watercourse

Dominant ASC - Order

- Chromosols (CH)
- Rudosols (RU)
- Vertosols (VE)
- Solar Farm Project Area

Source:
 Boundary: Client Provided (Sept 2023)
 Basedata: NSW DCDB/DTDB, NSW SEED
 Imagery: Client Provided (Captured Feb 2023)

Coordinate System:
 GDA 1994 MGA Zone 55
 Date: 23/11/2023
 Created By: MB
 Drawing Size: A3

0 1 2Km

1:60,000

5.4 - Soils Across the Project Area

The Plains Solar Farm
ACHAR
 Engie

5.5 HYDROLOGY

Today the Murray-Darling Basin comprises a network of rivers forming Australia’s largest River System. The Project area is located within part of the vast Murray-Darling Basin which extends across 14% of Australia’s land mass (MDBA 2022). The Murray-Darling Basin is split into two catchment areas (the Northern and Southern basin catchments).

The Southern Murray Darling Basin is generally associated with two large geomorphic forms - the Mallee Plains in the West and the Riverina Plain in the east (including the Project area). The Riverina Plain is encompassed in the Southern Murray Darling Basin and comprised of a complex network of river channels and floodplains which overlay ancient river systems (see Section 5.2). The streams in the Riverina are characterised by low gradients with significant variability in river flow (Williams 2011: 9).

The oldest of the ancient river systems in the Riverina Plain are currently comprised of deeply buried channels which have been filled by sand and gravels and date to 15-30 ka (NSW NPW 2003). These ‘prior streams’ are identified by their slightly raised nature above the existing floodplain (Williams 2011 :9) More recent ‘ancestral rivers’ are more closely associated with current drainage networks which are found as winding depressions across the landscape.

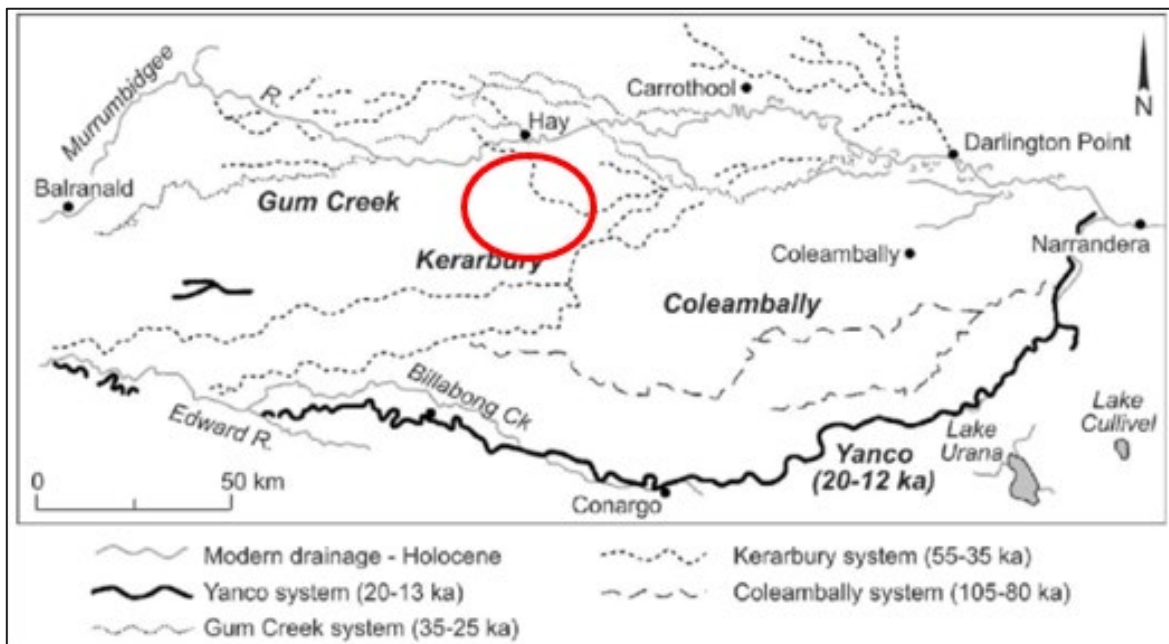


FIGURE 5-5 PHASES OF PALEOCHANNELS ACROSS THE RIVERINA, APPROXIMATE LOCATION OF PROJECT AREA SHOWN IN RED (PAGE ET AL 2009: 22)

Significant changes to the hydrological landscape occurred between the Pleistocene and Holocene periods which coincided with a period of increased aridity. This increased aridity restricted the flow of palaeochannels with the modern drainage regime for the Riverina Plain and is estimated to have developed between 15 to 10 ka.

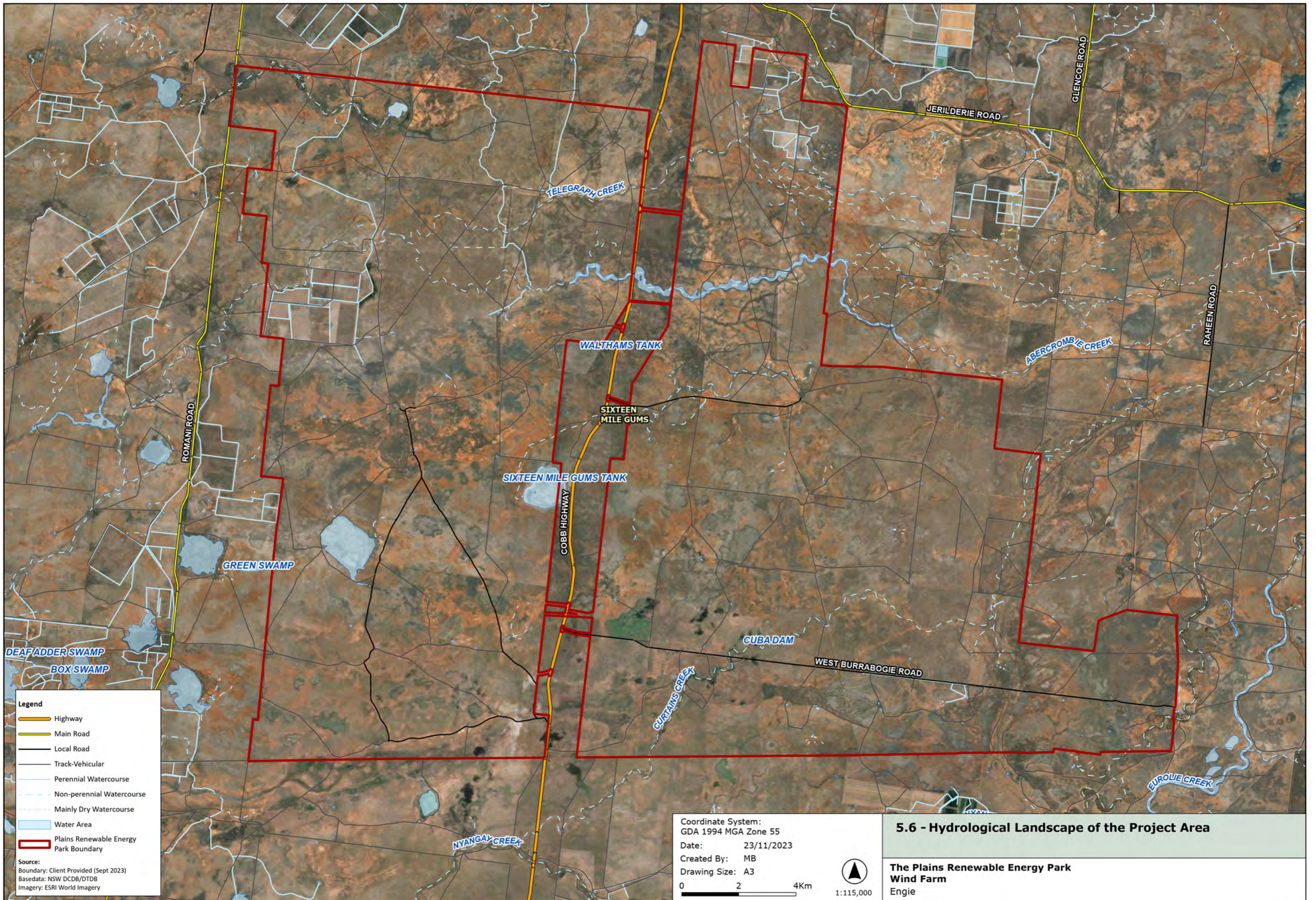
Past Aboriginal occupation is likely to have focused on resources associated with these palaeochannels. This indicates that archaeological evidence is likely to be based in the areas surrounding these palaeochannel resources. Impacts of flooding in 2022 and stream activity are noted to have impeded the potential to identify earlier phases of Aboriginal occupation through cycles of erosion, sedimentation and accretion as described by Klaver (1998: 71). It is noted that the high level of clay soils within the Project area limit drainage across the landscape resulting in large areas of standing water following rain events such as those that occurred in 2022.

Waterbodies within the Project area include Telegraph Creek and Abercrombie Creek and their tributaries which all form part of the Murrumbidgee River Catchment. At its closest, the Murrumbidgee River is located about 7 km north of the Project area. The Murrumbidgee River has a catchment of approximately 84,000 km². Rising in the Snowy Mountains, the river flows generally westwards to its confluence with the Murray River, 1600 km from the river source. The catchment includes 14 dams plus eight large weirs, with its downstream irrigation areas containing over 10 000 km of irrigation canals (Watts 2010: 199).

Water flow along the river has been regulated by major structures predominantly constructed from 1912 through to 1968. The river changes form along its path with the area downstream (west) of Hay, described as the Lower Murrumbidgee floodplain, exhibiting the most extensive wetland area of the catchment.

The natural flow regime of the Murrumbidgee River prior to regulation was characterised by low average flows in summer and autumn, and higher average flows in winter and spring (Page et al. 2005, in Watts 2010: 200). Flows would have naturally been variable, with rainfall events in the upper and mid catchment creating flow pulses that would have travelled down the river, potentially as far as the downstream reaches of the river. River regulation has substantially altered these characteristics as a result of upstream off-takes for irrigation purposes.

River regulation has significantly reduced the magnitude of relatively frequent flooding events in the Murrumbidgee floodplains, with impacts to vegetation and fauna diversity and development.



Legend

- Highway
- Main Road
- Local Road
- Track-Vehicular
- Perennial Watercourse
- Non-perennial Watercourse
- Mainly Dry Watercourse
- Water Area
- Plains Renewable Energy Park Boundary

Source:
 Boundary: Client Provided (Sept 2023)
 Basedata: NSW DCDB/DTDB
 Imagery: ESRI World Imagery

Coordinate System:
 GDA 1994 MGA Zone 55
 Date: 23/11/2023
 Created By: MB
 Drawing Size: A3

0 2 4Km
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5.6 - Hydrological Landscape of the Project Area

The Plains Renewable Energy Park
 Wind Farm
 Engie

5.6 FLORA AND FAUNA

The availability of flora and fauna resources are primary factors influencing patterns of past Aboriginal land use and occupation. Flora resources have been utilised by Aboriginal peoples as food, medicine, ceremony, as well as in the construction of tools, shelter and fire.

While the current landscape has been heavily influenced by clearing related to historic farming uses, the Project area does contain several flora species which demonstrate Aboriginal cultural values.

River red gum (*Eucalyptus camaldulensis*) and river cooba (*Acacia stenophylla*) communities can be found along the river channels in sandy soils. Herbaceous perennial, annual and post-flooding ephemeral species make up the understorey in these areas. River cooba was used by Aboriginal people for both food, the seeds ground for bread, as well as utilitarian uses - the bark was used a poison for fishing and the hard wood, Yumang, was used for boomarangs (Williams and Sides 2008:18). These flora communities, also including cooba (*Acacia salicina*), lignum (*Muehlenbeckia cunninghamii*), nitre goosefoot (*Chenopodium nitrariaceum*), are typical of the Murrumbidgee Channels and Floodplains (Mbc) Mitchell landscape (see Section 5.4) which predominates the central portions of the Project area. Wood and resin from cooba were used by Aboriginal people to make and repair tools, whilst the tree was also considered medicinal with known uses being a mouth wash and body cleansing (Williams and Sides 2008:10).

The riverine forest communities of the Riverina Bioregion (IBRA 5.1) provide habitat for significant fauna including the superb parrot (*Polytelis swainsonii*), sugar glider (*Petaurus breviceps*), feathertail glider (*Acrobates pygmaeus*), squirrel glider (*Petaurus norfolcensis*), brush-tailed phascogale (*Phascogale tapoatafa*), koala (*Phascolarctos cinereus*), carpet python (*Morelia spilota*), freckled duck (*Stictonetta naevosa*) and peregrine falcon (*Falco peregrinus*) (Eardley 1999 in NPWS 2003:93).

Black box (*Eucalyptus largiflorens*) dominated woodlands with an accompanying understorey consisting of salt-tolerant grasses, saltbushes and daisies can be found in the grey and black clays on higher land. On land above the flood level, yellow box (*Eucalyptus melliodora*) communities can be found with both cypress pine and grey box (*Eucalyptus microcarpa*) in evidence. The bark of Black box, or Pulty, was used by Aboriginal people in making coolamons and canoes, whilst hollowed branches were fashioned into didgeridoos. Other parts of the tree were used for toolmaking, including the suckers which were used for spear making. Leaves and flowers were commonly used as adornments, especially during ceremonies (Williams and Sides 2008:30).

Stands of Black box offer habitat to a diversity of bird species including the bush thickknee (*Burhinus magnirostris*) and the superb parrot, which rely on box woodland and selected nest trees, typically river red gum. The shrublands and grasslands provide habitat to species such as the plains-wanderer (*Pedionomus torquatus*), bush thickknee, striped legless-lizard (Delmar Impar) and fat-tailed dunnart (*Sminthopsis crassicaudata*).

Moving away from the rivers and streams the plain country is relatively treeless, supporting saltbush scrubland with old man saltbush (*Atriplex nummularia*), bladder saltbush (*Atriplex vesicaria*), ruby saltbush (*Enchylaena tomentosa*), nardoo (*Marsilea drummondii*) and cotton bush (*Maireana aphylla*) interspersed among the native grasslands (*Danthonia spp. and Stipa spp.*) (Williams and Sides 2008: 57) (Figure 5-7). Old man saltbush is used for medicinal purposes and in areas lacking wood supplies, old man saltbush can also be used as a source of wood for fires (per comms. with RAPs during ERM consultation 2023, Table 11-1). This species was present across most of the Project area. Several native animals were sighted during the survey of the Project area which included emu, kangaroo, quail, eagles, snakes and other small reptiles, and a range a small insects.

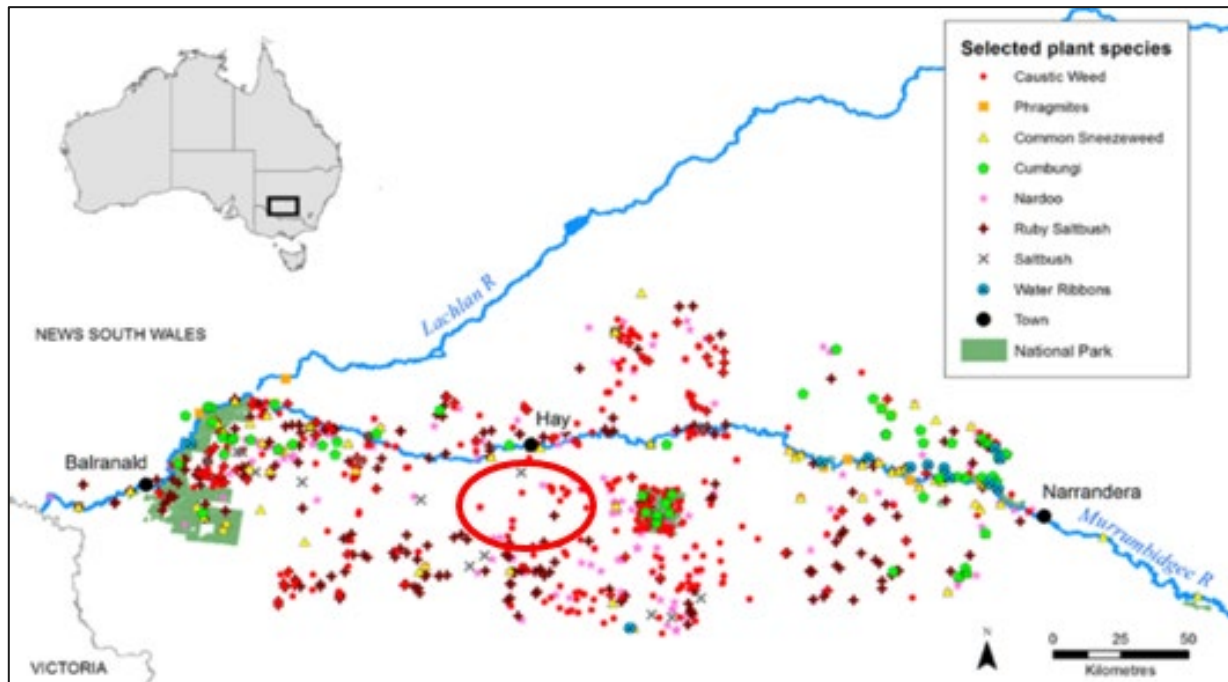


FIGURE 5-7 DISTRIBUTION OF SELECTED CULTURALLY IMPORTANT WETLAND SPECIES (DUFFY 2016 IN CHARLES STURT UNIVERSITY 2016). APPROXIMATE LOCATION OF THE PLAINS RENEWABLE ENERGY PARK CIRCLED IN RED.

6. ABORIGINAL ARCHAEOLOGICAL BACKGROUND

6.1 ETHNOGRAPHIC HISTORY

The Project area is located around 170 km south-east of Lake Mungo, one of the most famous archaeological sites in Australia that has been dated back as far as 45,000 years (Hiscock, 2000: 21-22). According to Pardoe & Martin (2001) in their Murrumbidgee Province Aboriginal Cultural Heritage Study, the Project area is within the boundaries of the Kulin language group of the Western Murrumbidgee, encompassing the Nari Nari, Mathi Mathi, Wathi Wathi, and Wemba Wemba language groups, the boundaries of which are difficult to define and often overlap. Anthropologist Norman Tindale’s 1940’s map which shows the distribution and diversity of Aboriginal tribes and language groups across Australia maps the Project area within the Nari Nari and Berapa Berapa group (Figure 6-1).

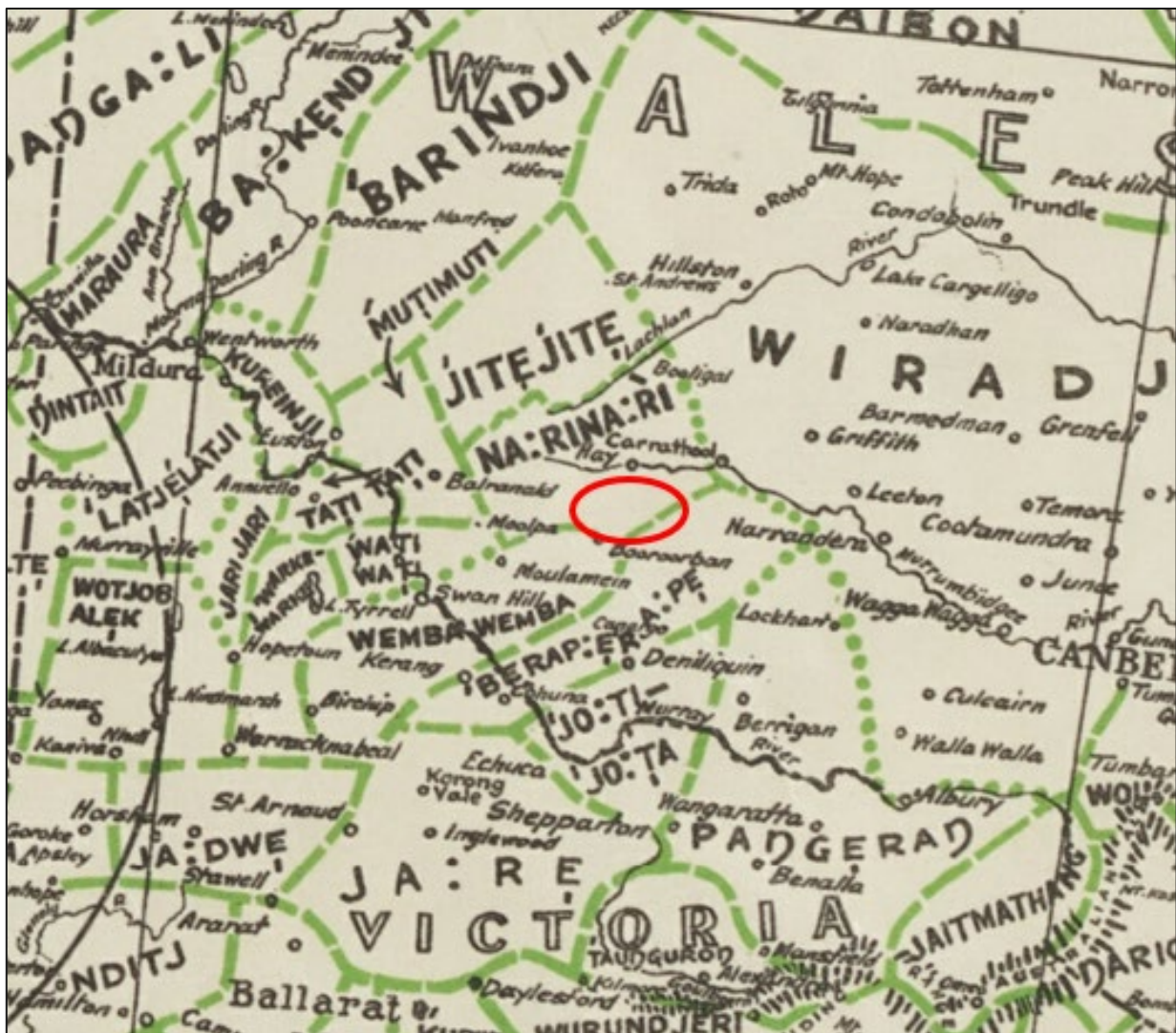


FIGURE 6-1 TINDALE 1940 MAP OF ABORIGINAL TRIBES AND LANGUAGE GROUPS. RED CIRCLE SHOWING APPROXIMATE LOCATION OF THE PROJECT AREA (SL.NSW.GOV.AU)

The first encounter that many of the Nari Nari and Berapa Berapa people would have had with Europeans was in the early 1800s when explorers first entered the Riverine Plain and surveyed land within the Murray, Murrumbidgee, Lachlan and Darling River catchments. The accounts of these early explorers provide valuable insight into the customs and culture of some of the Aboriginal groups of these areas. John Oxley surveyed the Riverina in 1817, accompanied by botanist Charles Cunningham. He followed the Lachlan River downstream below Booligal, but dense swamps prevented progress further west (Eardley, 1999).

Between 1828 and 1831, Charles Sturt explored the Murrumbidgee and lower Murray Rivers. Sturt noted that as he travelled downstream along the Murrumbidgee, the population increased. He stated that near the Murrumbidgee-Lachlan junction there was a large tribe of natives...one hundred and twenty in number (Sturt, 1833, in Pardoe & Martin, 2001).

Sir Thomas Livingstone Mitchell (1792-1855) explored the Lower Murrumbidgee region in 1836. Mitchell kept journals of his expeditions, detailing observations of Aboriginal people in the region prior to European settlement of the area. Mitchell noted that the staple food crop, bulrush root or balyan was often roasted in features now known as earth mounds or hearths (Mitchell, 1839: 134). In reference to these mounds, he stated;

One artificial feature, not observed by me in other places, distinguishes the localities principally frequented by the natives, and consists in the lofty mounds of burnt clay, or ashes used by them in cooking. The common process of natives in dressing their provisions, is to lay the food between layers of heated stones; but here, where there are no stones, the calcined clay seems to answer the same purpose, and becomes better or harder, the more it is used. Hence the accumulation of heaps resembling small hills (Mitchell, 1839: 80-81).

Beveridge in his 1884 ethnography described the communities of the Murray, Murrumbidgee, Lachlan and Darling areas as being family oriented. The mounds of the plains across the landscape represented territorial markers; the communities were patriarchal, led by elders (Beveridge, 1884; Pardoe, 1988; Martin, 2006). Daily life often consisted of hunting or gathering, cooking or preparing food, preparing tools such as canoes, and telling stories or playing games.

The rivers were central to the Aboriginal way of life, providing a rich concentration of food resources; Pardoe (1988) suggested that communities living along the rivers would have controlled access to the water and its resources, the rights to this occupation handed down from ancestors (Eardley, 1999). For some eight months of the year, resources in the region were available in abundance; however, for the remaining four months of the year, it was substantially more difficult to forage for food. For this reason, the Aboriginal communities participated in a semi-sedentary lifestyle, moving periodically based on the availability of local resources, setting up temporary villages along the way. During the summer when the river systems were abundant, Aboriginal communities would remain in the vicinity for weeks or months (Beveridge, 1884). Diet was largely determined by the seasonal availability of resources; the food that sustained them consisted primarily of fish, and of other animals including kangaroo, emu and possum. Fish traps and weirs were used extensively in the Murrumbidgee region, built across the mouths of swamps and reed beds; these systems were likely used to store fish for months after the floods had passed (Pardoe & Martin, 2001).

There is less detail about how Aboriginal people lived on the plains, more than 20 km from a main river channel. The plains were predominantly used in winter when there was usually more surface water resulting from winter rainfall and/or floodwaters pushed out from the rivers along the normally dry creeks. The Aboriginals within the plains to the west of the lower Murrumbidgee (encompassing the Project area) were said to retire to the Murrumbidgee and Lachlan Rivers as soon as the water on the plains dried up (Pardoe & Martin, 2001).

One of the prominent physical features of the Aboriginal campsites were the ovens and/or mounds that were left behind. These features often formed central components within the campsite, most likely to have been used to cook (ovens) and potentially grow food (mounds) (Beveridge, 1884; Pardoe & Martin, 2001).

Beveridge noted that some mounds discovered in the area contained several and even dozens of burials within; he noted:

Aboriginal skeletons are frequently found in the cooking mounds...the reason for the position of these skeletons, however, can easily be explained...as grave-digging is very arduous when hands are few and the implements merely yam sticks, the easiest method...is simply enough done by scraping a hole in the friable soil of the mound (Beveridge, 1884: 21-22).

Even before European settlement in the region, diseases had spread from their handful of colonial holdings along the coastline. By the time explorers had reached the region, disease had ravaged the population. Beveridge described being involved in exhuming twenty-eight skeletons from a mound; when consulting the elders, he discovered that they were the remains of small-pox victims (Beveridge, 1884: 22).

The groups within the Murray, Murrumbidgee, Lachlan and Darling region were commercially connected. Trade for certain items would have been vital, as some resources, such as that used for stone tool production, was difficult or impossible to source locally. It also would have been an important method to access food during times of drought or hardship. Beveridge described the importance of certain members of society, the Ngalla Wattow, in facilitating trade links between Aboriginal communities; these men were able to communicate in the languages of the surrounding communities and provided the means to transport goods between these communities. These men were the lifeblood of their respective communities, and no harm was inflicted upon them from rival communities (Beveridge, 1884).

6.2 ABORIGINAL HERITAGE INFORMATION MANAGEMENT SYSTEM

The AHIMS database provides information concerning previously recorded Aboriginal sites in NSW. Two extensive searches of the AHIMS database relevant the Project area were conducted on 10 August 2021 and 13 September 2022, the latter to cover Project area design changes. The searches were conducted using the parameters provided in Table 6-1. All AHIMS search results are provided in Appendix I.

TABLE 6-1 AHIMS SEARCH PARAMETERS (SEPTEMBER 2022)

Parameters	Search 1	Search 2
Client Service ID	612680	612684
Datum	GDA Zone 55	GDA Zone 55
Easting	279729.0 - 307594.0	284924.0 - 318182.0
Northing	6155144.0 - 6168579.0	6140851.0 - 6155132.0
Buffer	0 m	0 m
Number Sites	101	42

A total of 143 sites were identified within or in proximity to the Project area. A total of 41 valid sites were located within the Project area. Seven additional sites recorded within the eastern portion of the Project area have been destroyed or partly destroyed. An AHIP permit (C0004833, 4399) was issued for the Combined Paraway Water Efficiency Scheme on 21 May 2019 for these seven artefact sites (AHIMS #48-5-0406, AHIMS #48-5-0410, AHIMS #48-5-0405, AHIMS #48-5-0404, AHIMS #48-5-0408, AHIMS #48-5-0409, AHIMS #48-5-0353). This AHIP permit is detailed in Section 6.3. None of the valid sites were registered within the Wind Farm development footprint. The presence of a variety of site types across the Project area indicate a variety of complex land uses.

The results of the full AHIMS search are summarised in Table 6-2.

TABLE 6-2 AHIMS REGISTERED SITE TYPES (SEPTEMBER 2022)

Site Type	Total Number of Site types across Search parameters	Number of Valid Sites within the Project area
Artefact	98	15
Artefact, Burial, Hearth, Potential Archaeological Deposit (PAD)	1	0
Artefact, Hearth	19	8
Earth Mound	2	2
Hearth	12	7
Modified Tree (Carved or Scarred)	10	8
Modified Tree (Carved of Scarred), Artefact	1	1
Total	143	41

¹

¹ Number of sites registered following data download on 13 September 2022.

An additional two searches using shapefiles were completed on 6 October 2023 to encompass a change to the boundary of the Project area. The searches were conducted using the parameters provided in Table 6-3.

TABLE 6-3 AHIMS DATABASE SEARCH PARAMETERS (OCTOBER 2023)

Parameters	Search 1	Search 2
Client Service ID	826257	826259
Datum	GDA Zone 55	GDA Zone 55
Buffer	0 m	0m
Number Sites	81	60

A total of 134 valid sites are located within the Project area. It should be noted that 93 of these identified sites were recorded during the archaeological surveys for the Project.

The results of the full AHIMS searches are summarised in Table 6-4

TABLE 6-4 AHIMS REGISTERED SITE TYPES (OCTOBER 2023)

Site Type	Total Number of Site types across Search parameters
Artefact	76
Artefact, Hearth	15
Artefact, PAD	12
Hearth	10
Modified Tree (Carved or Scarred)	9
Artefact, Hearth, Potential Archaeological Deposit (PAD)	8
Potential Archaeological Deposit (PAD)	2
Earth Mound	2
Total	134

2

6.3 AHIP REGISTER

A review of the following public AHIP registers was undertaken during the preparation of this report:

- AHIP public register 2021-2023; and
- AHIP public register archive 2010-2021.

An AHIP permit (C0004833, 4399) was issued for the Combined Paraway Water Efficiency Scheme on 21 May 2019 for seven artefact sites within the eastern portion of the Project area. A summary of the AHIP covering the Project area is summarised in Table 6-5.

² Number of sites registered following data download on 6 October 2023.

TABLE 6-5 AHIP PERMIT DETAILS AND CONDITIONS

Details	Summary	Within Project area
C0004833 4399	AHIP holder: Department of Industry – Lands and Water. Permit details: Issued 21/05/2019. Duration 2 years. Location: Pevensey Station and Rosevale Station, Sturt Highway, South Hay Sites subject to AHIP: AHIMS #48-5-0406, AHIMS #48-5-0410, AHIMS #48-5-0405, AHIMS #48-5-0404, AHIMS #48-5-0408, AHIMS #48-5-0409, AHIMS #48-5-0353. Summary of approved impacts: Movement only of certain Aboriginal objects through proposed works Certain Aboriginal Objects must not be harmed.	Yes, within portion east of Cobb Highway

6.4 REGIONAL ARCHAEOLOGICAL BACKGROUND

6.4.1 EXISTING REGIONAL PREDICTIVE MODELS

A localised landscape based predictive model was developed by Colin Pardoe for the 'Murrumbidgee Province' as part of the Murrumbidgee Province Aboriginal Cultural Heritage Study (Pardoe and Martin, 2011). This predictive model has focused on the localised landform features and their relationship to site identification and includes assessment of the Project area. Pardoe's assessments considered the relationship between several landform features and the location of sites making the following conclusions:

- Water – The pattern of site distribution was identified as having its greatest concentration within proximity to watercourses. Some variation in site distribution based on water source type was also noted:
 - Major Streams – No site was located more than 12 km from a major river channel with most sites found with a short distance of this channel (75% of sites were within 3.3 km of a major stream). For the purposes of predictive modelling all land within 5 km of a major stream was considered moderately sensitive, all lands within 3km of a major river were considered highly sensitive;
 - Minor Streams – No site was located more than 12 km from a minor stream (75% were within 2.2 km). For the purposes of predictive modelling all land within 5 km of a minor stream was considered moderately sensitive, all lands within 2 km of a minor stream were considered highly sensitive;
 - Lakes – More than 82% of sites are found within 8 km of a lake. For the purposes of predictive modelling all land within 8 km of a lake was considered highly sensitive; and
 - Swamps – No obvious pattern of distribution was identified which was attributed to variations in the way swamps are described in official mapping data.

- Landforms – Plains made up 93% of the Murrumbidgee Province, and as such minor variations in landform were noted to be significant as an impetus to the flow of water and location of resources. While sites were identified across most landform patterns; channelled plain and confined trace landforms were identified as containing a disproportionate number of sites. These landforms were most often associated with the modern active floodplain. Comparatively, burials were most often associated with scalded, channelled and depressed plains associated with palaeo environments. Based on the Mitchell landform mapping, most of the Project area is located within scalded, channelled and depressed plain landscapes. The depressed plain landscape is located across most of the Project area. The channelled plain is located within the east portion of the Project area and this landform would be considered likely to include most sites within the Project area. The scalded plains appear in the central, north, east and southern portions of the Project area. Whilst lakes, swamps and lunettes appear three times in the western portion of the Project area (Figure 5-2); and
- Soils – Soil type was noted for its association with water resources and vegetation communities. Based on this association, varying soil types were identified to be associated more closely with site features (hearths, mounds etc) rather than overall site distribution.

The Hay Plain is generally located south of Hay and north of Deniliquin and sits within the Murrumbidgee Province. Additional large-scale reviews of archaeological site types were completed by Martin in her review of the Hay Plain (Martin 2007 and Martin 2010). Martin noted several patterns in site distribution related to environmental features. Martin noted that:

- The narrow floodplains or confined traces of the Murrumbidgee and Lachlan, the Lowbidgee distributary system, the Gum Creek palaeochannel, and the Abercrombie Creek system in the Hay Plain have the highest density of sites. Large open water lakes also have a high density of sites;
- Sites are widely spread over different geomorphic categories across the Hay Plain with certain site types most likely to be identified in specific soil types. Confined traces (including the Murrumbidgee River), plains with channels, plain with depressions and channelled plains contained a higher density of sites. Localised landforms included lunettes and lakes were also identified to have a higher-than-average site density;
- Mounds were identified to be located to parts of the Hay Plain and not directly related to geomorphology. Mounds were noted however to be particularly dense along confined traces, The Lowbidgee and Hay Plain Southeast;
- Middens were identified to be largely located along the confined traces of the major rivers and on large water lakes and lunettes;
- Open sites were more commonly found away from riverine grey cracking clays;
- Burials appeared to cluster in the western portion of the Hay Plain in similar locations to mounds. These sites were not identified to be connected to geomorphology;
- Artefact sites and ground ovens were recorded to have been spread widely across the Hay Plain; and
- All archaeological site types are considered likely to occur on slightly raised sandier palaeochannel features.

Martin noted that on a wider scale that the gently west sloped topography of the Hay Plain was identified to have an influence on the overall presence of sites. Martin suggested this may have been related to earlier water retention environments. Prior to modern water control systems, it was noted that the western half of the Hay Plain would have acted as a sump which collected seasonal floodwater and excess rainfall and would have provided appropriate resources for the growth of a number of plant and animal resources. Mound sites in the area surrounding Gum Creek and the Abercrombie Creek System was noted to be focused on palaeochannel features and around ephemeral lakes and swamps (Martin 2007: 199).

Most of the Project area is comprised of landform types which were identified by Pardoe and Martin as having the potential to contain Aboriginal sites.

6.4.2 LOCAL ARCHAEOLOGICAL CONTEXT

A summary of the local archaeological context has been developed utilising the results of publicly available archaeological reporting and registered AHIMS sites within and in the vicinity of the Project area. The result of this review helps to provide an indication of the range, nature and distribution of archaeological sites within the local area.

6.4.2.1 WITHIN THE PROJECT AREA

Project EnergyConnect (NSW Eastern Section), Buronga to Wagga Wagga NSW (Navin Officer Heritage Consultants, 2022)

Navin Officer Heritage Consultants prepared an ACHAR to support the EIS and Submissions Report for Project EnergyConnect, a new High Voltage interconnector between NSW and SA. Project EnergyConnect comprises several sections, the NSW Eastern Section was the subject of the ACHAR reviewed and would involve the installation of transmission lines between Buronga and Wagga Wagga. The Aboriginal heritage study area was generally a one kilometre wide corridor (500 m either side of the proposed alignment) between the Buronga substation and the Wagga Wagga substation, totalling approximately 540 kms and traversing nine LGAs being Wentworth Shire, Balranald Shire, Murray River, Edward River, Hay Shire, Murrumbidgee, Federation, Lockhart Shire and Wagga Wagga LGAs. The proposed 330 kilovolt (kV) transmission line traverses the southern portion of the Project area, as shown in Figure 6-2.

Survey commenced in 2021 and by 2022 survey was completed for approximately 97% of the proposed alignment. During the surveys, 105 new Aboriginal sites and 45 areas of PAD were identified. In 2022 test excavations were completed for the PADs that were proposed to be impacted. The most common new site types identified were isolated finds (n=45) and artefact scatters (n=23).

Of these recorded sites, two sites are within the boundary of the Project area (within proposed transmission lines); PEC-E-23 (AHIMS # 48-5-0440) and PEC-E-22 (AHIMS # 48-5-0439). Four additional sites were recorded within 200 m of the boundary of the proposed transmission lines; these sites are PEC-E-21 (AHIMS # 48-5-0438), PEC-E-24 (AHIMS # 48-5-0441), PEC-E-25 (AHIMS # 48-5-0442) and PEC-E-26 (AHIMS # 48-5-0443). The landform of the survey units (SUs) that are within the current Project area were described as Alluvial Plain and Plain.

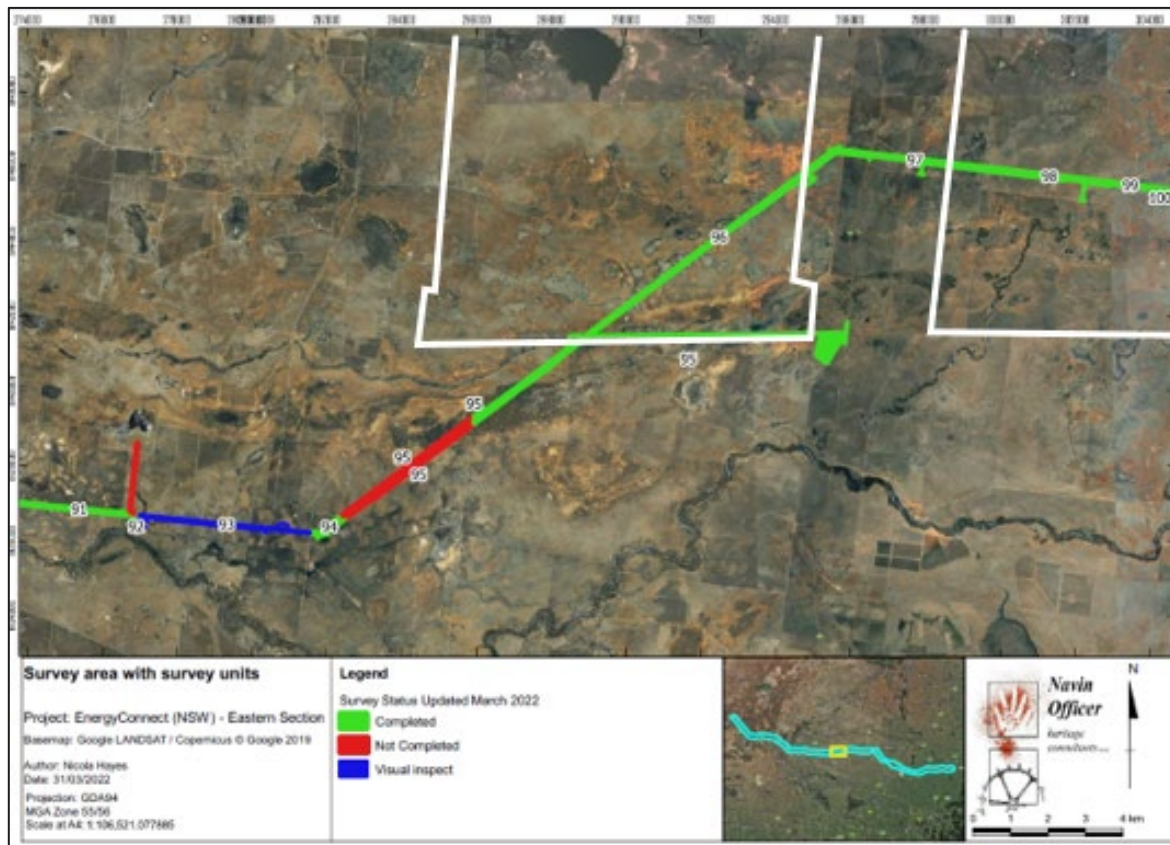


FIGURE 6-2 SURVEY AREA OF EASTERN SECTION OF ENERGYCONNECT TRAVERSING CURRENT PROJECT AREA (BOXED IN WHITE) (NAVIN OFFICER HERITAGE CONSULTANTS, 2022: 432, APPENDIX 5)

6.4.2.2 WITHIN THE VICINITY OF THE PROJECT AREA

Keri Keri Wind Farm (ERM 2023)

From 2022 to 2023, ERM prepared an ACHAR for the site of the proposed Keri Keri Wind Farm (KKWF), a component of the Keri Keri Renewable Energy Project. The Keri Keri Wind Farm is proposed to be located approximately 31 km east of Balranald, and about 60 km west of the Project area. The Keri Keri Renewable Energy Project encompasses approximately 19,403 ha of land, with 18,081 ha covered by the KKWF. The proposed KKWF will include up to 159 wind turbine generators and associated infrastructure. Field surveys undertaken for the Keri Keri ACHAR included a preliminary survey as well as two supplementary surveys, the final of which was done in conjunction with a forensic survey of the recorded AAR. The field surveys identified 209 new sites within the KKWF project area. Artefact sites were the most common to be recorded, totalling 142 sites.

A total of 61 burials (AARs) at 23 locations were recorded, in addition to seven burials recorded from an earlier survey and registered on AHIMS. Burials generally appeared to be part of residential places in red sandy dunes adjacent to clay pans, ephemeral lakes, and small ponds. They were usually located at the edges of these places but were sometimes observed in the centre when associated with ground disturbance from digging animals. These observations indicate that burials are likely to occur across the entirety of the residential place but are more visible at the eroding extremities.

The KKWF project area is comprised of a landscape which is predominantly flat with small rises generally adjacent to clay pans, ephemeral lakes, and small ponds. Some of these rises are natural dunes formed along palaeochannels or lake lunettes, and others are culturally created earth mounds, or a combination of both. These rises have been identified as suitable to retain archaeological deposits as they were the focus of Aboriginal occupation to have easy access to the nearby retained water during dry seasons, and to stay dry when much of the surrounding area was underwater during wet seasons. A total of 34 new locations of PAD were recorded within the KKWF project area, 24 of which were associated with visible archaeological material such as AAR, hearths, or artefacts. The remaining 10 PADs were recorded as such due to the presence of dunes or earth mounds with similar characteristics to those with visible archaeological material present.

The distribution of recorded sites was consistent with the predictive model for the KKWF project area:

- Five previously recorded and 121 newly recorded sites (artefacts, hearths, and most of the burials/earth mounds) were located in the red brown alluvial loams and aeolian sand associated with the bordering dunes and lunettes of palaeochannels (prior streams) and ancient lakes (very high sensitivity);
- Three previously recorded and 67 newly recorded sites (isolated artefacts, hearths, and eight burials/earth mounds) in the red-brown clays, clay loam alluvial plains, grey-brown cracking clays, or sandy clay soils associated with palaeochannel rangelands, bordering aeolian dunefields, and blackbox woodland (moderate sensitivity);
- One previously recorded and 20 newly recorded sites (isolated artefacts and three earth mounds) in the black, brown and grey cracking clays and depressions associated with ancient lake beds and former swamps (low sensitivity); and
- One newly recorded site (CMT) in the small area of red-brown clays and red sandy rises associated with the Murray Pine on an elevated plain (high sensitivity).

Burial and Occupation at Dry Lake and Tchelery, Via Hay (Littleton and Johnston 1993)

Littleton and Johnston prepared a heritage report to summarise two burial sites located as part of the Burial Conservation Program undertaken in conjunction with Hay LALC. The report details the identification of two burial sites located at Dry Lake and Tchelery located approximately 40 km west of the Project area.

Dry Lake west was described as containing a series of nine mounds with burial and hearth features comprised of mound and hearth features. The site was identified at the western side of Dry Lake which is notable for scalds of coarse red sands. Notably several of the burials in this location were associated with hearth or clay ball features. Mound features were reported to be spaced approximately 200 m apart with the mounds exhibiting evidence of different land uses including stone artefact production and shellfish consumption. Littleton observed that burials were most often identified in the western half of a mound feature and noted that this may reflect primarily a pattern of erosion.

The Tchelery location was identified approximately 300 m west of Dry Lake in an isolated stand of blackbox and saltbush surrounding an indistinct depression. It was assessed that this depression may have formed a water source in the past. Three mound features were identified at this location including one large mound extending approximately 80 x 120 m. As with Dry Lake, several burials were located across these mound features in associated with heat retainer hearth features.

Littleton and Johnson concluded that the sites support a pattern being identified across the Hay Plain associated burials with occupation mound sites. Burials were noted to be common and sometimes numerous in mounds were often associated with campfire debris. Littleton further notes that burials in the Hay Plain have been identified to demonstrate several unique features including a variability of burial position and posture, the inclusion of children's remains and the density of burials.

Abercrombie Water Efficiency Project Balranald, Murrumbidgee River and Hay LGAs (OzArk, 2017)

Between 2014 and 2016, OzArk Environmental & Heritage Management Pty Ltd (OzArk) conducted surveys and assessments of the Abercrombie Water Efficiency Project (AWEP), which consisted of a 10 m wide corridor along approximately 276 km of pipeline as well as small areas of ancillary water infrastructure. The AWEP study area is approximately 80 km west of the Project area. Initial investigation by OzArk had identified seven sites, three of which being open campsites. An Aboriginal Heritage Impact Permit (AHIP) application was recommended for two isolated finds (WAIF1, a grinding stone fragment; and WA-IF3, a flaked piece of silcrete), but was refused based on lack of survey coverage. Re-assessment was undertaken including pedestrian transects and an AHIP application was subsequently approved by the OEH, allowing for the harm (removal) to the two previously mentioned objects and the management of a further 42 Aboriginal objects or 'no harm' areas. The 42 'no harm' sites within the project area contained a variety of different features including PADs, modified trees, isolated artefacts, artefact scatters, and oven artefacts. The variety in site types found throughout the Keri Keri area suggests that the region was seasonally inhabited by Aboriginal people.

Darlington Point Solar Farm Aboriginal Cultural Heritage Assessment (Kelleher Nightingale Consulting Pty Ltd, 2018)

In 2017, Kelleher Nightingale Consulting (KNC) surveyed 1,050 ha of land for the Darlington Point Solar Farm (DPSF) located approximately 7.5 km south-east of the Darlington Point township (approximately 100 km east of the Project area). There were four previously registered sites within the study area (culturally modified trees, earth mounds and one hearth). The survey identified five new Aboriginal sites (four culturally modified trees, and one artefact scatter), as well as one potential culturally modified tree. The archaeological evidence indicated that a range of activities were undertaken within the study area; the nature of the scars on the culturally modified trees indicated that the bark was being acquired for several different purposes. The sites were located on flat landforms, with the majority being located within one kilometre of an unnamed drainage line. The survey identified that most of the study area contained no potential for subsurface archaeology due to the unfavourable location, tree clearance and the presence of vertosols across the area.

Aboriginal Cultural Heritage Assessment Sunraysia Solar Farm Balranald (NGH Environmental, 2016)

In 2016, NGH Environmental surveyed 800 ha of land for the proposed Sunraysia Solar Farm near Balranald, located approximately 108 km west of the current Project area. Most of the survey area was within the Condoulpe land system, consisting of sand plains and dune fields with dense to scattered mallee near Balranald. A small portion of the proposed transmission line alignment is within the Perekertin land system consisting of transitional riverine plains. The landforms were generally the same across the survey area, that is, dunes of varying heights and swales, with gentle slopes in between. The low gradient, gently sloping terrain did not provide any marked differentiation in the soils, vegetation or other variable that may have led to different Aboriginal site use of the environment.

No Aboriginal sites had been previously recorded within and adjacent to the study area. Despite the variable visibility encountered during the survey (with some land cultivated and uncultivated), three sites comprising two clusters of burnt clay recorded as ovens were recorded, as well as a site complex of seven stone artefacts and three hearths. Most of the cultural material was recorded with the Perekertin landscape system and relatively undisturbed areas. It was stated that the recorded sites were not in proximity to water sources, reflecting the opportunistic use and broader movement of people. NGH noted that lack of scarred trees in the assessment area was likely due to historic clearance across the assessment area and the lack of permanent water within the assessment area. It was stated that it was possible that additional artefacts and hearths could occur within the development footprint; however, based on the land use history of the area, there was low potential for the presence of intact subsurface deposits. NGH interpreted the nature of the archaeological material within this landscape to suggest that Aboriginal use of the landscape was intermittent.

Balranald Mineral Sands Project Aboriginal Cultural Heritage Assessment (Niche, 2015)

Between 2012 and 2014, Niche undertook a survey of approximately 2,120 ha of land for the Balranald Mineral Sands Project (totalling 9,964 ha), located approximately 133 km north-west of the current Project area. A total of 548 sites were identified over the course of the project, 383 of which were located within the study area. A database of sites for the project was created that is referred to as the Balranald Project Aboriginal Heritage Database. During the field survey an emphasis was placed on visually inspecting alluvial plains, playas and basins while sand plains, sand dunes and areas with reduced archaeological visibility had less of an emphasis placed on them. While 11 land systems were identified and surveyed within the Balranald Mineral Sands Project, a moderate number of Aboriginal sites were in the Rata landform. The project area contained landscapes with a high and moderate archaeological value, but most of the study area was considered to have low archaeological value and was assessed as being of fair to poor condition; this was reflective of the impacts of grazing and historic land use.

Stone artefact occurrences as isolated finds and clusters were the most common site types identified, followed by hearths. Niche noted that there was a strong correlation between the location of sites and dunes, rises, lunettes and exposures associated with depressions or a decrease in elevation in the landscape. Silcrete artefacts dominated the assemblage and accounted for 93.5% of the recorded artefacts. The bulk of the stone artefacts recorded were complete flakes, broken flakes and angular fragments. Retouched flakes or tools formed a small percentage of the assemblage with several tool types identified including burins, burrens, piecers and assorted scrapers. Niche (2015) concluded that within the study area sites fell into either short-term occupation or single activity sites or specific long term seasonal nodal sites.

Balranald Sun Farming Project, NSW (Biosis, 2017)

In 2017, Biosis surveyed approximately 2,058 ha of land for the Limondale Sun farm, near Balranald, located approximately 108 km west of the Project area. The study area had poor ground surface visibility and was comprised of fields of wheat and other crops. The agricultural use of the study area caused extensive disturbance, including vegetation clearance, ploughing, fencing and the creation of vehicle tracks and access roads. The two main landforms within the study area were Murrumbidgee scalded plain and Mallee cliff sandplain.

Five previously registered Aboriginal sites were located within the study area; the survey relocated all sites and found them to be in good condition. Additionally, 11 previously unrecorded sites were identified within the study area, one of which was associated with a new PAD. Most of these sites, particularly hearths and earth mound complexes, were located on red earth within Murrumbidgee scalded plain land systems. The sites located within the Mallee Cliff sandplains land system indicated much lower intensity of use than those located within the Murrumbidgee scalded plains. All stone artefacts were silcrete. The large number of hearth sites, as well as the presence of four earth mounds within the study area suggest it was likely used extensively by Aboriginal groups in the past. The presence of two examples of mixed historical and Aboriginal sites (hearths with associated historic material) demonstrate that the land continued to be used by Aboriginal people following European settlement.

6.4.3 PRELIMINARY PREDICTIVE MODEL

There are several factors which have the potential to bias the results and interpretations of former archaeological studies. These factors include elements such as:

- The landform on which a site is observed is not necessarily the site's origin. Post-depositional processes including impacts from flooding and bioturbation are likely to have resulted in the movement of archaeological deposits;
- Biases in landforms investigated are limited by proposed development locations or areas of interest to the archaeologist. Further variation in type, accuracy and level of reporting exist; and
- Site interpretation can be skewed by level of ground surface visibility and fragmentation of the archaeological record.

The following statements provide a summary of identified archaeological site patterning in the Project area:

- Stone artefact sites are likely to be located across a variety of soil and geomorphological areas within the Project area;

- Aboriginal occupation sites are likely to be concentrated in proximity to current or former watercourses (palaeochannels);
- Aboriginal sites within the Project area are likely to include instances of mounds, hearth, artefact, burial and PAD features;
- Mound, heath, burial and PAD features are likely to be concentrated in areas associated with palaeochannel landforms and in areas of ephemeral lakes and swamps;
- AAR sites are likely to be located within raised sandy landforms found in association with palaeochannel features as well as within mound features;
- Archaeological remains associated with low lying clay-based environments within the Project area are likely to be limited to surface artefact sites;
- Culturally modified trees (CMTs) may be present across the Project area in areas of mature vegetation. Due to the limited presence of tree species across the Project area, CMTs are likely to be rare within the Project area; and
- Disturbance to Aboriginal sites across the Project area is likely to be associated with the impact of stock grazing (refer to following Section 7.1 for description of historical land use), flooding, erosion and wind. These post-depositional forces are considered likely to have had a significant impact on the geographic distribution and intactness of archaeological material.

The Project area is considered to demonstrate moderate to high potential to contain Aboriginal sites.

7. HISTORICAL CONTEXT

This chapter considers the potential historic heritage values for the Project area. It includes a review of primary and secondary resources including available heritage assessments, reports, publications, historical maps and aerial imagery for the local area. This material was used to develop an overview the Project area's history and development over time. This section will also review existing historic heritage listings across the Project area and its vicinity.

7.1 HISTORICAL OVERVIEW

Early European exploration of the Murrumbidgee Region occurred from the 1820's with expeditions originally focused along the Murrumbidgee River. Charles Sturt's accounts, from his explorations of the the Murrumbidgee and lower Murray Rivers between 1828-31, describing the treeless plains and good water sources lured graziers to the region. Pastoral stations focused on cattle grazing were established in the lower Murrumbidgee region from the 1820s. By 1841, the Murrumbidgee District contained 147 stations, and by 1845 an average pastoral property stocked mainly with cattle around the Murray-Murrumbidgee junction, comprised eighty thousand hectares (Eardley, 1999).

Development of towns within the region soon followed. The locality of the Hay township was originally known as Lang's Crossing; it was named after the three Lang brothers (Thomas, William and Gideon Lang) who were leaseholders of the Mungadingadal, Eli Elwah, and Nyangay Runs (encompassing the Project area). The Lang Brothers pioneered a stock route to their pastoral run from the early 1850s when they began to transport cattle across the Murrumbidgee from Queensland, to their property in the south; the route was known as 'Lang's Wool Road'. The location of the stock route at Lang's Crossing was regularly used and the 'Great North Road' also crossed the Murrumbidgee at this location, for supply to the Victorian market in the wake of the gold rushes (Beissel, 2008). In 1858-59 a store, inn and punt service were built at Lang's Crossing; the place became an important port for steam-boat navigation of the Murrumbidgee (Hay Shire Council, 2023).

The town was gazetted in 1858 and surveyed the following year; it was named after Sir John Hay, a local pastoralist and Member of parliament. In 1859 the first Post office was opened and in 1860 the original courthouse was built (now present location of the Post Office). Cobb & Co Coaches made Hay the headquarters of their Victoria and Riverine operations from 1862 to 1896, setting up a coach factory on the corner of Lachlan and Randall Streets; this became the largest coach factory in Australia outside of Sydney (Hay Shire Council, 2023). As it developed, Hay became a service hub for the large pastoral district. The Municipal Council of Hay was proclaimed in 1872 and the town was connected by rail to Narrandera in 1882 (Historical Encounters, 2023).

The western portion of the Project area is largely within the historic parishes of Abercrombie, Twynam, Melrose, Beresford, Paradise, Midgecleugh, and Paradise of Waradgery County. The eastern portion of the Project area is largely within the historic parishes of Narrawidgery, Beresford, Rankin, Paradise East, Cuba and Wirkenberjal of Waradgery County (Figure 7-2). The Project area encompasses the Crown lands within the boundaries of several large pastoral holdings; Mungadingadal Run (76,1000 acres), Mungadingadal Back Run (55,300 acres), Eli Elwah Run (86, 200 acres), Eli Elwah Block A Run (30,000 acres), Eli Elwah Block B Run (30,000 acres), Burrabogie Block A Run (54,200 acres), and Bald Hill Run (21,000 acres); these runs were within the 'Old Man Plain' (Figure 7-1) (Historic Lands Record Viewer, accessed 3 May 2023).

The Mungadingadal Run was held originally by John Tooth and was acquired by the three Lang brothers (whom Lang's Crossing was later named after) in c.1845. The main homestead of the property was near the locality of Lang's Crossing on Murrumbidgee River (north of the Project area) (Beissel, 2008). The Mungadingadal Run was later acquired in c.1865 by Colin William Simson who predominantly focused on sheep farming and wool production (New South Wales Government Gazette, 1874: 3474; The Australasian, 1914: 8). The Run became known as 'Mungadal' and by 1893 several pastoral improvements and structures had been constructed across the run. Noted structures included fencing, station buildings and working plant. It was stated that *there was no ring-barking or scrubbing improvements; the land was all hard plains without a tree. The country consisted of saltbush plains, without water. The country had suffered from the rabbit pest since the beginning of 1883* (The Riverine Grazier, 1894: 4). Mungadal Stud was established in 1902 and continues to operate under the same name today (The Australasian, 1914: 8). Anthony Hordern purchased Mungadal Station in 1923 for £250,000. At the time, and at 111,710 acres, Mungadal was one of the largest freehold stations in the Murrumbidgee region.

The Eli Elwah Run was acquired in the mid-1850s by the Lang brothers and later by James and George Russell (Beissel, 2008). Parish Maps of Eli Elwah Holding illustrate several structures and features, including five tanks, a well and a dam within the eastern portion of the Project area (Figure 7-3). However, the homestead for the property was adjacent to the Murrumbidgee River (north of the Project area) (Historic Lands Record Viewer, accessed 3 May 2023).

The Cobb Highway that runs between the western and eastern portions of the Project area was gazetted in c.1928 and was named the 'Cobb' in 1947 in honour of Cobb & Co Coaches.

Little has changed in the use of these properties, as pastoral grazing of sheep and cattle is still the principal industry of the region. Recently, following the purchase of the original Mungadal property by Paraway Pastoral Company in 2010, Mungadal Station expanded through the acquisition of the Pevensey, Ulonga, and Rosevale properties, and now covers a total area of 116,994 hectares (Paraway Pastoral Co. 2021). Mungadal Station consists mostly of native saltbush plains which are utilised for sheep grazing. It also contains numerous bores, areas of irrigated cropping, an extensive pipe and trough system, and a frontage onto the Murrumbidgee River at the northern end of the original property. Today, Mungadal Station and its surrounds consists mostly of native saltbush plains which are utilised for sheep grazing. It also contains numerous bores, areas of irrigated cropping, an extensive pipe and trough system, and a frontage onto the Murrumbidgee River at the northern end of the original property.

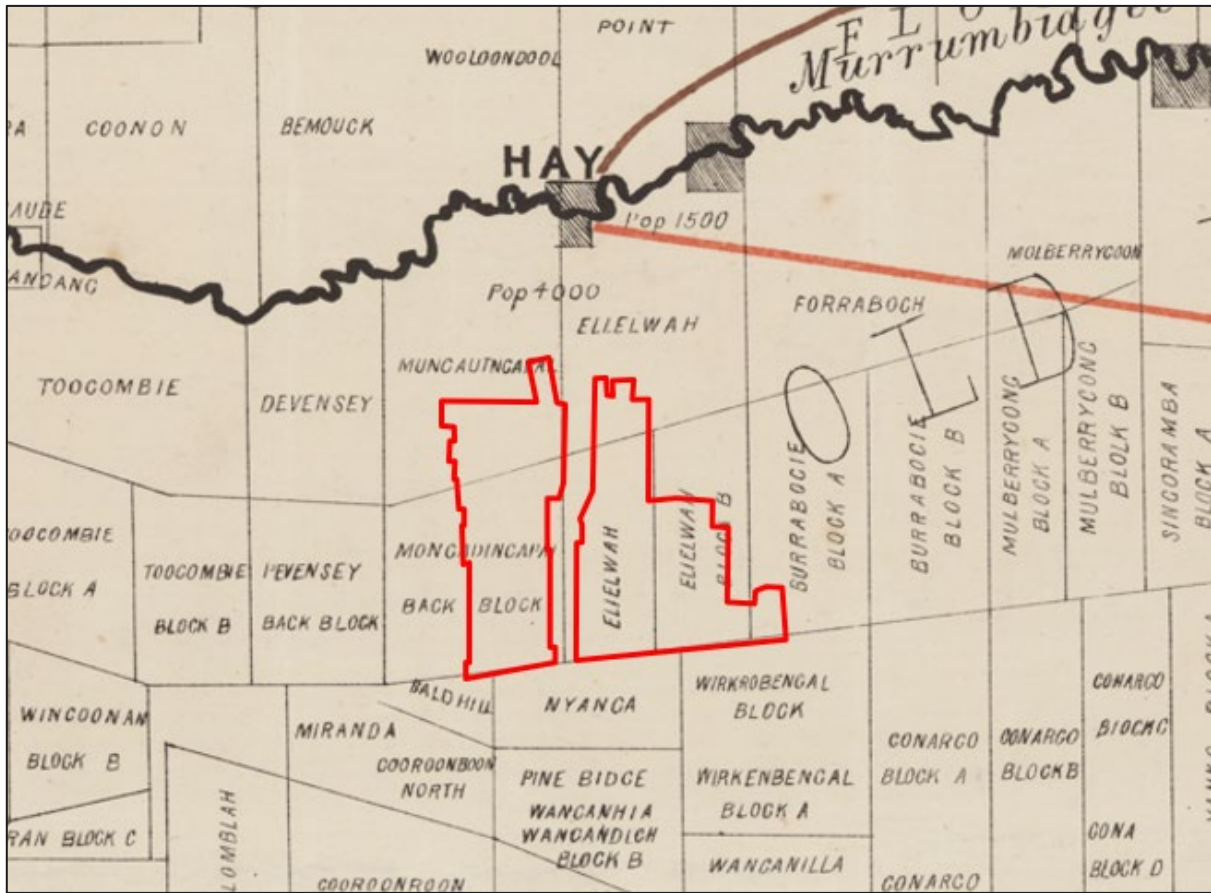


FIGURE 7-1 DETAIL OF 'DIRECT ROUTE TO HAY FROM WAGGA WAGGA' (C.1881) SHOWING PROJECT AREA WITHIN SEVERAL PASTORAL RUNS (STATE LIBRARY NSW, M2 814.2/1881/1).

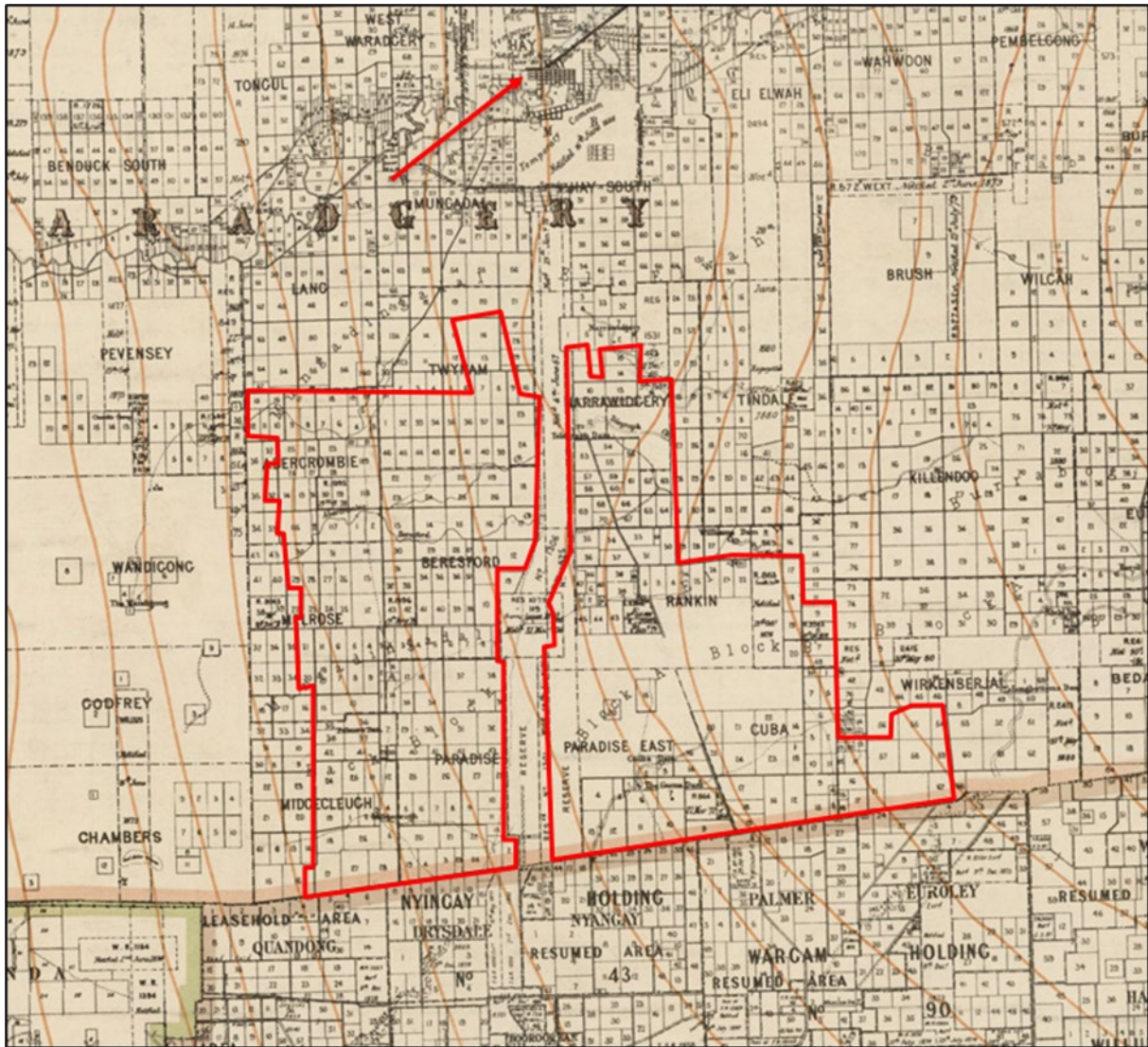


FIGURE 7-2 DETAIL OF 'PLAN SHOWING MURRUMBIDGEE RIVER DISTRICT' (1901), SHOWING PROJECT AREA (OUTLINED RED) AND HAY TO NORTH (ARROWED) (STATE LIBRARY NSW, Z/M3 814/1901/1).

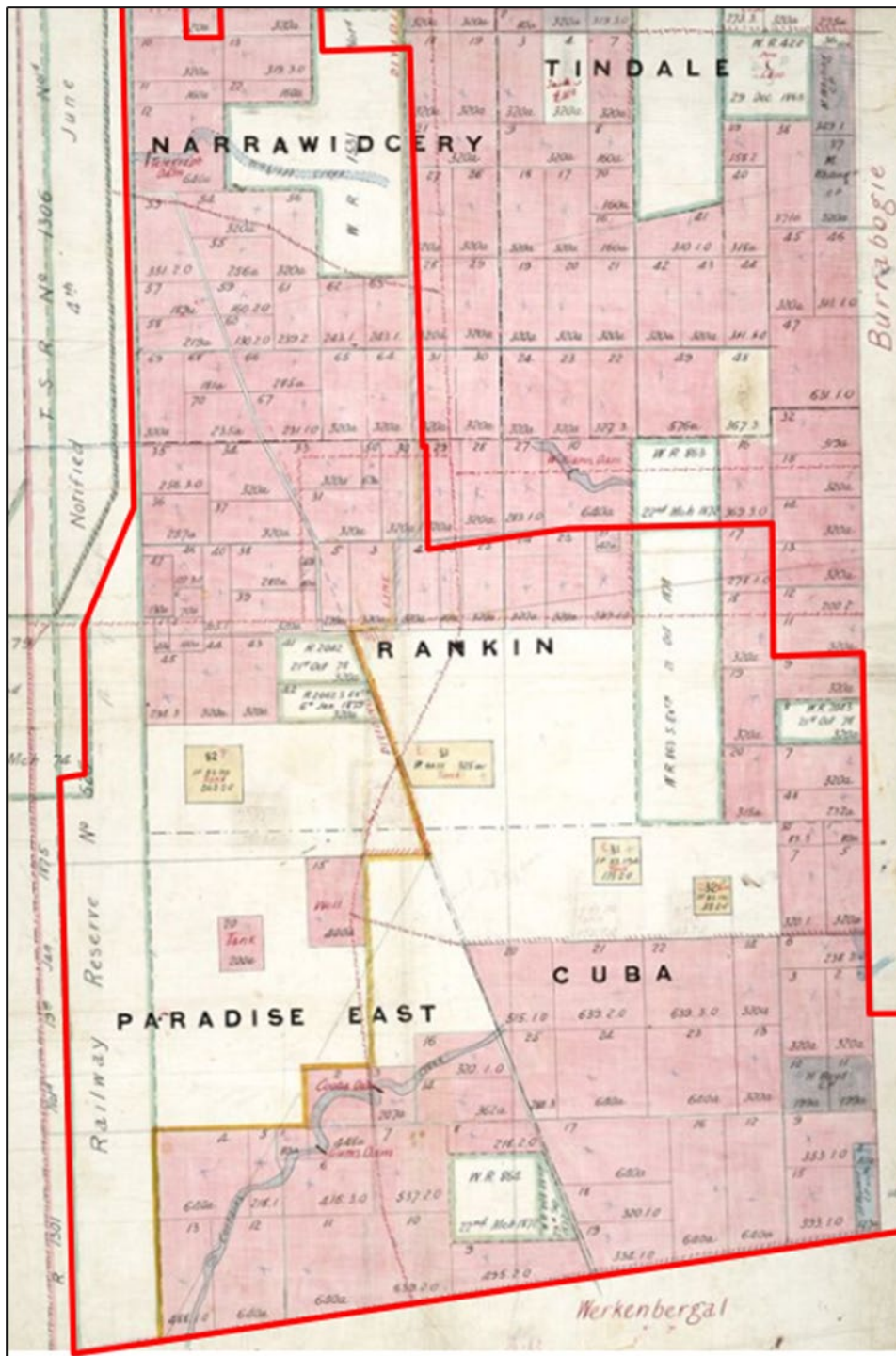


FIGURE 7-3 DETAIL OF PLAN OF ELI-ELWAH HOLDING (N.D, C.1884), SHOWING STRUCTURES WITHIN THE EASTERN PORTION OF THE PROJECT AREA INCLUDING 5 TANKS AND A WELL (HISTORICAL LANDS RECORD VIEWER, [HTTPS://HLRV.NSWLRS.COM.AU/](https://HLRV.NSWLRS.COM.AU/))

7.2 HISTORICAL HERITAGE DATABASE SEARCHES

The following databases were searched to determine whether known non-Aboriginal ('historic') heritage sites are located within the Project area:

- Australian Heritage Database including the following heritage lists:
 - World Heritage List;
 - National Heritage List;
 - Commonwealth Heritage List; and
 - Register of the National Estate (non-statutory).
- NSW State Heritage Inventory including the following heritage lists:
 - SHR; and
 - Selected S170 Heritage Registers.
- Hay LEP 2011.

A search of heritage databases was undertaken on 8 May 2023 to determine whether any historic heritage items have previously been registered within the Project area or with in the immediate vicinity.

For the purposes of this assessment, heritage items within 5 km of the Project area were considered to be in the vicinity of the Project area.

The results are outlined below.

7.2.1 STATUTORY HERITAGE REGISTER SEARCHES

Commonwealth Heritage List

The Commonwealth Heritage List includes natural, Indigenous and historical heritage places owned or controlled by the Australian Government. Items on the list have satisfied the minister as having one or more Commonwealth Heritage values.

There are no Commonwealth Heritage listed places within or in proximity to the Project area.

National Heritage List

The Australian National Heritage List contains natural, historic, and Indigenous places deemed to be of outstanding heritage significance to Australia. Before a site is placed on the list a nominated place is assessed against nine criteria by the Australia Heritage Council.

There are no National Heritage listed places within or in proximity to the Project area.

State Heritage Register

A search of the NSW State Heritage Register (SHR) was conducted on 8 May 2023. The search revealed that there are no SHR-listed items within or in proximity to the Project area.

The search noted four SHR items located within the township of Hay, approximately 25km of the Project area.

Hay Local Environmental Plan 2011

A search of the Hay Local Environmental Plan (LEP) 2013 was conducted on 8 May 2023. The search identified no locally heritage listed sites within or in close proximity to the Project area.

The search noted 16 locally listed heritage items located within the township of Hay, approximately 25 km from the Project area.

Section 170 Heritage Registers

Section 170 of the *Heritage Act 1977* requires all NSW state agencies to identify, conserve and manage the heritage assets owned, managed and occupied by that agency. To facilitate this, Section 170 heritage registers were established for all NSW government agencies. These registers are held and maintained by each state agency and updated as assets are acquired, altered, or decommissioned. A search of the relevant Section 170 registers was undertaken on 8 May 2023.

No Section 170 heritage places are located within or in proximity to the Project area.

7.2.2 NON-STATUTORY CONSIDERATIONS

Register of the National Estate

The Register of the National Estate (RNE) is a non-statutory archive of natural, historic and Indigenous places and incorporates over 13,000 places. Originally compiled between 1976 and 2003 by the Australian Heritage Commission, the register is now maintained by the Australian Heritage Council.

Following amendments to the Australian Heritage Council Act 2003, the RNE was frozen on 19 February 2007, which means that no new places can be added, or removed. Since February 2012 the RNE has been maintained as a non-statutory listing.

A search of the Australian Heritage Database was undertaken on 8 May 2023. This search identified no RNE listed places within or in proximity to the Project area.

8. SURVEY METHODOLOGY

8.1 AIMS

The aims of the preliminary cultural heritage survey were to:

- Cover a representative sample of the Project area that would potentially be impacted by the Wind Farm development;
- To provide the RAPs an opportunity to provide feedback on the cultural values and elements of cultural heritage significance within the Project area; and
- Record all Aboriginal objects or sites identified during survey.

8.2 METHODOLOGY AND COVERAGE

Survey comprised the completion of linear transects across the footprint of the proposed solar farm, proposed access tracks as well as associated infrastructure. Survey targeted several landforms within discrete transects to sample both high and low potential landforms. Landforms associated with palaeochannel environments as delineated by gently raised red sandy landforms were a particular focus of survey.

Each WTG corridor, encompassing associated infrastructure and areas of proposed ground disturbance, was recorded as a separate survey unit (Table 8-2). Survey of each transect was undertaken using a combined method of pedestrian survey and driving, with a survey team of between nine and 13 people with the team spaced approximately 30 – 50 m apart depending on ground visibility and landform features. Where areas of exposure or visible potential archaeological features were identified were identified members of the transect team temporarily deviated from their assigned transect.

ArcGIS tracklog was used to track the path of the members of the survey team, record the coordinates of survey transects as well as the location of Aboriginal sites.

A photographic record was kept during the survey. Photographs were taken to record aspects of each survey unit including landform, surface exposures, vegetation, areas of disturbance, and any identified Aboriginal site or area of archaeological potential. Scales were used for photographs where required, as specified in the Code of Practice.

The Project Area was adjusted following the surveys, resulting in a reduction of the Project area, and wind farm footprint.

8.3 PARTICIPANTS

The first field season across the Project area was undertaken between 4 April and 14 April 2023. The second field season across the Project area was undertaken between 8 August and 16 August 2023. Excellent survey conditions meant that field programmes did not have any delays or cancellations and approximately 2/3 of the ground disturbance areas were covered by transects.

Participants in each survey day is shown in Table 8-1.

TABLE 8-1 SURVEY ATTENDANCE

Name	Organisation	Role	Date
Lorien Perchard	ERM	Survey supervisor	First season: 04/04/2023 - 08/04/2023
Victoria Gleeson	ERM	Archaeologist	First season: 05/04/2023 - 08/04/2023; 10/04/2023 -14/04/2023 Second season: 08/08/2023 - 16/08/2023
Mark Dowdell	ERM	Senior Archaeologist	First season: 10/04/2023 -14/04/2023
Maggie Cronin	ERM	Archaeologist	Second season: 08/08/2023 - 16/08/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 04/04/2023 - 08/04/2023; 11/04/2023; 13/04/2023 -14/04/2023 Second season: 08/08/2023 - 12/08/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 04/04/2023 - 05/04/2023; 10/04/2023 - 14/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 04/04/2023- 08/04/2023; 10/04/2023-14/04/2023 Second season: 08/08/2023 - 12/08/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 04/04/2023 - 05/04/2023; 10/04/2023 - 14/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 04/04/2023 - 07/04/2023; 10/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 04/04/2023 - 08/04/2023; 11/04/2023 Second season: 10/08/2023 - 12/08/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 04/04/2023 - 05/04/2023; 07/04/2023 -08/04/2023; 10/04/2023; 12/04/2023 -13/04/2023 Second season: 08/08/2023 - 10/08/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 06/04/2023 - 08/04/2023; 10/04/2023 -14/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 06/04/2023; 12/04/2023 -14/04/2023 Second season: 08/08/2023 - 10/08/2023

Name	Organisation	Role	Date
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 06/04/2023 - 07/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 07/04/2023 - 08/04/2023; 10/04/2023-11/04/2023; 14/04/2023 Second season: 11/08/2023 - 12/08/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	First season: 08/04/2023; 10/04/2023 -14/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP ranger	First season: 07/04/2023 - 08/04/2023; 12/04/2023- 13/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP ranger	First season: 07/04/2023 - 08/04/2023; 10/04/2023-11/04/2023, 14/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP ranger	First season: 12/04/2023 -14/04/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	Second season: 08/08/2023 - 12/08/2023
[removed from public display]	Hay LALC/ Nari Nari Tribal Council	RAP site officer	Second season: 12/08/2023
[removed from public display]	Deniliquin LALC	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Deniliquin LALC	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Yarkuwa Indigenous Knowledge Centre	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Yarkuwa Indigenous Knowledge Centre	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Pappin Family Aboriginal Corporation	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Pappin Family Aboriginal Corporation	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Bangerang Aboriginal Corporation	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Bangerang Aboriginal Corporation	RAP site officer	Second season: 15/08/2023 - 16/08/2023
[removed from public display]	Individual	RAP site officer	Second season: 15/08/2023 - 16/08/2023

8.4 SURVEY COVERAGE

An assessment of survey coverage was completed to quantitatively assess the effectiveness of the survey at identifying Aboriginal objects. The assessment of effective survey coverage provides a measure of whether Aboriginal objects are readily visible, buried or otherwise obscured. The conditions which effect the detection of Aboriginal objects are referred to as exposure and visibility.

Visibility is the amount of bare ground that is present across a survey area. Visibility is lowered by elements which conceal the ground surface such as leaf litter, vegetation, stony ground or introduced materials.

Exposure estimates the percentage of land for which erosional processes and exposure was sufficient to reveal archaeological evidence on the ground.

In accordance with the Code of Practice, a summary of the survey coverage as delineated into SUs and landform is provided in Table 8-2 and Table 8-3. The landforms have been designated according to their Aboriginal heritage sensitivity (see Section 9.4). The below survey coverage information relates to the current layout of the wind farm development footprint.

TABLE 8-2 SURVEY COVERAGE SUMMARY – SUS

Survey Unit	Survey Unit Area (m ²)	Landform	Visibility (%)	Exposure (%)	Effective Coverage (m ²)	Effective Coverage (%)
AW	3,940,280	Prior Stream (Paleochannel Landform), Hay Plain, Wetland (Paleochannel Landform)	20%	15%	118,208	3%
BW	5,240,050	Flood plain (Palaeochannel Landform) / Hay Plain	15%	10%	78,601	2%
CW	5,158,490	Flood plain (Palaeochannel Landform) / Hay Plain	25%	45%	580,330	11%
CE	9,530,220	Flood plain (Paleochannel Landform), Curtains Creek	20%	40%	762,418	8%
DW	4,905,420	Prior Stream (Palaeochannel Landform) / Hay Plain / Paleo Wetlands	45%	30%	662,232	14%
DE	7,316,400	Flood plain (Paleochannel Landform) / Hay Plain	20%	15%	219,492	3%

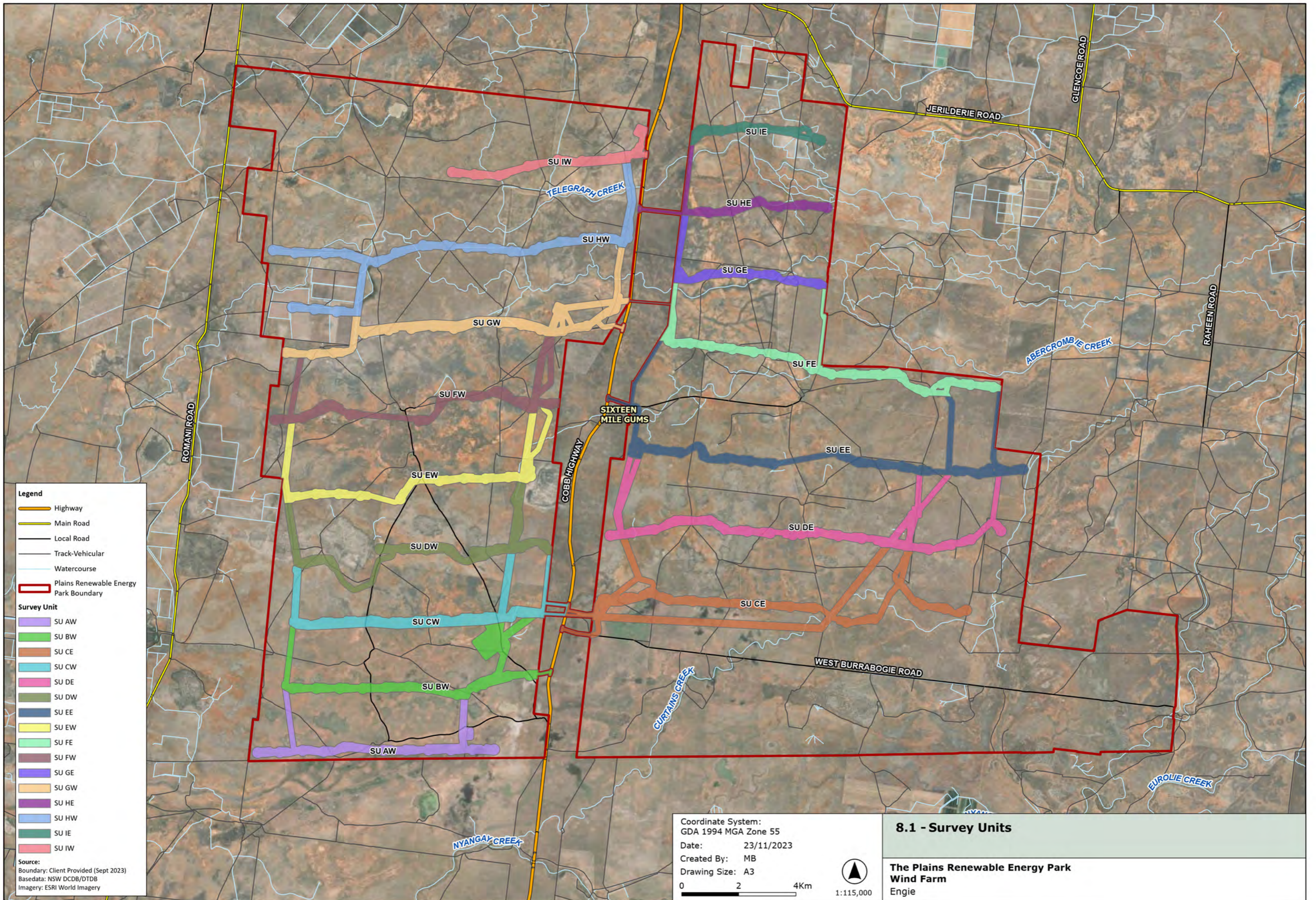
Survey Unit	Survey Unit Area (m2)	Landform	Visibility (%)	Exposure (%)	Effective Coverage (m2)	Effective Coverage (%)
EW	4,731,730	Prior Stream (Paleochannel Landform), Hay Plain, Wetland (Paleochannel Landform)	50%	25%	591,466	12%
EE	6,397,930	Prior Stream (Paleochannel Landform), Hay Plain	45%	30%	863,721	14%
FW	5,017,200	Flood plain (Palaeochannel Landform) / Hay Plain	85%	70%	2,985,234	60%
FE	5,143,830	Prior Stream (Paleochannel Landform), Abercrombie Creek / Hay Plain	20%	15%	154,315	3%
GW	6,293,690	Prior Stream (Paleochannel Landform), Abercrombie Creek / Riverine Plain	50%	25%	786,711	12%
GE	2,305,120	Prior Stream (Paleochannel Landform) Abercrombie Creek	45%	25%	259,326	11%
HW	6,480,600	Prior Stream (Palaeochannel Landform) Abercrombie Creek; Telegraph Creek	30%	20%	388,836	6%
HE	2,281,290	Prior Stream (Paleochannel Landform), Telegraph Creek	40%	20%	182,503	8%
IE	1,775,250	Prior Stream (Palaeochannel Landform), Telegraph Creek	45%	20%	159,773	9%
IW	2,721,340	Prior Stream (Paleochannel Landform), Telegraph Creek, Hay Plain	10%	15%	40,820	1%

TABLE 8-3 SURVEY COVERAGE SUMMARY – LANDFORMS (AS DESCRIBED BY ABORIGINAL HERITAGE SENSITIVITY)

Landform	Landform Area (m2)	Area Surveyed (m2)	Percentage of Landform Surveyed (%)	Area Effectively Surveyed (m2)	Percentage of Landform Effectively Surveyed (%)	Number of Sites
High (total)	231,575,600	13,894,536	6%	1,621,029	0.7%	13
High (inside corridor)	31,285,130	25,028,104	80%	2,502,810	10%	50
Moderate (total)	307,371,840	12,294,873	4%	1,229,487	0.4%	8
Moderate (inside corridor)	47,953,120	28,771,872	60%	1,726,312	6%	22

8.5 SURVEY UNITS

A summary of each survey unit is provided in Table 8-4 and shown in Table 8-1.



Legend

- Highway
- Main Road
- Local Road
- Track-Vehicular
- Watercourse
- Plains Renewable Energy Park Boundary

Survey Unit

- SU AW
- SU BW
- SU CE
- SU CW
- SU DE
- SU DW
- SU EE
- SU EW
- SU FE
- SU FW
- SU GE
- SU GW
- SU HE
- SU HW
- SU IE
- SU IW

Source:
 Boundary: Client Provided (Sept 2023)
 Basedata: NSW DCDB/DTDB
 Imagery: ESRI World Imagery



Coordinate System:
 GDA 1994 MGA Zone 55
 Date: 23/11/2023
 Created By: MB
 Drawing Size: A3



0 2 4km
 1:115,000



8.1 - Survey Units



The Plains Renewable Energy Park
 Wind Farm
 Engie



TABLE 8-4 WIND FARM SURVEY UNITS



Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit AW</p> <p>Landform features: Prior Stream (Paleochannel Landform), Hay Plain, Wetland (Paleochannel Landform)</p> <p>Size: 394 ha Visibility: 20% Exposure: 15%</p>	<p>SU AW was located towards the southern portion of the Project area on the west side of the Cobb Highway. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Soils were dominated by red to red-grey silty sands associated with the Hay Plain landscape.</p> <p>The SU AW corridor was densely vegetated making ground visibility low across most of the SU. Vegetation within SU AW comprised native grasses, and annual saltbushes.</p> <p>A dam was present in approximate location of WTG AW06, and a concrete trough was present in the eastern area of SU. Access tracks were observed throughout the SU.</p> <p>Archaeological remains within the SU included artefact scatters and an area of PAD.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; and • PAD <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-1 VIEW EAST ACROSS SU AW FROM APPROXIMATE LOCATION OF WTG AW07 (ERM, 2023)</p>
<p>Survey Unit BW</p> <p>Landform features: Flood plain (Palaeochannel Landform) / Hay Plain</p> <p>Size: 524 ha Visibility: 15% Exposure: 10%</p>	<p>SU BW was located towards the southern portion of the Project area on the west side of the Cobb Highway. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Sediments were largely characterized by red-grey sandy-loam soils.</p> <p>The SU BW corridor was densely vegetated making ground visibility low across most of the SU. Vegetation within SU AW comprised low grasses, and weeds.</p> <p>One site was recorded within the SU, comprising a low-density artefact scatter and PAD.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; and • PAD <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-2 VIEW WEST ACROSS SU BW FROM APPROXIMATE LOCATION OF WTG BW04 (ERM, 2023)</p>



Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit CW</p> <p>Landform features: Flood plain (Palaeochannel Landform) / Hay Plain</p> <p>Size: 516 ha Visibility: 25% Exposure: 45%</p>	<p>SU CW was located towards the southern portion of the Project area on the west side of the Cobb Highway. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.5 m in height. Soils were dominated by red to red-grey silty sands associated with the Hay plain landscape.</p> <p>Vegetation within SU CW was comprised of native grasses, ground creepers annual saltbushes. A relatively extensive undergrowth layer consisted of native grass and flower species and provided a dense degree of groundcover.</p> <p>A dam, tanks and a windmill were noted in the vicinity of the SU.</p> <p>Archaeological remains within the SU included isolated artefacts, artefact scatters, an area of PAD, and five weathered clay hearths.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; • Hearth; and • PAD <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-3 LANDSCAPE WITHIN NORTHWEST CORRIDOR OF SU CW (ERM, 2023)</p>  <p>PHOTOGRAPH 8-4 VIEW WEST ACROSS SU CW AT APPROX. LOCATION OF WTG CW08 (ERM, 2023)</p>


Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit CE</p> <p>Landform features: Flood plain (Paleochannel Landform), Curtains Creek</p> <p>Size: 953 ha Visibility: 20% Exposure: 40%</p>	<p>SU CE was in the southern portion of the Project area on the eastern side of the Cobb Highway. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations. Soils were dominated by red sands and clay.</p> <p>Vegetation within SU comprised grasses and weeds; the vegetation was noted as being denser in the eastern half of the SU. Patches of ground visibility existed in the central and western areas. Two dams were present in the western area of SU.</p> <p>Archaeological remains within the SU included low-density artefact scatters, PAD and three weathered</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; • PAD; and • Hearth <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-5 APPROX. LOCATION OF WTG CE07 WITHIN SU CE (ERM, 2023)</p>  <p>PHOTOGRAPH 8-6 VIEW NORTH-EAST OF APPROX. LOCATION OF WTG CE02 SU CE (ERM, 2023)</p>



Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit DW</p> <p>Landform features: Prior Stream (Palaeochannel Landform) / Hay Plain / Paleo Wetlands</p> <p>Size: 491 ha Visibility: 45% Exposure: 30%</p>	<p>SU DW was in the south to central extent of the Project area on the west side of the Cobb Highway. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.5 m in height. Soils were dominated by red to red-grey silty sands associated with the Hay plain landscape. The soil profile differed in the from WTGs DW07 to DW09 with grey clay soils present from previous wetland soils. The Big Green Swamp Wetland was present to the north of WTG DW03.</p> <p>Vegetation generally comprised native grasses and shrubs, with scour surfaces and clay pans being a regular occurrence. Low ground visibility was present as grasses formed some degree of groundcover. No tree species were identified within the SU.</p> <p>Archaeological remains within the SU included a large artefact scatter containing possibly over 500 artefacts with material type ranging from quartz, silcrete, chert and volcanic. 70% ground visibility within the site extent. Potential weathered hearth and PAD were also recorded at the site. An isolated artefact was also recorded in the SU.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; • PAD; and • Hearth <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-7 LANDSCAPE AND CHANGE IN SOIL PROFILE AROUND WETLAND AREAS IN SU DW IN APPROX. LOCATION OF WTG DW07 AND WTG DW09 (ERM, 2023)</p>  <p>PHOTOGRAPH 8-8 RED SAND AND HIGH GROUND VISIBILITY WITHIN SITE PREP SU H05 LOCATED NEAR WTG DW07 (ERM, 2023)</p>



Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit DE</p> <p>Landform features: Flood plain (Paleochannel Landform) / Hay Plain</p> <p>Size: 732 ha Visibility: 20% Exposure: 15%</p>	<p>SU DE was located towards the southern portion of the eastern side of the Project area. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Sediments were characterized by red and grey sandy-loam soils.</p> <p>Shrub coverage varied from sparse to moderate throughout SU DE. Dominant vegetation species included Oldman’s Saltbush and Ruby Saltbush species. A relatively extensive undergrowth layer consisted of native grass and flower species and provided a greater degree of groundcover compared to other SUs. As with other SUs, invasive grasses were present.</p> <p>An overhead powerline runs N-S through the SU between WTG DE08 & WTG DE09.</p> <p>A range of artefact types were recorded during survey of SU DE, comprising silcrete and quartz broken and retouched flakes. A concentration of weathered clay balls was present in a landform feature indicating a possible PAD however the slight depressions and rises had low ground visibility making artefacts difficult to see. One weathered clay hearth was also present in the central area.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; • PAD; and • Hearth <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-9 LANDSCAPE OF SU DE FACING NORTH. APPROX LOCATION OF WTG DE18 (ERM, 2023)</p>  <p>PHOTOGRAPH 8-10 VIEW EAST OF SU DE IN APPROX. LOCATION OF WTG DE05 (ERM, 2023)</p>



Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit EW</p> <p>Landform features: Prior Stream (Paleochannel Landform), Hay Plain, Wetland (Paleochannel Landform)</p> <p>Size: 473 ha Visibility: 50% Exposure: 25%</p>	<p>SU EW was located within the centre portion of the Project area on the west side of the Cobb Highway. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Sediments were largely characterized by red-grey sandy-loam soils associated with the prior stream landscape of 16 Mile Creek. Where the paleochannel was present within SU, a difference in vegetation was noted; denser vegetation was present within the depression.</p> <p>Vegetation generally comprised low-lying grasses and saltbush. There was low ground visibility across most of the SU due to dense vegetation; however, patches of visibility were present in areas of exposed red sand and clay. These were mostly located in those areas adjacent to the palaeochannel.</p> <p>A range of site types were recorded during the survey of EW. This included numerous isolated artefacts, artefacts scatters, hearth features, and PADs. Three artefact scatters were associated with hearth features suggesting longer term occupation. A culturally modified tree (with shield scar) was also recorded in close proximity to the SU.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; • Hearth; • PAD; and • CMT <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-11 LANDSCAPE SURROUNDING WTG EW11. NOTE THE DENSE GRASSES AND GROUND COVERAGE ASSOCIATED WITH PALEO WETLAND (ERM, 2023)</p>  <p>PHOTOGRAPH 8-12 VIEW WEST OF SU EW IN APPROX. LOCATION OF WTG EW04 (ERM, 2023)</p>



Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit EE</p> <p>Landform features: Prior Stream (Paleochannel Landform), Hay Plain</p> <p>Size: 640 ha Visibility: 45% Exposure: 30%</p>	<p>SU EE was located towards the centre portion on the eastern side of Project area. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Adjacent to the Cobb Highway there was a slight change in relief with a drop of elevation approx. 0.5 m across the landscape. Sediments were characterized by red-grey sandy-loam soils.</p> <p>Shrub coverage was generally dense, and no trees were present within the SU. Dominant vegetation species included Saltbush species. A relatively extensive undergrowth layer consisted of native grass and flower species and provided a greater degree of groundcover compared to other SUs. As with other SUs, invasive grasses were present.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-13 LANDSCAPE OF SU EE FACING WEST (ERM, 2023)</p>
<p>Survey Unit FW</p> <p>Landform features: Flood plain (Palaeochannel Landform) / Hay Plain</p> <p>Size: 502 ha Visibility: 85% Exposure: 70%</p>	<p>SU FW was located as the central corridor of the Project area on the west side of the Cobb Highway. Sediments were predominantly characterized by red sands and red-grey sandy-loam soils associated with the Prior Stream (Paleo channel) landform.</p> <p>A dense layer of native grasses resulted in low ground visibility within the western half of the Project area than East of Cobb Highway. Large expanses of red sand scours with high ground visibility were present from WTG FW08 to FW10 and were inspected closely for sites and artefacts. There was an overgrown swampy area in the eastern part of SU between WTG FW11 and FW12. The landscape was predominantly flat with undulating small rises and mounds as well as depressions. Larger mounds were noted in the far eastern area of SU FW and a large depression between WTG FW07 and FW08. Several eucalypts in area of WTG FW07 (centre of SU).</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; • Hearth; and • PAD <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-14 LANDSCAPE OF SU EE FACING WEST (ERM, 2023)</p>



Survey Unit	Description	Identified cultural features	Photograph
	<p>Dense native grasses and shrubs west of WTG FW07 (old man saltbush and trees).</p> <p>The North-South corridor on western side of the SU comprises lighter soils (less red sand). There was low lying vegetation and shrubs in this area. A deep linear irrigation channel (man-made, artificial) with water runs E-W across corridor.</p> <p>A range of site types were recorded during the survey of corridor FW including several large artefact scatters, hearths, and PADs.</p>		
<p>Survey Unit FE</p> <p>Landform features: Prior Stream (Paleochannel Landform), Abercrombie Creek / Hay Plain</p> <p>Size: 514 ha Visibility: 20% Exposure: 15%</p>	<p>SU FE was in the centre of the eastern side of the Project area. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations. Sediments of most of the SU were characterized by red to grey loam soils ranging in texture between silts and clays within an area assessed to represent the Paleochannel Abercrombie Creek landform which was located approx. 400m north of the eastern end of the transect. Soils within this portion of the SU included a red brown sandy soil. One large dam was located within the SU indicating historical ground disturbance of that area.</p> <p>Vegetation for SU FE was characterised by relatively abundant native grasses and other related light groundcover species and semi-isolated patches of Saltbush species.</p> <p>A range of site types were recorded during the survey of corridor FE including artefact scatters, hearths, and PADs. A large sandstone grinding dish was recorded to the south of WTG FE10 (outside of the SU).</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact (including large sandstone grinding dish); • Hearth; and • PAD <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-15 LANDSCAPE OF SU FE LOCATED NEAR WTG FE15 FACING NORTH-WEST (ERM, 2023)</p>

Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit GW</p> <p>Landform features: Prior Stream (Paleochannel Landform), Abercrombie Creek / Riverine Plain</p> <p>Size: 629 ha Visibility: 50% Exposure: 25%</p>	<p>SU GW was located towards the northern boundary of the Project area. The landscape was predominantly flat, with little discernible topography with gentle undulations measuring no more than approximately 0.5 m in height. Sediments were comprised of red-grey-brown loamy clays associated with the Palaeochannel of the Riverine and Hay Plain landform whilst the soils to the east of the SU were red silty-sand soils and consistent with scour surfaces.</p> <p>Low ground visibility in far western area was due to dense native grasses comprising low shrubs, ground creepers and saltbush. Dams, tanks and trough present in vicinity of corridor. Central area comprised higher grasses and shrubs, contributing to lower ground visibility. The eastern area contained low-lying vegetation and increased ground visibility with patches of exposed red sand. A slight depression was noted in proximity to WTG GW15.</p> <p>Archaeological material comprised of low-density artefact scatters, isolated artefacts and landform features which indicated the possibility of PADs.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; and • PAD <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-16 LANDSCAPE OF SU GW NEAR WTG GW11. NOTE SCOUR SURFACE OF RED SANDY CLAY (ERM, 2023)</p>  <p>PHOTOGRAPH 8-17 VIEW NORTH OF PALEOCHANNEL (ABERCROMBIE CREEK). NOTE DEPRESSION AND LOAMY CLAYS (ERM, 2023)</p>

Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit GE</p> <p>Landform features: Prior Stream (Paleochannel Landform) Abercrombie Creek</p> <p>Size: 231 ha Visibility: 45% Exposure: 25%</p>	<p>SU GE was within the north central portion of the Project area. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Sediments to the west of the SU were predominantly red silty-sand soils, with some areas of grey-brown throughout. Sections of SU GE transect through Abercrombie Creek paleochannel and a slight variation in grass and elevation due to the paleo riverbank was observed.</p> <p>Across the majority of SU GE, vegetation was characterised by relatively abundant native grasses and other related light groundcover species and semi-isolated patches of Saltbush species.</p> <p>Ground visibility was generally good across SU GE, with large areas of exposed ground surface and scalding observed.</p> <p>A range of archaeological material types were identified throughout SU GE, including quartz, and silcrete artefacts and historical bricks, glass and metal nails. Historic features including fragments of bricks and glass (potentially remnants of former structures) were identified within locations of two newly identified Aboriginal heritage sites within the SU. Areas of high bioturbation were noted due to rabbit holes.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; and • Hearth <p>Historic heritage values:</p> <ul style="list-style-type: none"> • Sandstock bricks, metal and glass fragments (possibly remnants of former structures) 	 <p>PHOTOGRAPH 8-18 CHANGE OF GRASS AND VEGETATION WITHIN THE PREVIOUS CREEK LINE OF PALEOCHANNEL ABERCROMBIE CREEK. LOCATED BETWEEN WTG GE05 AND GE06 (ERM, 2023)</p>  <p>PHOTOGRAPH 8-19 GROUND VISIBILITY THROUGHOUT SU GE (ERM, 2023)</p>

Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit HW</p> <p>Landform features: Prior Stream (Palaeochannel Landform) Abercrombie Creek; Telegraph Creek</p> <p>Size: 648 ha Visibility: 30% Exposure: 20%</p>	<p>SU HW corridor was located to north of the Project area. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.5 m in height.</p> <p>SU HW was a flat plain; densely vegetated (grasses and shrubby weeds), with low ground visibility. In central area near WTG GW08 there was a dam with drainage channel running to the east. A large channel with water ran N-S between WTG GW04 and GW5. Three WTG to south (GW17-19) could not be accessed due to the presence of this channel. Photos were taken at the edge of channel. RAPs asked us to note that the area would be heavily disturbed; irrigation channels are present throughout the area. No sites were recorded in SU HW.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • None <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-20 LANDSCAPE OF SU HW NEAR WTG HW07 (ERM, 2023)</p>  <p>PHOTOGRAPH 8-21 IRRIGATION CHANNEL WITHIN WESTERN SECTION OF SU HW (ERM, 2023)</p>

Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit HE</p> <p>Landform features: Prior Stream (Paleochannel Landform), Telegraph Creek</p> <p>Size: 228 ha Visibility: 40% Exposure: 20%</p>	<p>SU HE was in the north of the Project area on the east side of the Cobb Highway. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. One large dam was located between WTG HE04 and HE05 indicating historical ground disturbance within that area. Telegraph Creek and its tributaries crossed through the WTG corridor between WTG HE05 and HE06 and surrounded HE07. Landform features and soils on either side of this Paleochannel were nominated as PADs. Soils across SU HE was red to red-grey in colour, with large red sand scours throughout.</p> <p>Vegetation was generally patchy across SU HE; the majority of groundcover comprised Spear Grass (<i>Austrostipa scabra</i>), Oldmans saltbush and Giant Redburr (<i>Sclerolaena tricuspis</i>).</p> <p>Identified archaeological material included several artefact sites as well as two examples of a hearth feature. Quartz and silcrete flakes were the primary artefact type and raw material identified with two sandstone grinding pieces present.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; • Hearth; and • PAD <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-22 AREA OF PAD ON THE WEST SIDE OF TELEGRAPH CREEK BETWEEN WTGS HE05 AND HE06 (ERM, 2023)</p>  <p>PHOTOGRAPH 8-23 OLDMAN'S SALTBUUSH BEING POINTED OUT WITHIN SU HE BY RAP CODY CASSON (ERM, 2023)</p>

Survey Unit	Description	Identified cultural features	Photograph
<p>Survey Unit IW</p> <p>Landform features: Prior Stream (Paleochannel Landform), Telegraph Creek, Hay Plain</p> <p>Size: 272 ha Visibility: 10% Exposure: 15%</p>	<p>SU IW was located as the most northern WTG corridor within the west side of the Project area. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Sediments throughout SU IW were red to red-grey silty sands.</p> <p>The SU IW corridor was densely vegetated making ground visibility low across most of the SU. Vegetation was predominantly grasses and salt bush species.</p> <p>Two shallow drainage channels associated with Telegraph Creek run N-S through the SU, in the approximate locations of WTG IW11 and WTG IW13. Access tracks were also present throughout the SU.</p> <p>Identified archaeological material included artefacts comprising silcrete and quartz flakes.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-24 VIEW WEST ACROSS SU IW FROM APPROXIMATE LOCATION OF WTG IW16 (ERM, 2023)</p>
<p>Survey Unit IE</p> <p>Landform features: Prior Stream (Palaeochannel Landform), Telegraph Creek</p> <p>Size: 178 ha Visibility: 45% Exposure: 20%</p>	<p>SU IE was located as the most northern WTG corridor within the east side of the Project area. The landscape was predominantly flat, with little discernible topography aside from small rises and gentle undulations measuring no more than approximately 0.2 m in height. Sediments throughout SU IE were red to red-grey silty sands.</p> <p>The SU IE corridor was densely vegetated making ground visibility low across most of the SU. Vegetation was predominantly native grasses and salt bush species.</p> <p>The archaeology of SU IE is characterised by isolated artefacts and an artefact scatter, and a weathered hearth exposed in a sandy scour.</p>	<p>Aboriginal heritage values:</p> <ul style="list-style-type: none"> • Artefact; and • Hearth <p>Historic heritage values:</p> <ul style="list-style-type: none"> • None 	 <p>PHOTOGRAPH 8-25 LANDSCAPE OF SU IE SHOWING DENSE GRASSES IN THE WEST PORTION NEAR WTG IE01 (ERM, 2023)</p>

9. SURVEY RESULTS – ABORIGINAL HERITAGE VALUES

9.1 REGISTERED ABORIGINAL HERITAGE SITES

Heritage NSW provides the AHIMS database which holds information concerning previously recorded Aboriginal sites in NSW. A total of 41 valid sites were identified within the Project area. A further seven sites recorded within the eastern portion of the Project area have been destroyed or partially destroyed. The sites are varied in type, consisting of artefacts, hearths, CMTs, and earth mounds. Many of the registered sites contain multiple site types in one location (e.g., artefact and hearth). None of these sites are located within the Wind Farm footprint (or within a 100 m buffer of the corridors). However, three of these sites were identified within a 100 m buffer of the Solar Farm footprint and were revisited as part of the survey.

The results of the full AHIMS search are summarised in Appendix I and Appendix J, and are illustrated in Figure 9-1.

9.2 NEWLY IDENTIFIED ABORIGINAL SITES

A total of 62 new sites were discovered during the first survey program in April 2023 an additional 46 sites were identified in the secondary survey program in August 2023.

However, following the revision of the Project area boundary, 15 of these sites were no longer within. As such, these sites have not been included in this report.

The sites within the Project area boundary (as shown in this ACHAR) are summarised in Table 9-1 below and are illustrated in Figure 9-1. All these sites have been recorded with the details outlined in Appendix J and registered on AHIMS.

It should be noted that the Solar Farm Project area is encompassed within the Wind Farm Project area. Ten newly recorded sites were present within the Solar Farm Project area and have been named in accordance with the Solar Farm site naming system. The details of these sites are also provided in Appendix J, as they are within the Wind Farm Project area.

No AAR were recorded within the Wind Farm development footprint.

TABLE 9-1 SUMMARY OF NEWLY IDENTIFIED SITES

Site Type	Number
Artefact	57
Artefact, PAD	13
Artefact, Hearth, PAD	9
Artefact, Hearth	9
Hearth	3
Modified Tree	1
PAD	1
TOTAL	93

FIGURE 9-1 ABORIGINAL HERITAGE SITES WITHIN THE PROJECT AREA

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9.3 ABORIGINAL ARCHAEOLOGICAL POTENTIAL

The archaeological potential of an area is determined by several factors including its landform, soil features, and level of disturbance. Certain landforms are conducive to both Aboriginal occupation and the survivability of subsurface deposits. The location of these landforms in proximity to natural resources including water and resources increase the likelihood that these landforms would have been utilised by Aboriginal people in the past.

The Project area is comprised of a landscape which is predominantly flat with small rises generally adjacent to clay pans, ephemeral lakes, and small ponds. Some of these rises are natural dunes formed along palaeochannels or lake lunettes, and others are culturally created earth mounds, or a combination of both. These rises have been identified as suitable to retain archaeological deposits as they were the focus of Aboriginal occupation, providing easy access to the nearby retained water during dry seasons, and to use to stay dry when much of the surrounding area was underwater during wetter seasons.

A total of 30 new areas of PAD were recorded within the Project area, 29 of which were associated with visible archaeological material such as hearths, or artefacts. The remaining PAD was recorded as such due to the presence of dunes or earth mounds with similar characteristics to those with visible archaeological material present.

9.4 DISCUSSION

The distribution of recorded sites is consistent with the predictive model discussed in Section 6, which has been refined to determine the Aboriginal heritage sensitivity mapping discussed below and is illustrated in Figure 9-2:

- Sixty-four sites (artefacts, hearths, PADs, CMT) were in the scalded red earths, red brown earth and sliceous sand associated with the bordering dunes and lunettes of palaeochannels (prior streams) (high sensitivity); and
- Twenty-nine sites (isolated artefacts, hearths) were identified in the red-brown earth or grey-brown cracking clays associated with palaeochannel rangelands, bordering aeolian dunefields (moderate sensitivity).

FIGURE 9-2 ABORIGINAL HERITAGE SENSITIVITY MAPPING

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10. SURVEY RESULTS – HISTORIC HERITAGE VALUES

10.1 REGISTERED HISTORIC HERITAGE SITES

There are no registered historic heritage sites within or in the vicinity of the Project area.

10.2 NEWLY IDENTIFIED HISTORIC HERITAGE SITES

A small number of historic objects were observed during the field surveys. Two new identified Aboriginal heritage sites (PREP SU G 03 and PREP SU G 05) also included some accumulated historic heritage material (glass fragments, nails, and sandstock bricks) (Photograph 10-1). These features may be the remnants of former structures.



PHOTOGRAPH 10-1 HISTORIC BRICKS IN LOCATION OF PREP SU G 03 (ERM, 2023).

10.3 HISTORICAL ARCHAEOLOGICAL POTENTIAL

Review of the potential for Historical Archaeological Resource to be present within the Project area is based on a consideration of current ground conditions and analysis of historic development within the Project area. Built structures noted within the boundaries of the Project area are limited to several tanks, troughs, dams and fence lines.

Gradings of archaeological potential utilised for this assessment is detailed in Table 10-1.

TABLE 10-1 GRADING OF ARCHAEOLOGICAL POTENTIAL

Grading	Justification
Nil	No evidence of historical development or use, or where previous impacts would have removed all archaeological potential
Low	Research indicates little or low intensity historical development, or substantial previous impacts. Expected that deep subsurface archaeological features may survive
Moderate	Known historical development with some evidence of previous impact. Likely that archaeological remains survive with some localised truncation and disturbance
High	Evidence of multiple phases of historical development and structures with minimal or localised twentieth century development impacts. Archaeological remains likely to be largely intact

Due to the deflating nature of the landscape, the scarce and unsubstantial built structures, the long-term use of the Project area for grazing, and the limited historical material observed during survey, the historical archaeological potential of the Project area is considered **Nil-Low**.

11. SIGNIFICANCE ASSESSMENT – ABORIGINAL HERITAGE

11.1 ABORIGINAL CULTURAL HERITAGE SIGNIFICANCE ASSESSMENT FRAMEWORK

Aboriginal heritage sites, objects and places hold value for communities in many ways. The nature of those heritage values is an important consideration when deciding how to manage a heritage site, object or place and balance competing land use options.

Assessment of the Aboriginal cultural heritage significance of the Project area has been completed in accordance with the requirements of the ACHAR Guide (OEH 2011). Assessment has included identification of social, historic, scientific and aesthetic values which are discussed in Section 3.4.4.

Scientific values were graded with a basic ranking of high, moderate, or low. The grading is based on the rarity, representativeness and research (educational) potential for each value:

- High significance is usually attributed to sites, which are so rare or unique that the loss of the site would affect our ability to understand aspects of past Aboriginal use/occupation for an area;
- Moderate significance can be attributed to sites which provide information on an established research question; and
- Low significance is attributed to sites which cannot contribute new information about past Aboriginal use/occupation of an area. This may be due to disturbance of the nature of the site's contents.

11.2 IDENTIFYING CULTURAL VALUES

Cultural heritage values for the Project area were identified through a combination of desktop assessment and consultation undertaken during the preparation of the ACHAR (see Section 3). This information was collected by ERM Heritage Consultants.

The Burra Charter states:

cultural significance is embodied in the place—in its fabric, setting, use, associations and meanings. It may exist in: objects at the place or associated with it; in other places that have some relationship to the place; and in the activities and traditional and customary practices that may occur at the place or that are dependent on the place.

Table 11-1 summarizes the cultural heritage values identified for the Project area and the surrounding region.

TABLE 11-1 CULTURAL HERITAGE VALUES IDENTIFIED FOR THE PROJECT AREA AND SURROUNDS

Cultural heritage value	Description	Distance from Project area	Source
Freshwater	The Murrumbidgee River is currently located approximately 7 km north of the Project area. This river system and the palaeochannels present across the Project area would have provided an important source of fresh water.	Within and surrounding	Pardoe & Martin 2011; ERM, 2023
Cultural Landscapes	The palaeochannel landforms present across the Project area and beyond are generally associated with the Yanco system which formed between 20 -13 ka, a peak time for Aboriginal occupation of the area, however several palaeochannels in the Murrumbidgee have been dated with their development extending as far back as 105 ka and could contain much early evidence. Burials are most often associated with scalded, channelled and depressed plains associated with palaeochannels and they hold great cultural value to the Nari Nari and Berapa Berapa accordingly.	Within and surrounding	Pardoe & Martin 2011
Aboriginal heritage sites	Of value to the Aboriginal community as a tangible connection between the land today and past Aboriginal occupation and use.	Within	AHIMS; ERM, 2023; Hay LALC (per comms, 2023)
Food and raw materials	Pre-colonial contact the local area would offer hunting and gathering opportunities. During the April 2023 field survey, several plant species were identified by the Hay LALC as being native bush tucker and medicinal. Of note were the native Saltbush and Nadoo that were abundant across the Project area. CMTs in the local archaeological record attest to gathering.	Within	Hay LALC (per comms, 2023)
Animal Totems	Landscape is reported to have been associated with bat and owl animal totems. The bat totem is associated with men, and the owl totem is associated with women.	Within	[removed from public display] (per comms, 2023)

11.2.1 SOCIAL OR CULTURAL SIGNIFICANCE

The Consultation Requirements specifies that the social or cultural value of a place must be identified through consultation with Aboriginal people. All Aboriginal sites are considered to have cultural significance to the Aboriginal community as they provide physical evidence of past Aboriginal use and occupation of the area.

11.2.2 HISTORIC SIGNIFICANCE

Historic values refer to the association of the place with aspects of Aboriginal history. Historic values are not necessarily reflected in physical objects, but may be intangible and relate to memories, stories or experiences.

The current assessment has not identified a specific person or event of historic value associated with the Project area.

The Project area has been assessed to demonstrate low historic significance.

11.2.3 SCIENTIFIC SIGNIFICANCE

Scientific (archaeological) value refers to the importance of the landscape, area, place or object because of its rarity, representativeness and the extent to which it may contribute to further understanding and information (Australian ICOMOS 2013b).

In assessing significance consideration should be given the following criteria:

- **Research potential:** does the evidence suggest any potential to contribute to an understanding of the area and/ or region and/or state's natural and cultural history?
- **Representativeness:** how much variability (outside and/or inside the site) exists, what is already conserved, how much connectivity is there?
- **Rarity:** is the subject area important in demonstrating a distinctive way of life, custom, process, land-use, function or design no longer practiced? Is it in danger of being lost or of exceptional interest?
- **Educational potential:** does the site contain teaching sites or sites that may have teaching potential?

A scientific significance assessment of each site type is summarised in Table 11-2.

A discussion of the defining characteristics of the sites assessed to demonstrate Moderate and Unknown scientific significance is provided below.

TABLE 11-2 SCIENTIFIC SIGNIFICANCE ASSESSMENT OF ABORIGINAL SITES PRESENT

Site Type	Research potential	Rarity	Representativeness	Educational potential	Overall
Artefact	Moderate	Moderate	Low	Moderate	Moderate
Hearth	High	Moderate	Moderate	Moderate	Moderate
PAD	Moderate	Unknown	Unknown	Unknown	Unknown
CMT	Moderate	Moderate	Low	Low	Low

11.2.3.1 SITES OF LOW SCIENTIFIC SIGNIFICANCE

Isolated stone artefacts and CMTs within the Project area have been assessed to demonstrate low archaeological significance. Single isolated finds were largely identified in areas which demonstrate clear evidence of water movement or other post depositional processes. Artefacts located in the flat clay landforms are considered to demonstrate low research potential due to their limited connection to the original phase of deposition and are equally not considered to be representative of a specific type of phase of land use.

Trees in general are rare across the Project area, making CMTs rare to this specific area, however they are not uncommon within the region and the two trees recorded in this ACHAR are not considered to exhibit high rarity values and would provide limited research potential.

11.2.3.2 SITES OF MODERATE SCIENTIFIC SIGNIFICANCE

Sites of moderate scientific significance include artefact sites and hearth features.

Most artefact sites recorded within the Project area are artefact scatters. The artefacts recorded are considered to exhibit moderate rarity values; this is due to there being limited lithic resources across the landscape. Discussions with Hay LALC suggests that lithics were possibly imported from the Upper Lachlan River region. Due to the rarity of lithics across the landscape, the site has educational or scientific potential; analysis of the material would provide insight into local occupational use of the landscape. Additionally, the recorded grinding dish (PREP SU F 05) is a rare example of its type and has moderate research potential.

Hearth features have research potential, are relatively rare across the national archaeological record and are representative at the Project area level.

11.2.3.3 SITES OF UNKNOWN SCIENTIFIC SIGNIFICANCE

Area of PAD within the Project area have been assessed to demonstrate unknown scientific significance. These sites would require further investigation through archaeological test excavation to adequately assess their significance.

11.2.4 AESTHETIC SIGNIFICANCE

Aesthetic values refer to the sensory, scenic, architectural and creative aspects of the place. These values may be related to the landscape and are often closely associated with social/cultural values.

While the Project area has some aesthetic values associated with being part of one the flattest landscapes in Australia, it been assessed as having low aesthetic significance due to absence of landmark features within the landscape.

11.2.5 ABORIGINAL HERITAGE STATEMENT OF SIGNIFICANCE

The Project area forms a component of a cultural landscape associated with Aboriginal use of the Riverina Murray Region for several cultural and subsistence-based activities. The sites vary in type and density, but predominantly represent evidence of residential and subsistence areas.

Sites within the Project area have been evaluated as being of low to moderate and unknown scientific significance. Sites with low scientific significance include isolated finds, low density artefact scatters, and CMTs. These sites are likely to represent movement through the landscape rather than continued or intensive occupation. Research potential of these sites is low, as they have a low likelihood of contributing to our understanding of past Aboriginal land use practices.

Sites with moderate scientific significance include hearth features. These sites may represent occupation or activity areas subject to repeated use.

Assessment of social/cultural significance can only be undertaken by the local Aboriginal community. No specific areas of social or cultural significance have been identified; however, it is understood that all Aboriginal heritage sites retain significance for the Aboriginal community and the cultural landscape of the Project area.

12. IMPACT ASSESSMENT

12.1 POTENTIAL IMPACTS

Section 1.2 provides a summary of the elements of the Project. A summary of potential impacts to identified Aboriginal heritage values has been developed based on the proposed development footprint of the Project, as well as the survey corridor (100 m buffer) and are summarised in Table 12-1.

TABLE 12-1 POTENTIAL IMPACTS TO ABORIGINAL CULTURAL HERITAGE SITES ASSOCIATED WITH PROPOSED PROJECT LAYOUT

Aboriginal heritage site	Site Type	Significance	Potential for impact based on development footprint	Potential for impact based on survey corridor (100 m buffer)
East Side of Cobb Highway				
PREP SU C 02	Artefact	Low	-	Moderate – can avoid
PREP SU C 03	Artefact, Hearth, PAD	Moderate	-	Moderate – can avoid
PREP SU C 11	Artefact	Low	-	Moderate – can avoid
PREP SU C 12	Artefact; PAD	Moderate	High – within corridor	-
PREP SU C 13	Artefact; Hearth; PAD	Moderate	-	Moderate – can avoid
PREP SU C 14	Artefact	Low	High – within corridor	-
PREP SU C 15	Artefact	Low	High – within corridor	-
PREP SU D 01	PAD	Unknown	High – within corridor	-
PREP SU D 02	Artefact	Low	High – within corridor	-
PREP SU D 06	Artefact	Low	High – within corridor	-
PREP SU D 07	Artefact	Low	-	Moderate – can avoid
PREP SU D 08	Artefact; PAD	Moderate	High – within corridor	-
PREP SU D 09	Artefact; Hearth	Moderate	-	Moderate – can avoid
PREP SU E 01	Artefact	Low	-	Low – easy to avoid
PREP SU E 02	Artefact	Low	-	Moderate – can avoid
PREP SU E 04	Artefact	Low	-	Moderate – can avoid
PREP SU E 05	Artefact	Low	High – within corridor	-
PREP SU F 01	Artefact, Hearth	Moderate	-	Moderate – can avoid
PREP SU F 02	Artefact	Low	-	Moderate – can avoid
PREP SU F 04	Artefact; PAD	Moderate	-	Moderate – can avoid
PREP SU F 05	Artefact	Moderate	-	Low – easy to avoid
PREP SU G 01	Hearth	Moderate	-	Low – easy to avoid
PREP SU G 02	Artefact	Low	High – within corridor	-

Aboriginal heritage site	Site Type	Significance	Potential for impact based on development footprint	Potential for impact based on survey corridor (100 m buffer)
PREP SU G 03	Artefact	Low	-	Moderate – can avoid
PREP SU G 04	Artefact	Low	High – within corridor	-
PREP SU G 05	Artefact	Low	High – within corridor	-
PREP SU H 01	Artefact	Low	High – within corridor	-
PREP SU H 02	Artefact	Low	-	Moderate – can avoid
PREP SU H 03	Artefact; Hearth	Moderate	High – within corridor	-
PREP SU H 05	Artefact	Low	High – within corridor	-
PREP SU I 01	Artefact	Low	-	Moderate – can avoid
PREP SU I 02	Artefact	Low	-	Moderate – can avoid
PREP SU I 03	Artefact, Hearth	Moderate	-	Moderate – can avoid
PREP SOLAR 01	Artefact (multiple)	Low	-	Low – easy to avoid
PREP SOLAR 02	Artefact (multiple)	Moderate	-	Low – easy to avoid
PREP SOLAR 03	Artefact (multiple), Hearth, PAD	Moderate	-	Low – easy to avoid
PREP SOLAR 04	Artefact (multiple), PAD	Moderate	High – within corridor	-
PREP SOLAR 05	Artefact (isolated)	Low	High – within corridor	-
PREP SOLAR 06	Artefact (multiple)	Moderate	High – within corridor	-
PREP SOLAR 07	Artefact (multiple), PAD	Moderate	High – within corridor	-
PREP SOLAR 08	Artefact	Low	High – within corridor	-
West Side of Cobb Highway				
PREP SU A 01	Artefact; PAD	Moderate	High – within corridor	-
PREP SU A 02	Artefact	Moderate	High – within corridor	-
PREP SU B 01	Artefact; PAD	Low	High – within corridor	-
PREP SU C 01	Hearth	Moderate	-	Moderate – can avoid
PREP SU C 04	Artefact	Low	High – within corridor	-
PREP SU C 05	Artefact	Low	High – within corridor	-

Aboriginal heritage site	Site Type	Significance	Potential for impact based on development footprint	Potential for impact based on survey corridor (100 m buffer)
PREP SU C 06	Artefact	Low	Low – very edge of boundary within corridor	-
PREP SU C 07	Artefact	Low	-	Moderate – can avoid
PREP SU C 08	Artefact; Hearth; PAD	Moderate	High – within corridor	-
PREP SU C 09	Artefact	Low	High – within corridor	-
PREP SU C 10	Artefact	Low	Low – very edge of boundary within corridor	-
PREP SU C 16	Artefact; Hearth; PAD	Moderate	-	Low – easy to avoid
PREP SU D 03	Artefact	Low	High – within corridor	-
PREP SU D 04	Artefact, Hearth; PAD	Moderate	High – within corridor	-
PREP SU D 05	Artefact	Low	High – within corridor	-
PREP SU E 06	Artefact, PAD	Moderate	High – within corridor	-
PREP SU E 07	Artefact, Hearth	Moderate	High – within corridor	-
PREP SU E 08	Artefact	Low	High – within corridor	-
PREP SU E 09	Artefact	Low	High – within corridor	-
PREP SU E 10	Artefact, Hearth	Moderate	-	Moderate – can avoid
PREP SU E 11	Artefact, PAD	Low	High – within corridor	-
PREP SU E 12	Artefact	Low	-	Moderate – can avoid
PREP SU E 13	Artefact	Moderate	-	Low – easy to avoid
PREP SU E 14	Artefact; Hearth; PAD	Moderate	-	Moderate – can avoid
PREP SU E 15	Culturally Modified Tree	Low	-	Low – easy to avoid
PREP SU E 16	Artefact	Low	High – within corridor	-
PREP SU E 17	Artefact	Low	High – within corridor	-
PREP SU F 06	Artefact, Hearth, PAD	Moderate	Low – very edge of boundary within corridor	-
PREP SU F 08	Artefact, PAD	Moderate	High – within corridor	-
PREP SU F 10	Artefact	Low	High – within corridor	-
PREP SU F 11	Artefact, PAD	Moderate	High – within corridor	-
PREP SU F 12	Artefact, Hearth, PAD	Moderate	High – within corridor	-

Aboriginal heritage site	Site Type	Significance	Potential for impact based on development footprint	Potential for impact based on survey corridor (100 m buffer)
PREP SU F 13	Artefact	Moderate	High – within corridor	-
PREP SU F 14	Artefact	Low	High – within corridor	-
PREP SU F 15	Artefact, Hearth	Moderate	High – within corridor	-
PREP SU F 16	Artefact, PAD	Moderate	High – within corridor	-
PREP SU F 17	Hearth	Moderate	High – within corridor	-
PREP SU F 18	Artefact, Hearth	Moderate	High – within corridor	-
PREP SU F 19	Artefact	Low	-	Moderate – can avoid
PREP SU F 20	Artefact	Low	-	Moderate – can avoid
PREP SU F 21	Artefact	Moderate	High – within corridor	-
PREP SU F 22	Artefact	Moderate	High – within corridor	-
PREP SU F 23	Artefact	Moderate	-	Moderate – can avoid
PREP SU F 24	Artefact	Moderate	-	Moderate – can avoid
PREP SU F 25	Artefact, Hearth, PAD	Moderate	-	Low – easy to avoid
PREP SU G 06	Artefact	Low	High – within corridor	-
PREP SU G 07	Artefact, PAD	Moderate	Low – very edge of boundary within corridor	-
PREP SU G 08	Artefact	Low	High – within corridor	-
PREP SU I 04	Artefact	Moderate	-	Moderate – can avoid
PREP SU I 05	Artefact	Low	-	Low – easy to avoid
PREP SOLAR 09	Artefact (isolated)	Low	-	Low – easy to avoid
PREP SOLAR 10	Artefact (multiple)	Low	-	Low – easy to avoid

12.2 ECOLOGICALLY SUSTAINABLE DEVELOPMENT PRINCIPLES

In accordance with the ACHAR Guide, Ecologically Sustainable Development (ESD) principles have also been considered in the preparation of this Heritage Report.

The ESD principles as relevant to Aboriginal and historic cultural heritage when considered in the context of the preparation of the current development footprint of the Project are considered below.

12.2.1 THE PRECAUTIONARY PRINCIPLE

The precautionary principle states that lack of full scientific certainty about the threat of harm should never be used as a reason for not taking measures to prevent harm from occurring. The current assessment has included detailed heritage investigation incorporating review of former studies, in depth field surveys and the identification of areas of heritage constraint which would require further investigation to ensure scientific certainty.

12.2.2 THE PRINCIPLE OF INTERGENERATIONAL EQUITY

The principle of intergenerational equity holds that the present generation should make every effort to ensure the health, diversity and productivity of the environment – which includes cultural heritage – is available for the benefit of future generations.

Heritage values have formed a key assessment criterion in the development of the current development footprint.

The completion of the current detailed assessment at the proposed development footprint stage has resulted in the development of a uniform and detailed understanding of the Project area. This will enable an accurate understanding of potential heritage impacts at a side-wide level and allow for appropriate management of the cumulative impacts to heritage associated with the Project ensuring that appropriate management and mitigation strategies can be developed as part of future development stages and ongoing site management.

12.3 CUMULATIVE IMPACTS

The ACHAR guide identifies that a consideration of the ESD principles should include an understanding of the cumulative impacts of the proposal in relation other identified sites in the region.

‘Cumulative impacts are a result of incremental, sustained and combined effects of human action and natural variations over time and can be both positive and negative. They can be caused by the compounding effects of a single project or multiple projects in an area, and by the accumulation of effects from past, current and future activities as they arise’ (DPIE 2022).

As the Project contains Aboriginal Objects, there are cumulative impacts associated with any land uses which would result in impacts to these elements. This is particularly noteworthy due to the general lack of registered AHIMS sites otherwise registered within the region. It is also acknowledged that continued development within the Riverina Murray Region has the potential to result in a cumulative impact to the cultural values of the local area. However, agreed future changes to the Project design to avoid Aboriginal heritage sites where possible will result in a very minimal contribution to the cumulative impacts across the region.

13. RECOMMENDATIONS AND MANAGEMENT MEASURES

13.1 ABORIGINAL HERITAGE

- A total of 48 previously registered Aboriginal sites are within the Wind Farm Project area, consisting of Artefacts, Hearths, Modified Trees and Earth Mounds. 41 of these sites are valid;
- A total of 93 new sites with similar features to the previously recorded AHIMS sites were identified within the Wind Farm Project area as part of the development of this ACHAR (comprising Artefacts, Hearths, PADs, and Modified Trees); and
- Based on the current development footprint harm to 54 sites has been identified.

13.1.1 ABORIGINAL HERITAGE RECOMMENDATIONS

- Preservation and management of Aboriginal sites and heritage values will form a key objective of development controls for the Project. Consultation between Engie and Hay LALC in August 2023 resulted in agreed future changes to the Project design to avoid impacting Aboriginal sites. A buffer of 200 m will be provided to recorded PADs, and a buffer of 100 m will be provided to recorded hearths. ERM also recommends that a buffer of at least 50 m be provided to recorded CMTs. This would affect the following sites:
 - PREP SU A 01: Artefact, PAD;
 - PREP SU B 01: Artefact, PAD;
 - PREP SU C 01: Hearth;
 - PREP SU C 03: Artefact, Hearth, PAD;
 - PREP SU C 08: Artefact, Hearth, PAD;
 - PREP SU C 12: Artefact, PAD;
 - PREP SU C 13: Artefact, Hearth, PAD;
 - PREP SU C 16: Artefact, Hearth, PAD;
 - PREP SU D 01: PAD;
 - PREP SU D 04: Artefact, Hearth, PAD;
 - PREP SU D 08: Artefact, PAD;
 - PREP SU D 09: Artefact, Hearth;
 - PREP SU E 06: Artefact, PAD;
 - PREP SU E 07: Artefact, Hearth;
 - PREP SU E 10: Artefact, Hearth;
 - PREP SU E 11: Artefact, PAD;
 - PREP SU E 14: Artefact, Hearth, PAD;
 - PREP SU F 01: Artefact, Hearth;
 - PREP SU F 04: Artefact, PAD;
 - PREP SU F 06: Artefact, Hearth, PAD;
 - PREP SU F 08: Artefact, PAD;
 - PREP SU F 11: Artefact, PAD;
 - PREP SU F 12: Artefact, Hearth, PAD;
 - PREP SU F 15: Artefact, Hearth;

- PREP SU F 16: Artefact, PAD;
 - PREP SU F 17: Hearth;
 - PREP SU F 18: Artefact, Hearth;
 - PREP SU F 25: Artefact, Hearth, PAD;
 - PREP SU G 01: Hearth;
 - PREP SU G 07: Artefact, PAD;
 - PREP SU H 03: Artefact, Hearth;
 - PREP SU I 03: Artefact, Hearth;
 - PREP SOLAR 03: Artefact, Hearth;
 - PREP SOLAR 04: Artefact, PAD;
 - PREP SOLAR 07: Artefact, PAD; and
 - PREP SU E 15: CMT.
- An Aboriginal Cultural Heritage Management Plan (ACHMP) should be developed to record and describe the processes and procedures required to be implemented regarding Aboriginal cultural heritage prior and during the construction and operational phases of the Project. This should be developed in partnership with the Traditional Owners and should at a minimum include:
 - Any required archaeological test or salvage excavations for the 54 sites which would be harmed within the current development footprint:
 - PREP SU A 01: Artefact; PAD;
 - PREP SU A 02: Artefact;
 - PREP SU B 01: Artefact; PAD;
 - PREP SU C 04: Artefact;
 - PREP SU C 05: Artefact;
 - PREP SU C 08: Artefact, Hearth, PAD;
 - PREP SU C 09: Artefact;
 - PREP SU C 12: Artefact; PAD;
 - PREP SU C 14: Artefact;
 - PREP SU C 15: Artefact;
 - PREP SU D 01: PAD;
 - PREP SU D 02: Artefact;
 - PREP SU D 03: Artefact;
 - PREP SU D 04: Artefact, PAD; Hearth;
 - PREP SU D 05: Artefact;
 - PREP SU D 06: Artefact;
 - PREP SU D 08: Artefact; PAD;
 - PREP SU E 05: Artefact;
 - PREP SU E 06: Artefact, PAD;
 - PREP SU E 07: Artefact, Hearth;
 - PREP SU E 08: Artefact;
 - PREP SU E 09: Artefact;

- PREP SU E 11: Artefact, PAD;
 - PREP SU E 16: Artefact;
 - PREP SU E 17: Artefact;
 - PREP SU F 08: Artefact, PAD;
 - PREP SU F 10: Artefact;
 - PREP SU F 11: Artefact, PAD;
 - PREP SU F 12: Artefact, Hearth, PAD;
 - PREP SU F 13: Artefact;
 - PREP SU F 14: Artefact;
 - PREP SU F 15: Artefact, Hearth;
 - PREP SU F 16: Artefact, PAD;
 - PREP SU F 17: Hearth;
 - PREP SU F 18: Artefact, Hearth;
 - PREP SU F 21: Artefact;
 - PREP SU F 22: Artefact;
 - PREP SU G 02: Artefact;
 - PREP SU G 04: Artefact;
 - PREP SU G 05: Artefact;
 - PREP SU G 06: Artefact;
 - PREP SU G 08: Artefact;
 - PREP SU H 01: Artefact;
 - PREP SU H 03: Artefact, Hearth;
 - PREP SU H 05: Artefact;
 - PREP SU C 06: Artefact;
 - PREP SU C 10: Artefact;
 - PREP SU F 06: Artefact, Hearth, PAD;
 - PREP SU G 07: Artefact, PAD;
 - PREP SOLAR 04: Artefact, PAD;
 - PREP SOLAR 05: Artefact;
 - PREP SOLAR 06: Artefact;
 - PREP SOLAR 07: Artefact, PAD; and
 - PREP SOLAR 08: Artefact.
- o Hay LALC and Nari Nari Tribal Council, during the consultation process, requested that this test or salvage excavation should be completed under the authorisation of the Minister's Conditions of Approval, to avoid unnecessary impact to sites. This request was supported by ERM, in accordance with *Leading Practice Principles: First Nations and Renewable Energy Projects*, namely Principles 1 and 3, which focus on respectful engagement and the preservation and protection of cultural heritage. Therefore, the final design for the project should be informed by the results of test excavation. Should test excavation determine that sites are significant, micro-siting of project elements should occur to avoid impact to these sites;

- Measures to manage archaeological material that needs to be relocated away from development activities;
- Measures to protect and conserve archaeological material that will not be impacted by development activities;
- The requirements regarding heritage training and inductions for employees and contractors;
- Any requirements regarding monitoring of ground disturbance activities by Traditional Owners;
- The development and provision of cultural awareness training by Traditional Owners;
- An Unexpected Finds Protocol;
- Areas of the earth mounds, burials or PADs which may be subject to harm as part of clearing of the development footprint should be subject to archaeological test excavation and included within the ACHMP;
- The Applicant should liaise between the landholders and the Traditional Owners to develop appropriate stock management strategies to limit the further disturbance and damage to Aboriginal heritage sites; and
- The Applicant should consider the appointment and training of a Traditional Owner liaison/s to coordinate appropriately informed access for staff and contractors to culturally sensitive areas and provide cultural awareness training.

13.2 HISTORIC HERITAGE

- No registered historic heritage items are located within the Project area; and
- Two Aboriginal heritage site (PREP SU G 03 and PREP SU G 05) were identified as also including historic features, namely glass fragments, nails, and sandstock bricks (possibly remnants of former structures).

13.2.1 HISTORIC HERITAGE RECOMMENDATIONS

- The historical archaeological potential of the Project area has been assessed as Nil-Low. However, in the event that relics (defined by the Heritage Act 1977 as 'any deposit, artefact, object or material evidence that relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and is of State or local heritage significance') are unexpectedly recovered during the proposed works, all works should cease immediately, and an Unexpected Finds Protocol should be implemented. The following steps are provided if unexpected heritage items are identified during the proposed works:
 - Where a potential historic heritage item is found during works, all works within the vicinity of the item, or with the potential to impact the item should cease and a temporary exclusion zone established;
 - An appropriately qualified heritage consultant should examine the item to assess its significance and further archaeological potential;
 - Where a relic is found, the NSW Heritage Council should be notified (in accordance with Section 146 of the Heritage Act 1977) and approval will likely be required prior to the continuation of works. Other archaeological deposits should be recorded and assessed for significance and potential salvage by an appropriately qualified heritage consultant; and

- Depending on the nature of the discovery, additional assessment and approval under the Heritage Act 1977 may be required prior to the recommencement of excavation in the affected area.
- Prior to the commencement of works, all contractors should be briefed on the Unexpected Finds Protocol.

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APPENDIX A

CONSULTATION LOG

Consultation Log – The Plains 0667692

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
Early engagement and Pre-formal consultation						
2022	Email and Phone	██████████	Hay LALC	Alyce Haast And Lorien Perchard	ERM	Pre-formal contact was made with the Hay LALC in early 2022. This entailed initial project descriptions and organising a pre-formal survey. Due to varying changing circumstances and severe weather conditions including flooding in the region the survey was not complete. Due to time constraints the pre-formal survey was not complete and the formal consultation process commenced in early January 2023.
18/01/2023	Phone	Lorien	ERM	██████████	-	Lorien received a phone call from ██████████ and discussed project. ██████████ registered interest in the project.
Agency Letters Out						
12/01/2023	Email	-	Hay LALC	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area.
12/01/2023	Email	-	Deniliquin LALC	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area.
12/01/2023	Email	-	Riverina LLS	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area.
12/01/2023	Email	-	Hay Shire Council	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
12/01/2023	Email	-	Edward River Council	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area.
12/01/2023	Email	-	Heritage NSW	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area. Lorien received a list on the 18/01/23 from Heritage NSW which included the names of Registered Aboriginal parties who may wish to be consulted.
12/01/2023	Email	-	NNTT	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area. Lorien received an email response from NNTT Geospatial search with the results for overlapping native title matters for the project area. No overlap was recorded.
12/01/2023	Email	-	NTS	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area.
12/01/2023	Email	-	Officer of the Register	L. Perchard	ERM	Lorien sent out letters to agencies requesting the names of registered Aboriginal Parties for the project area. Lorien received an email letter from Karen Carter at OR stating that no Registered Aboriginal Owners are listed in the project area. However, to please contact the Hay and Deniliquin LALC as they may wish to participate.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
Advert						
25/01/23	Advert		The Riverine Grazier			Advert placed in local paper describing the project and requesting interested parties to respond to Lorien Perchard at ERM by 8 th February.
24/01/23	Advert		Deniliquin Pastoral Times			Advert placed in local paper describing the project and requesting interested parties to respond to Lorien Perchard at ERM by 7 th February.
Invitation to register						
24/01/2023	Email	██████████	Hay Aboriginal Community Working Party	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> Lorien email ██████ on the 06/03/23 a touching base email as no response had been received.
24/01/2023	Email	██████████	Konanggo Aboriginal Cultural Heritage Services	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> No response.
24/01/2023	Email	-	██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> Email bounced back. Letter mailed out. No response.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
24/01/2023	Email	██████████	Miyagan Culture & Heritage	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
24/01/2023	Email and Phone	████	Papping Family Aboriginal Corporation	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
24/01/2023	Email	-	██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
24/01/2023	Email	-	██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
24/01/2023	Email	██████████	Wakool Indigenous Corporation	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
24/01/2023 and 06/03/2023	Email and Phone	████	Bangerang Aboriginal Corporation	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
24/01/2023	Email	-	[REDACTED]	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i>
24/01/2023	Email	[REDACTED]	Yarkuwa Indigenous knowledge Centre	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
24/01/2023	Email	-	[REDACTED]	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
24/01/2023	Email	[REDACTED]	Riverina Murray Regional Alliance	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> Lorien email [REDACTED] on the 06/03/23 a touching base email as no response had been received.
24/01/2023	Email	[REDACTED]	Hay LALC	L. Perchard	ERM	Lorien sent an email on the 24/01/23 an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> Lorien received no response. Lorien sent a touching base email with the project methodology requesting feedback by the 3 rd April and checking for survey participation in early April.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response. Return to sender mail on the 27/01/23
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response. Return to sender mail received.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail. No response.
24/01/2023	Mail		██████████	L. Perchard	ERM	Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for</i>

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
						<p><i>proponents 2010</i> on the 24/01/23 by registered mail.</p> <p>.....</p> <p>No response.</p>
24/01/2023	Mail		██████	L. Perchard	ERM	<p>Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail.</p> <p>.....</p> <p>No response. Return to sender mail received</p>
24/01/2023	Mail		██████	L. Perchard	ERM	<p>Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail.</p> <p>.....</p> <p>No response.</p>
24/01/2023	Mail		██████████	L. Perchard	ERM	<p>Lorien sent an Invitation to Register Interest to participate in an upcoming project, in accordance with Section 4.1.3 of the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> on the 24/01/23 by registered mail.</p> <p>.....</p> <p>No response.</p>
Registration of Interest from advert or letter						
07/03/23	Phone and Email	██████	Pappin Family AC	L. Perchard	ERM	<p>██████ from Pappin Family AC responded to Lorien's email on the 27/01/23 registering to participate in the project.</p> <p>.....</p>

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
						<p>Lorien responded on 30/01/23 acknowledging the registration and letting her know we'd be in touch with the project methodology soon.</p> <p>.....</p> <p>█████ called Lorien on the 07/03/2023 and discussed the survey and how many Raps would be required. Lorien will send through more information once the survey has been finalised.</p>
06/07-03-23	Phone and Email	█████	██████████	L. Perchard	ERM	<p>Lorien sent an email on 06/03/23 to ██████ touching base and asking if she wished to participate as no response had been received.</p> <p>.....</p> <p>Lorien received an email from ██████ on the 06/03/23 registering to participate in the project.</p> <p>.....</p> <p>Lorien responded to ██████ on 07/03/23 acknowledging her registration and sent through the project methodology and asked for availability for the survey in early April.</p>
24/03/23 and 06/03/23	Email	█████	Wakool IC	L. Perchard	ERM	<p>█████ responded on 24/01/23 requesting Lot and DP information.</p> <p>.....</p> <p>Lorien responded on 24/01/23 acknowledging her comments and attaching a table with the Lots and DPs as requested.</p> <p>.....</p> <p>Lorien sent through the project methodology requesting any feedback by the 3rd April and asked for availability for the proposed survey dates in early April.</p>
06/03/23	Email	█████	Banggerang AC	L. Perchard	ERM	<p>Lorien called ██████ and Banggerang AC. Vicki and Lorien discussed the upcoming project and its location. ██████ wishes to be kept informed on further stages of the project and can provide 2 RAPs for the survey.</p> <p>.....</p>

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
						Lorien sent through the project methodology on the 07/03/23 requesting any feedback by the 3 rd April and asked for availability for the proposed survey dates in early April.
06/03/23	Email and Phone	████	██████████	L. Perchard	ERM	<p>Lorien called █████. █████ and Lorien discussed the upcoming project and its location. █████ wishes to be kept informed on further stages of the project and can provide RAPs for the survey</p> <p>.....</p> <p>Lorien sent through the project methodology on the 06/03/23 requesting any feedback by the 3rd April and asked for availability for the proposed survey dates in early April.</p>
27/01/23	Email	██████████	Yarkuwa	L. Perchard	ERM	<p>█████ responded to Lorien on the 27/01/23 registering interest in the project.</p> <p>.....</p> <p>Lorien responded to ██████████ on the 06/03/23 acknowledging the information they had shared and their interest in the southern area of the project.</p> <p>Lorien provided them with the project methodology and requested feedback by the 3rd April. Lorien asked for interest to participate in the survey and hrly quotes.</p>
08/03/23	Phone	-	██████████	L. Perchard	ERM	Lorien Phoned █████ to see if he had received the email with the project methodology.
06/03/2023	Phone	-	Deniliquin LALC	L. Perchard	ERM	Lorien Phoned Deniliquin LALC as no response had been received. █████, Deniliquin CEO, spoke to Lorien and expressed interest about the project and wished to be kept informed of the project moving forward.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
06/03/2023	Phone	-	██████████	L. Perchard	ERM	Lorien Phoned ██████ as no response had been received. ██████ spoke to Lorien and expressed interest about the project and wished to be kept informed of the project moving forward.

Section 4.1.6 Letter

08/03/23	Email		Heritage NSW	Meg Mathison	ERM	Meg sent the Section 4.1.6 letter which included details of the consult advertisement placed in the local newspaper, the initial registration of interest letter and the Section 4.1.6 notification letter.
08/03/23	Email		Hay LALC	Meg Mathison	ERM	Meg sent the Section 4.1.6 letter which included details of the consult advertisement placed in the local newspaper, the initial registration of interest letter and the Section 4.1.6 notification letter.
08/03/23	Email		Deniliquin LALC	Meg Mathison	ERM	Meg sent the Section 4.1.6 letter which included details of the consult advertisement placed in the local newspaper, the initial registration of interest letter and the Section 4.1.6 notification letter.

Comments on Project Methodology

23/03/2023	Phone	██████████	-	Lorien Perchard	ERM	Lorien phoned ██████ and spoke about his availability for the upcoming survey. ██████ will be busy the first week of the survey but might like to participate the second week if he is back in the region.
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Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
23/03/2023	Phone	██████████	Hay LALC	Lorien Perchard	ERM	Lorien spoke to ██████ twice about the upcoming survey dates and rates. He confirmed they could provide 8 RAPS per day. Lorien mentioned that Engie would also like to extend the invite for 4 rangers to participate in the survey.
24/03/2023	Phone	Yarkuwa IKC	Spoke to reception	Lorien Perchard	ERM	Lorien spoke to reception at Yarkuwa IKC about the upcoming survey and requested for ██████████ to call back. Lorien was told the message would be passed on.
24/03/2023	Phone	Pappin Family AC	██████████	Lorien Perchard	ERM	Lorien phoned Pappin Family AC and spoke to ██████ about the upcoming survey. Pappin Family will be available and are able to provide 2 x RAPS per day. Lorien requested the rates and costs to be sent via email.
24/03/2023	Phone	██████████	-	Lorien Perchard	ERM	██████ and Lorien spoke briefly about the project and ██████ interest to participate in the survey.
24/03/2023	Phone	██████	Bangerang AC	Lorien Perchard	ERM	Lorien phoned ██████ from Bangerang AC and left a message with the upcoming survey details.
24/03/2023	Phone	Spoke to reception	Deniliquin LALC	Lorien Perchard	ERM	Lorien spoke to reception at Deniliquin LALC about the upcoming survey and requested for ██████ to call back. Lorien was told the message would be passed on.
24/03/2023	Phone and email	██████████	Wakool IC	Lorien Perchard	ERM	Lorien phoned ██████████ but the line is disconnected. Lorien email ██████████ to see if she had received the previous email and see if Wakool IC wanted to participate in the upcoming survey.
24/03/2023	Phone	██████████	-	Lorien Perchard	ERM	Lorien phoned ██████████. There was no answer and Lorien left a voice message about the upcoming survey.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
Survey information- April						
03/04/23	Phone	██████	PFAC	Lorien Perchard	ERM	Lorien phoned ██████ to discuss survey strategy changes. Message left.
06/04/23	Phone	██████	PFAC	Lorien Perchard	ERM	Lorien called ██████ to discuss project.
11/04/23	Phone	██████	Hay LALC	Lorien Perchard	ERM	Lorien called Hay LALC to discuss survey methodology and artefacts found on site.
12/04/23	Phone	██████ - Yarkuwa admin	Yarkuwa	Lorien Perchard	ERM	Lorien phoned ██████ to update her on the project survey and left a message.
12/04/23	Phone	██████	-	Lorien Perchard	ERM	Lorien spoke to ██████ about the project and future survey.
18/04/2023	Phone	██████	-	Lorien Perchard	ERM	Lorien and ██████ spoke about the project. ██████ sent through some information regarding prices and rates for his participation.
Survey information- August						
05/06/2023	Phone	██████	Pappin Family	Lorien Perchard	ERM	Lorien phoned ██████ to inform them of the new proposed survey dates of 14 th and 15 th August. Lorien emailed ██████ @ Pappin Family updating her on the new survey dates and asking availability. Lorien requested a response by 19 th June
05/06/2023	Phone	██████	-	Lorien Perchard	ERM	Lorien phoned ██████ to inform him of the new proposed survey dates of 14 th and 15 th August and ask for his availability. ██████ texted back to include him on the roster as he is available for the fieldwork dates. Lorien also sent ██████ an email with details of rates and fieldwork scheduling.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
05/06/2023	Email	██████████	-	Lorien Perchard	ERM	Lorien emailed ██████ updating him on the new survey dates and asking availability. Lorien requested a response by 19 th June.
05/06/2023	Email	██████████	Yarkuwa	Lorien Perchard	ERM	Lorien emailed ████████████████████ at Yarkuwa updating them on the new survey dates and asking availability. Lorien requested a response by 19 th June.
05/06/2023	Email	██████	Deniliquin LALC	Lorien Perchard	ERM	Lorien emailed ██████ @DLALC updating her on the new survey dates and asking availability. Lorien requested a response by 19 th June.
05/06/2023	Email	██████ @ BACCH	Bangerang ACCH	Lorien Perchard	ERM	Lorien emailed ██████ updating her on the new survey dates and asking availability. Lorien requested a response by 19 th June. ██████ called on 06/06/23 to discuss the email sent to BACCH and to register availability for the 14/15 th August . They have two RAPs. ██████ said to email details to BACCH and cc him in for the upcoming work.

Comments on Draft Solar Report

04/09/2023	Email	██████████	Pappin Family	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023.
04/09/2023	Email and text	██████	-	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023. ██████ called Lorien to let her know he was available for any future field work if required. He had no comments or changes to recommend for the draft Solar report.

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
04/09/2023	Email	██████████	-	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023.
04/09/2023	Email	██████████	Yarkuwa	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023.
04/09/2023	Email	██████	Deniliquin LALC	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023.
04/09/2023	Email	██████ @ BACCH	Bangerang ACCH	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023.
04/09/2023	Email	██████████	Hay LALC	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023. Undeliverable Outlook email received. File too large for recipient email address. Email sent with One point link.
04/09/2023	Email	██████████	-	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 2 nd October 2023.

Comments on Draft Wind Report

19/10/2023	Email	██████	Pappin Family	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023. Undeliverable Outlook email received. File too large for recipient email address. Email sent with One point link.
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Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
19/10/2023	Email	[REDACTED]	-	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023.
19/10/2023	Email	[REDACTED]	-	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023.
19/10/2023	Email	[REDACTED]	Yarkuwa	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023.
19/10/2023	Email	[REDACTED]	Deniliquin LALC	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023. Undeliverable Outlook email received. File too large for recipient email address. Email sent with One point link.
19/10/2023	Email	[REDACTED] @ BACCH	Bangerang ACCH	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023.
19/10/2023	Email	[REDACTED]	Hay LALC	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023.
19/10/2023	Email	[REDACTED]	-	Lorien Perchard	ERM	Lorien sent DRAFT ACHAR to RAPS for review with a 28day review period, requesting comments back by the 17 th November 2023. Undeliverable Outlook email received. File too large for recipient email address. Email sent with One point link.
03/11/2023	Email	[REDACTED]	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR

Date	Method	Addressee	Organisation	Sender	Sender Organisation	Details
03/11/2023	Email	Yarkuwa	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR
03/11/2023	Email	HayLALC	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR
03/11/2023	Email	██████	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR. ██████ responded he had received the updated version.
03/11/2023	Email	██████████	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR
03/11/2023	Email	██████████	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR
03/11/2023	Email	BACCH	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR
03/11/2023	Email	PFAC	-	Lorien Perchard	ERM	Lorien sent updated Wind farm ACHAR



APPENDIX B

AGENCY NOTIFICATION LETTER

Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 11:09 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_Deniliquin LALC.pdf

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW. From our initial understanding the project area covers land of both the Hay LALC and the Deniliquin LALC.

We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. The client would like to organise a cultural heritage awareness meeting during the projects inception, which would give the Hay LALC and Deniliquin LALC the opportunity to share with us your vast knowledge of cultural values in the area, as well as provide an opportunity to discuss the field investigation and the type of sites we might encounter and how they should be treated.

If you have an queries or would like to know more about the project please feel free to contact me. And if you have a list of names of people who you think should be contacted as part of this project please pass it on to me so I can be sure to include them in the consultation process.

Looking forward to working with you over the coming year.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

ERM

[REDACTED]
[REDACTED]

[REDACTED] | W www.erm.com



Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 11:03 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_Edward River council.pdf

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Kind Regards,

Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ *

ERM

[REDACTED]
[REDACTED]

[REDACTED] | W www.erm.com



Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 10:59 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: Request for Spatial Search of Tribunal Registers_The Plains Energy Park.docx; The Plains Agency letter_NNTT.pdf

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Please also find attached search form requesting a search of the registers for native title claims, native title determinations and Indigenous land use agreements across the identified project area.

Lot number	Plan number
105	721978
45	756321
32	756321
7	756321
12	756321
13	756321
5	756321
6	756321
44	756321
3	134993
2	134993
8	756277
20	756277
10	756277
12	756277
11	756277
18	756277
17	756277
9	756277
14	756277
15	756277
16	756277
13	756277
19	756277
21	756277
44	756737
37	756737
8	756745
19	756745

12	756737
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4	756785
2	756778
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2	126222
2	126223
25	756779
42	756785
22	831180
14	756779
56	756785
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58	756785
6	756779
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32	756779
1	954661
1	1101148
7304	1149704
7303	1149704
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86	756809
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31	756732
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47	756797
7	756732
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Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

ERM



Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 11:02 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_Hay Shire council.pdf

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Kind Regards,

Lorien Perchard
Heritage Consultant

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[REDACTED]
[REDACTED]

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Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 11:09 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_Hay LALC.pdf

Hello [REDACTED], and happy new year. I hope you all had a lovely break and that the flood water has receded.

Last year when we were in communication I was trying to organise a preliminary site visit for The Plains Renewable Energy Park project as an initial familiarisation visit as we had identified that it is likely that the Project Area holds significant Aboriginal cultural and archaeological value. Intention of the site familiarisation visit was to be undertaken as a visual inspection by vehicle across the property with opportunities to stop the vehicle at points of interest to the LALC or archaeologist to help build an understanding of the landscape and any preliminary areas of cultural significance. Sadly due to factors out of all our controls we have not yet been able to get onto site or have the opportunity to meet you, however I'm sure that will all change over the next few weeks and months as we are formally kicking off the consultation process for the project.

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. My colleague Alyce Haast is no longer working for ERM so I will be taking over as Heritage Lead. She did mention before she left that the client would like to organise a cultural heritage awareness meeting, which would give the Hay LALC the opportunity to share with us your vast knowledge of cultural values in the area, as well as provide an opportunity to discuss the field investigation and the type of sites we might encounter and how they will be treated.

Looking forward to working with you over the coming year.

Kind Regards,
Lorien Perchard
Heritage Consultant

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✓ ✓ ✓ ✓ ✗

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[REDACTED]

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Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 11:04 AM
To: [REDACTED]
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_Heritage NSW.pdf

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Kind Regards,

Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

ERM
[REDACTED]
[REDACTED]

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Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 11:11 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_OR.pdf

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Lot number	Plan number
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32	756321
7	756321
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Kind Regards,

Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

ERM



Maggie Cronin

From: Lorien Perchard
Sent: Thursday, 12 January 2023 11:01 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_Riverina LLS.pdf

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[REDACTED]

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APPENDIX C

AGENCY RESPONSES

16 January 2023

By email: [REDACTED]

Lorien Perchard
Project Archaeologist

[REDACTED]
[REDACTED]
[REDACTED] [REDACTED] [REDACTED]

Dear Lorien

Aboriginal Cultural Heritage Assessment – Proposed construction, operation, and maintenance of the Plains Renewable Energy Park located within the boundaries of Hay and Deniliquin Local Aboriginal Land Councils on Mungadal Station approximately 12 km south of Hay (comprising various Lot and DP numbers) NSW: request for list of potential Aboriginal stakeholders

We refer to your email and letter to this Office, dated 12 January 2023, requesting contact information for Aboriginal organisations, stakeholders and/or people who may have cultural knowledge relevant to the proposed construction, operation, and maintenance of the Plains Renewable Energy Park located within the boundaries of Hay and Deniliquin Local Aboriginal Land Councils on Mungadal Station approximately 12 km south of Hay (comprising various Lot and DP numbers) NSW, as part of an Aboriginal Cultural Heritage Assessment (ACHA).

Under Section 170 of the *Aboriginal Land Rights Act 1983* (NSW), the Office of the Registrar is required to maintain the Register of Aboriginal Owners (RAO) for New South Wales. A search of the RAO has shown that there are currently no Registered Aboriginal Owners in the project area.

The proposed development and study area falls within the boundaries of Hay and Deniliquin Local Aboriginal Land Councils. We suggest you contact Hay and Deniliquin Local Aboriginal Land Councils (contact details provided below), as they may wish to participate or contribute.

Yours sincerely

[REDACTED]

Project Officer
Office of the Registrar, Aboriginal Land Rights Act 1983

[REDACTED]
[REDACTED]
[REDACTED] [REDACTED] [REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED] [REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]

Maggie Cronin

From: [REDACTED]
Sent: Thursday, 12 January 2023 5:17 PM
To: Lorien Perchard
Cc: Joanne Woodhouse
Subject: RE: SR23/26 - Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment - SR23/26 [SEC=OFFICIAL]

EXTERNAL MESSAGE

OFFICIAL

Your ref: *The Plains Energy Park 0667692*

Dear Lorien Perchard,

Thank you for your search request, please find your results below.

For future searches, when submitting more than 20 parcels, you can submit a single completed search request form and an Excel spreadsheet with the correct parcel ids that correspond to the jurisdiction selected.

Search Results

The results provided are based on the information you supplied and are derived from a search of the following Tribunal databases:

- Schedule of Native Title Determination Applications
- Register of Native Title Claims
- Native Title Determinations
- Indigenous Land Use Agreements (Registered and notified)

Results for overlapping native title matters in NSW:

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm		
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				No overlap	
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				No overlap	
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95//DP756774	FREEHOLD	5/09/2022	3.8992	NNTT File Number	Name

For more information about the Tribunal's registers or to search the registers yourself and obtain copies of relevant register extracts, please visit our [website](#).

Information on native title claims and freehold land can also be found on the Tribunal's website here: [Native title claims and freehold land](#).

Please note: There may be a delay between a native title determination application being lodged in the Federal Court and its transfer to the Tribunal. As a result, some native title determination applications recently filed with the Federal Court may not appear on the Tribunal's databases.

The search results are based on analysis against external boundaries of applications only. Native title applications commonly contain exclusions clauses which remove areas from within the external boundary. To determine whether the areas described are in fact subject to claim, you need to refer to the "Area covered by claim" section of the relevant Register Extract or Schedule Extract and any maps attached.

Search results and the existence of native title

Please note that the enclosed information from the Register of Native Title Claims and/or the Schedule of Applications is **not** confirmation of the existence of native title in this area. This cannot be confirmed until the Federal Court makes a determination that native title does or does not exist in relation to the area. Such determinations are registered on the National Native Title Register.

The Tribunal accepts no liability for reliance placed on enclosed information

The enclosed information has been provided in good faith. Use of this information is at your sole risk. The National Native Title Tribunal makes no representation, either express or implied, as to the accuracy or suitability of the information enclosed for any particular purpose and accepts no liability for use of the information or reliance placed on it.

If you have any further queries, please do not hesitate to contact us via GeospatialSearch@NNTT.gov.au

Regards,

Geospatial Searches

National Native Title Tribunal | Perth

www.nntt.gov.au

From: Lorien Perchard [REDACTED]
Sent: Thursday, 12 January 2023 8:59 AM
To: Geospatial Search Requests [REDACTED]
Cc: Joanne Woodhouse <Joanne.Woodhouse@erm.com>
Subject: SR23/26 - Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment

Caution: This is an external email. DO NOT click links or open attachments unless you recognise the sender and know the content is safe.

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Please also find attached search form requesting a search of the registers for native title claims, native title determinations and Indigenous land use agreements across the identified project area.

Lot number	Plan number
105	721978
45	756321
32	756321
7	756321
12	756321
13	756321
5	756321
6	756321
44	756321
3	134993
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19	756770
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7	756770
2	756737
4	756737
3	756737
8	756770
6	756737

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ *

ERM

[Redacted]

[Redacted] | W www.erm.com



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Maggie Cronin

From: [REDACTED]
Sent: Wednesday, 18 January 2023 9:59 AM
To: Lorien Perchard
Subject: DPE Aboriginal stakeholder list for The Plains Renewable Energy Park - Wind and Solar Farm.
Attachments: The Plains Agency letter_Heritage NSW.pdf; Aboriginal Stakeholder list request The Plains Renewable Energy Park - Wind and Solar Farm.docx; Aboriginal Stakeholder List- Hay and Edward River Local Government Area - LIST OF ABORIGINAL STAKEHOLDERS FOR THE DEPARTMENT of PLANNING and ENVIRONMENT.docx

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL MESSAGE

Hi Lorien,

Please find attached the DPE Aboriginal stakeholder list for The Plains Renewable Energy Park - Wind and Solar Farm.

regards

regards

[REDACTED] **Aboriginal Senior Assessment Officer**
Environment and Heritage – Heritage NSW
Department of Planning and Environment

[REDACTED]



Heritage NSW Department of Planning and Environment

Please lodge all Applications to Heritagemailbox@environment.nsw.gov.au

[Website](#) [Facebook](#) [Instagram](#) [LinkedIn](#)

The Heritage Management System is live from 31 May. More information is available [here](#)

I acknowledge and respect the traditional custodians and ancestors of the lands I work across.

Heritage NSW and coronavirus (COVID-19)

Heritage NSW has taken steps to protect the safety, health and wellbeing of our staff, communities and customers. Whilst our offices remain open, we have put in place flexible working arrangements for our teams across NSW and continue to adapt our working arrangements as necessary. Face-to-face meetings and field work/site visits with our customers are subject to rules on gatherings and social distancing measures. We thank you for your patience and understanding at this time.

This email is intended for the addressee(s) named and may contain confidential and/or privileged information.

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Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment, Energy and Science.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Maggie Cronin

From: OEH HD Heritage Mailbox [REDACTED]
Sent: Thursday, 12 January 2023 11:05 AM
To: Lorien Perchard
Subject: Automated Response

EXTERNAL MESSAGE

Thank you for contacting Heritage NSW. We will respond to your email as soon as possible.

In the interim, please see the below information regarding some of our common enquiries, which may assist you.

Heritage Act 1977 – s139(4) Exceptions

Heritage NSW no longer accepts s139(4) applications as the new archaeological exceptions process is now live. Information on the new process, including how to self-assess your works may be found here [s139\(4\)Exceptions - Self Assessment](#).

Heritage Management System (HMS) is now live

HMS is a new digital system for lodging Heritage Act applications and searching heritage information. Go to the Heritage NSW website for more information and to access the [Heritage Management System](#)

Applications and Section 170 notifications

If you have submitted an application under the Heritage Act 1977 or the National Parks and Wildlife Act 1974, or a section 170 notification, it will first be reviewed for completeness and then allocated to the appropriate assessment team or officer. An officer will contact you if any additional information is required. The completeness check is generally completed within 7-14 business days.

We aim to process applications or notifications within the timeframes below:

Application/Notification type	Timeframe (Commences once an application or notification is complete)
Planning Proposals Section 140 Permits Section 4.55 Modifications	21 days
Integrated Development Applications	If advertised: 21 days following receipt of submissions, or advice there were no submissions, or If not advertised: 40 days
Section 60 Application (fast track) Section 60 Applications (standard/ major works)	21 days 40 days (or 60 days if advertised)
Section 90 Aboriginal Heritage Impact Permit (AHIP)	60 days

Section 170 notifications – local heritage items	14 days
Section 170 notifications – state heritage/SHR items	40 days
Section 170 registers and heritage asset management strategies	As advised/ negotiated with an agency’s single point of contact

Nominations for listing under the Heritage Act 1977 (State Heritage Register)

A completed nomination form must accompany your application. The application form is available on our website ([Nominate listing on the state heritage register](#)). SHR Nominations are considered by the State Heritage Register Committee who will decide whether the nomination will proceed to the next stage of assessment.

Nominations for Aboriginal Place listings under the National Parks and Wildlife Act 1974

Nominations are allocated to the relevant team within 2 business days. An officer will contact you if any additional information is required. The Aboriginal Place proposal form is available on our website: [Nominating an aboriginal place](#)

Aboriginal Cultural Heritage (ACH) Conservation and Repatriation

Programs supported by Heritage NSW include the ACH Conservation and Repatriation of Aboriginal ancestors and objects. This work is managed by staff located across NSW. Enquiries into these programs are sent to the relevant team within 2 business days. Please send any enquiries to heritagemailbox@environment.nsw.gov.au and one of our staff will respond to you directly. Please advise us of any requests to modify our projects or timeframes to better accommodate your needs.

Please visit our website at [Heritage NSW](#) for further information.

Sincerely,
Customer Concierge Team.

Environment and Heritage.
Department of Planning and Environment



Working days Monday to Friday, 09:00am - 05:00pm



[Website](#) [Facebook](#) [Instagram](#) [LinkedIn](#)

We acknowledge the traditional custodians of the land and pay respects to Elders past, present and emerging.

Please consider the environment before printing this email.

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If you are not the intended recipient, please notify the sender and then delete it immediately.
Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment, Energy and Science.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Maggie Cronin

From: [REDACTED]
Sent: Monday, 16 January 2023 3:21 PM
To: Lorien Perchard
Subject: Reply: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: The Plains Agency letter_OR.pdf; 20230116_AO Search ACHA_ERM_proposed The Plains Renewable Energy Park Project_Hay and Deniliquin LALC.pdf

You don't often get email from karen.carter@oralra.nsw.gov.au. [Learn why this is important](#)

EXTERNAL MESSAGE

OFFICIAL

Good afternoon Lorien

Please find attached the response from the Office of the Registrar, ALRA to your email of 12 January 2023 regarding proposed construction, operation, and maintenance of the Plains Renewable Energy Park located within the boundaries of Hay and Deniliquin Local Aboriginal Land Councils on Mungadal Station approximately 12 km south of Hay (comprising various Lot and DP numbers) NSW, as part of an Aboriginal Cultural Heritage Assessment (ACHA).

Kind regards

[REDACTED]
Project Officer, Aboriginal Owners
Office of the Registrar, Aboriginal Land Rights Act 1983
Premier and Cabinet

[REDACTED] [REDACTED]
www.oralra.nsw.gov.au

[REDACTED]
Working days Monday to Friday, 9:00 am – 5:00 pm



I acknowledge the traditional custodians of the land and pay respects to Elders past and present. I also acknowledge all the Aboriginal and Torres Strait Islander staff working with NSW Government at this time.

The Office of the Registrar stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for Elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to supporting the return of land to Aboriginal people as compensation for past dispossession; and to support self-determination through participation and representation in the land council network.

Please consider the environment before printing this email.

From: Lorien Perchard [REDACTED]
Sent: Thursday, 12 January 2023 12:11 PM
To: Admin Officer <[REDACTED]>
Cc: Joanne Woodhouse [REDACTED]
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment

[CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.]

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

Lot number	Plan number
105	721978
45	756321
32	756321
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44	756321
3	134993
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Kind Regards,

Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ ✗

ERM

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██ W www.erm.com

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OFFICIAL

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Officer of the Register

Via email: [REDACTED]

12 January 2023

Reference: 0667692

Dear Sir/Madam,

Subject: The Plains Renewable Energy Park - Aboriginal Cultural Heritage Assessments

Engie Australia and New Zealand (Engie) (the proponent), is proposing to construct, operate, and maintain The Plains Renewable Energy Park (the Project), which will include both a Wind and Solar Farm and extends across an area of approximately 58,786 hectares (ha). The Project Area is located approximately 12 km south of Hay which is understood to have traditionally been within the lands of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station. The Project Area is within the Hay Shire and Edward River Local Government Area (LGA) (see Figure 1).

The Project will be assessed as by a series of two State Significant Development applications (to assess the Wind Farm and Solar Farm Components respectively) under Part 4, Division 4.7 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act). The Secretary's Environmental Assessment Requirements for the Wind and Solar Projects have not yet been issued; however, it is understood an Aboriginal Cultural Heritage Assessment would be required to support an Environmental Impact Statement (EIS) for each component.

Engie has engaged Environmental Resources Management Australia Pty Ltd (ERM) to complete two Aboriginal Cultural Heritage Assessment Reports (ACHARs). One ACHAR will assess the Wind Farm with a second ACHAR to assess the Solar Farm. Both ACHARs would be prepared in accordance with the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (ACHAR Guide) (DECCW 2011) and the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW) (Consultation Requirements). The assessments are intended to assess the Aboriginal cultural values of the Project Area.

The contact details for the proponent are:

[REDACTED]

The aim of community consultation is to provide an opportunity for Aboriginal people who hold cultural knowledge of the Project Area to assist in the identification of the cultural heritage

significance of the Project Area. Engie understands that it is critical that consultation be undertaken with community members who are connected to the local mobs as well as their elders to ensure appropriate and authentic information is gathered.

Community consultation undertaken as part of the heritage assessment will be used to assist the proponent in the preparation of the cultural heritage assessments which would support the development of the Project EIS's. Consultation would also assist the Department of Planning and Environment (DPE) in their assessment of the EIS's.

ERM is writing to fulfil Stage 1 of the Consultation Requirements - *project notification and identification of stakeholders*. As part of this step, ERM would like to obtain a list of Aboriginal people who may have an interest in this project and hold relevant knowledge about the cultural significance of the Hay and Deniliquin areas.

Relevant stakeholder lists can be returned to Lorien Perchard (Project Archaeologist) at the below details.



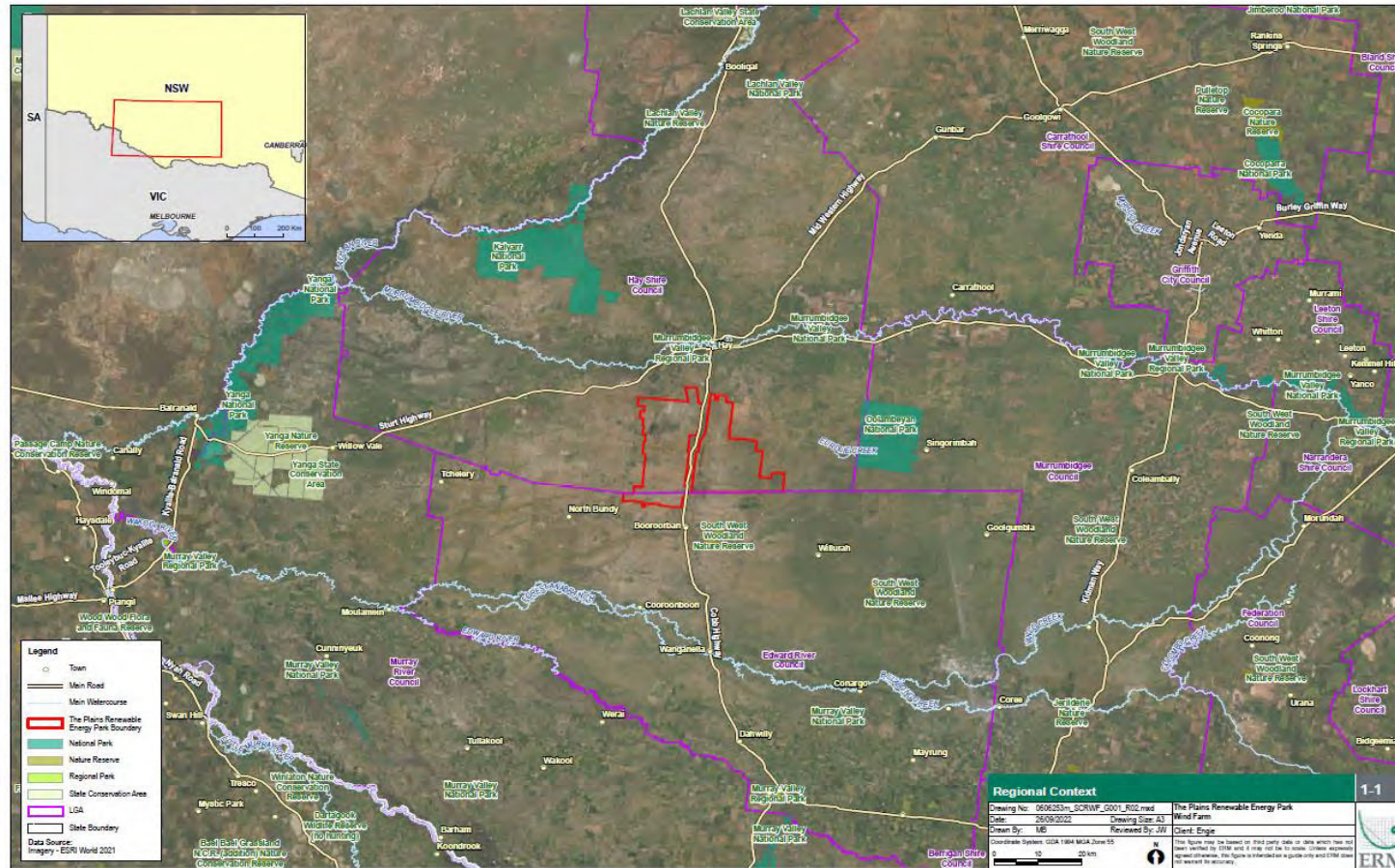
Yours sincerely,

For Environmental Resources Management Australia Pty Ltd

A handwritten signature in black ink, appearing to read 'Lorien Perchard'.

Lorien Perchard
Project Archaeologist

Figure 1: Project Area





APPENDIX D INVITATION TO REGISTER LETTER

[Redacted]

[Redacted]
www.erm.com



Corporation
Address
Email
Phone

25 January 2023

Reference: 0667692

Dear

Subject: The Plains Renewable Energy Park - Aboriginal Cultural Heritage Assessments

Engie Australia and New Zealand (Engie) is proposing to construct, operate, and maintain The Plains Renewable Energy Park (Project). The Project will include both a Wind and Solar Farm and extends across an area of approximately 58,786 hectares (ha). The Project Area is located approximately 12 km south of Hay in lands which are understood to have traditionally been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station. The Project Area is within the Hay Shire and Edward River Local Government Area (LGA) (see Figure 1).

The Project will be assessed as by a series of two State Significant Development applications (to assess the Wind Farm and Solar Farm Components respectively) under Part 4, Division 4.7 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act). The Secretary's Environmental Assessment Requirements for the Wind and Solar Projects have not yet been issued; however, it is understood an Aboriginal Cultural Heritage Assessment would be required to support an Environmental Impact Statement (EIS) for each component.

Engie as the company who is proposing to undertake the Project (the Proponent) has engaged Environmental Resources Management Australia Pty Ltd (ERM) to complete two Aboriginal Cultural Heritage Assessment Reports (ACHARs). One ACHAR will assess the Wind Farm with a second ACHAR to assess the Solar Farm. Both ACHARs would be prepared in accordance with the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (ACHAR Guide) (DECCW 2011) and the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW) (Consultation Requirements).

The assessments are intended to assess the Aboriginal cultural heritage values of the Project Area. ERM on behalf of Engie wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the Hay and Deniliquin area. Engie understands that it is critical that consultation be undertaken with community members who are connected to the local mobs as well as their elders to ensure appropriate and authentic information is gathered. Engie wishes to respect and

adhere to Lore protocols within the local community to ensure that engagement with community and elders is undertaken respectfully and in accordance with cultural protocols as well as the Consultation Requirements.

Community consultation undertaken as part of the heritage assessment will be used to assist the proponent in the preparation of the ACHARs which would support the development of the Project EIS's. Consultation would also assist the Department of Planning and Environment (DPE) in their assessment of the EIS's to ensure that authentic messaging is transferred and adhered to as a part of respectful engagement to Tribal and Clan groups and also most importantly any common law Elders.

The contact details for the representative of Engie, as the company proposing to do the work are:

[Redacted contact details]

REGISTRATION

If you wish to formally register your interest in the process of community consultation, please contact Lorien Perchard (Project Archaeologist) by **8th February 2023** at the below details:

[Redacted registration details]

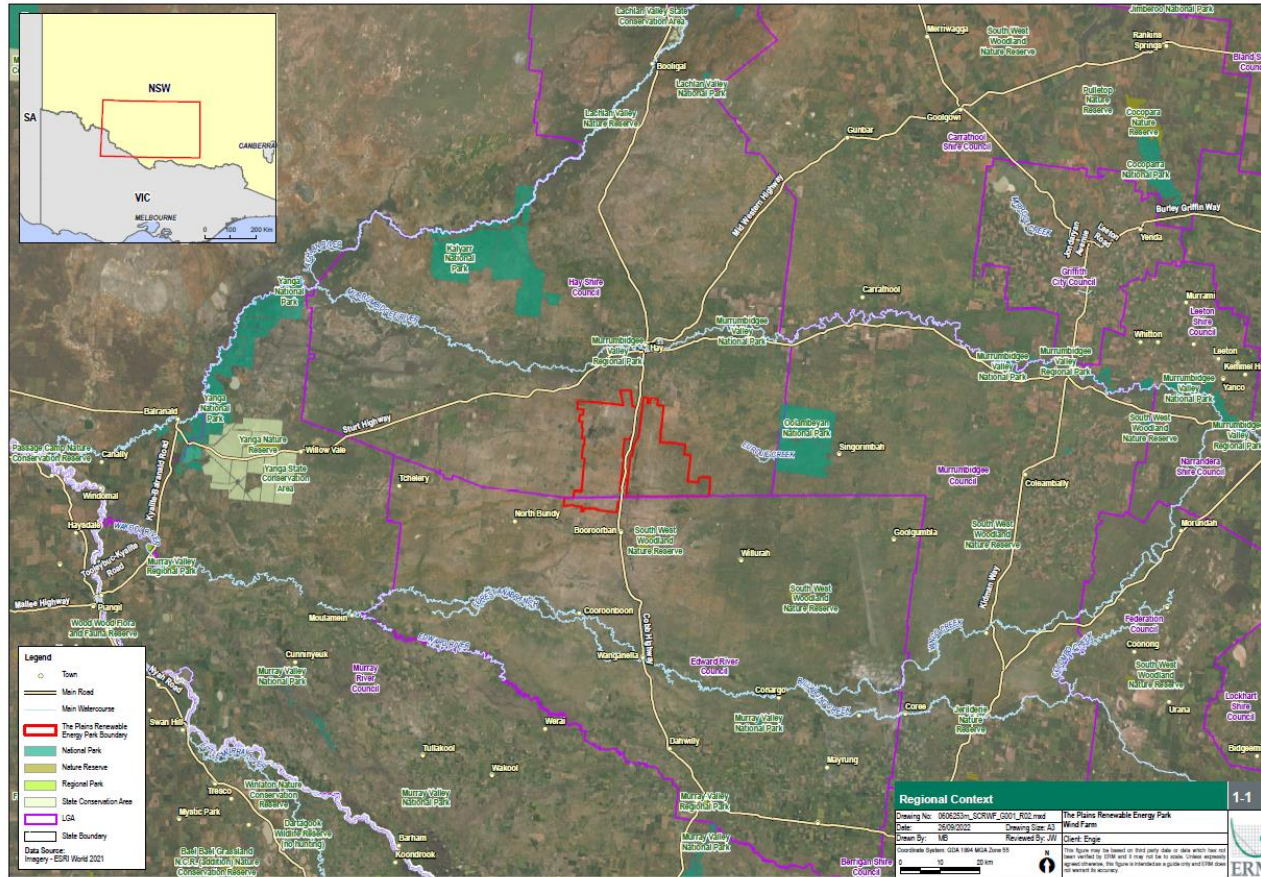
We understand that there are many people in the local area that hold significant connection to culture and this land. Any specific information concerning protection of sacred sites and cultural heritage in the Project Area that you would be willing to share would be greatly appreciated. Any cultural knowledge provided will be treated in confidence and the information will be distributed according to the wishes of the Aboriginal stakeholders.

Please note that the Consultation Requirements require the proponent to provide details of registered Aboriginal parties to the Heritage NSW, the Hay Local Aboriginal Land Council and the Deniliquin Local Aboriginal Land Council. In your response could you please advise if you would like your details to not be provided.

Yours sincerely,

For Environmental Resources Management Australia Pty Ltd
Lorien Perchard - Project Archaeologist

Figure 1: Project Area





APPENDIX E

ADVERTISEMENT

Invitation to Register an Interest

The Plains Renewable Energy Park Aboriginal Cultural Heritage Assessment

Engie Australia and New Zealand (Engie, the proponent), is proposing to construct and operate The Plains Renewable Energy Park which will include a Wind and Solar Farm (the Project), located south of Hay in the Riverina Murray Region of NSW.

The Project will be assessed through two State Significant Development Applications (for the Wind and Solar Farm components respectively).

Environmental Resources Management Australia Pty Ltd (ERM), on behalf of Engie has been engaged to prepare two Aboriginal Cultural Heritage Assessment Reports, to support the two Environmental Impact Statements to assess the proposed construction and operation of a Wind Farm and a Solar Farm.

The proponents contact details are:



The proponent is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the Hay and Deniliquin Area to register an interest in a process of community consultation. The purpose of community consultation is to assist

the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Reports. Consultation will also be utilised to assist the Department of Planning and Environment in their assessment of the Project Environmental Impact Statements.

ERM is seeking expressions of interest from any Aboriginal person who may have cultural knowledge relating to the project area and who may be able to assist.

Interested Aboriginal parties wishing to be consulted for this assessment are invited to register a written expression of their interest by Tuesday 7th February, 2023.

Please respond in writing to:



Please note that the consultation guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW, Hay LALC and the Deniliquin LALC. In your response could you please advise if you would like your details to not be provided.



APPENDIX F

REGISTERED RAP GROUPS

Maggie Cronin

From: Lorien Perchard
Sent: Tuesday, 7 March 2023 7:46 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hi [REDACTED]

It was nice to talk to you yesterday. As I was saying in our conversation the project is located approx. 12km south of within the Hay and the Deniliquin LALCs. Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area. We request that any feedback is provided by 3rd April 2023.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the Easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you.

Cheers, Lorien Perchard

From: Lorien Perchard
Sent: Monday, March 6, 2023 9:14 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Good morning.

I hope this email finds you well. I'm just touching base with you as I didn't receive a response to the below email and the closing date to register your interest to participate has drawn closed. However due to some delays I am due to send out the project methodologies to interested parties today. So, if you are interested in participating in the consultation process for this project, please let me know so I can include you in the registered list.

Kind regards, Lorien Perchard.

From: Lorien Perchard
Sent: Tuesday, January 24, 2023 3:05 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Dear [REDACTED],

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ ✗

ERM

[Redacted]

[Redacted] | W www.erm.com



Maggie Cronin

From: [REDACTED]
Sent: Tuesday, 24 January 2023 2:05 PM
To: Lorien Perchard
Subject: Re: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Follow Up Flag: Follow up
Flag Status: Flagged

You don't often get email from scallywags@pappin.com.au. [Learn why this is important](#)

EXTERNAL MESSAGE

Dear Lorien,

There is no such thing as the 'Nari Nari' people. Can you please send a map or a Lot/DP so that I can accurately ascertain the location of your project?

Kind Regards,

On 24/01/2023 3:00 pm, Lorien Perchard wrote:

Dear [REDACTED],

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

ERM

[REDACTED]
[REDACTED]

[REDACTED] | W www.erm.com

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Maggie Cronin

From: [REDACTED]
Sent: Friday, 27 January 2023 10:34 AM
To: Lorien Perchard
Subject: The Plains Renewable Energy Park

Follow Up Flag: Follow up
Flag Status: Flagged

You don't often get email from [REDACTED]. [Learn why this is important](#)

EXTERNAL MESSAGE

This area lies at the northern boundary between Wamba Wamba/Perrepa Perrepa country and Nari Nari country so our primary interest is in the southern portion

[REDACTED]

[REDACTED]

Manager

Yarkuwa Indigenous Knowledge Centre

Aboriginal Corporation



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

We acknowledge that we live and work on Aboriginal land

Maggie Cronin

From: Lorien Perchard
Sent: Tuesday, 24 January 2023 2:28 PM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: F1-1_0606253m_SCRWF_G001_R02.pdf

Hi [REDACTED]

Sorry about that. I will make a note of your comments for the report.

Please find attached a PDF map of the Project Area. And the table below contains the Lots and DPs within the Project Area boundary. Any other queries please let me know.

Cheers, Lorien

Lot number	Plan number
105	721978
45	756321
32	756321
7	756321
12	756321
13	756321
5	756321
6	756321
44	756321
3	134993
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87	756809

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From: [REDACTED]
Sent: Tuesday, January 24, 2023 3:05 PM
To: Lorien Perchard [REDACTED]
Subject: Re: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

You don't often get email from [REDACTED] [Learn why this is important](#)

EXTERNAL MESSAGE

Dear Lorien,

There is no such thing as the 'Nari Nari' people. Can you please send a map or a Lot/DP so that I can accurately ascertain the location of your project?

Kind Regards,

[Redacted]

On 24/01/2023 3:00 pm, Lorien Perchard wrote:

Dear [Redacted]

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[Redacted]
[Redacted]

[Redacted] | W www.erm.com



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Maggie Cronin

From: Lorien Perchard
Sent: Tuesday, 14 March 2023 7:24 AM
To: [REDACTED]
Subject: RE: Project methodology -The Plains Energy Park- Solar and Wind Farm ACHARs

Hi [REDACTED]

Thanks for that. I'll make a note of your new email contact details.

As for the below information regarding timing and capacity for the field work, will you be able to participate between the 3rd and 14th April? And will you be able to work during the Easter break?

If you could let me know soon that would be great.

Cheers, Lorien

From: [REDACTED]
Sent: Sunday, March 12, 2023 8:34 PM
To: Lorien Perchard [REDACTED]
Subject: Re: Project methodology -The Plains Energy Park- Solar and Wind Farm ACHARs

EXTERNAL MESSAGE

Please note that this is now my email address: [REDACTED]

Regards

From: Lorien Perchard [REDACTED]
Sent: 07 March 2023 08:48
To: [REDACTED]
Subject: Project methodology -The Plains Energy Park- Solar and Wind Farm ACHARs

You don't often get email from [REDACTED]. [Learn why this is important](#)

Hi [REDACTED]

It was nice to talk to you yesterday. As I was saying in our conversation the project is located approx. 12km south of Hay within the Hay and Deniliquin LALC boundaries. Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area. We request that any feedback is provided by 3rd April 2023.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the Easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey,

could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you.

Cheers, Lorien Perchard

From: Lorien Perchard

Sent: Monday, March 6, 2023 9:35 AM

To: [REDACTED]

Subject: FW: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Good morning [REDACTED]

I hope this email finds you well. I'm just touching base with you as I didn't receive a response to the below email and the closing date to register your interest to participate has drawn closed. However due to some delays I am due to send out the project methodologies to interested parties today. So, if you are interested in participating in the consultation process for this project, please let me know so I can include you in the registered list.

Kind regards, Lorien Perchard.

From: Lorien Perchard

Sent: Tuesday, January 24, 2023 3:09 PM

To: [REDACTED]

Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Dear [REDACTED]

I hope you are well. I am reaching out to you again as another heritage project has come up in the region and I thought you might like to be consulted throughout the project.

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ *

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Views expressed in this message are those of the individual sender, and are not necessarily the views of NSW Health or any of its entities.

Maggie Cronin

From: Lorien Perchard
Sent: Monday, 6 March 2023 8:35 AM
To: [REDACTED]
Subject: FW: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: The Plains Registration of Interest letter_John Jackson.pdf

Good morning [REDACTED]

I hope this email finds you well. I'm just touching base with you as I didn't receive a response to the below email and the closing date to register your interest to participate has drawn closed. However due to some delays I am due to send out the project methodologies to interested parties today. So, if you are interested in participating in the consultation process for this project, please let me know so I can include you in the registered list.

Kind regards, Lorien Perchard.

From: Lorien Perchard
Sent: Tuesday, January 24, 2023 3:09 PM
To: [REDACTED]
Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Dear [REDACTED]

I hope you are well. I am reaching out to you again as another heritage project has come up in the region and I thought you might like to be consulted throughout the project.

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.



























































The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard
Heritage Consultant

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	The Plains Registration of Interest letter_ [REDACTED]	 Sender to keep 02 01012 38087 10060 40993 
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	The Plains Registration of Interest letter_ [REDACTED]	 Sender to keep 02 01012 38086 70060 40996 

Maggie Cronin

From: Lorien Perchard
Sent: Tuesday, 24 January 2023 1:59 PM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: The Plains Registration of Interest letter_Neville Whayman.pdf

Dear [REDACTED],

Thanks you for your phone call last Wednesday. It was nice to chat to chat you. The information you passed on to me regarding the bat and owl totems as well as your concerns for their safety has been noted and passed on.

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

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Kind Regards,

Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[REDACTED]

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Maggie Cronin

From: Pappin Family Aboriginal Corporation [REDACTED]
Sent: Friday, 27 January 2023 8:21 AM
To: Lorien Perchard
Subject: Re: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL MESSAGE

G,day Lorien, the Pappin Family Aboriginal Corporation would like to register our interest in the Plains Energy Park Solar and Wind.

thanks and we look forward to hearing from you soon

Our contacts are

[REDACTED]

Regards

[REDACTED]

On 24 Jan 2023 2:56 pm, Lorien Perchard [REDACTED] wrote:

Dear [REDACTED]

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

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Kind Regards,

Lorien Perchard

Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[Redacted]

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Maggie Cronin

From: Microsoft Outlook
To: [REDACTED]
Sent: Tuesday, 24 January 2023 1:47 PM
Subject: Undeliverable: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Delivery has failed to these recipients or groups:

[REDACTED]

Your message couldn't be delivered. The Domain Name System (DNS) reported that the recipient's domain does not exist.

Contact the recipient by some other means (by phone, for example) and ask them to tell their email admin that it appears that their domain isn't properly registered at their domain registrar. Give them the error details shown below. It's likely that the recipient's email admin is the only one who can fix this problem.

For more information and tips to fix this issue see this article:
<https://go.microsoft.com/fwlink/?LinkId=389361>.

Diagnostic information for administrators:

Generating server: AS8PR04MB8404.eurprd04.prod.outlook.com

[REDACTED]

Remote Server returned '550 5.4.310 DNS domain [REDACTED] does not exist [Message=InfoDomainNonexistent] [LastAttemptedServerName=nclwac.com.au] [DB5EUR02FT065.eop-EUR02.prod.protection.outlook.com]'

Original message headers:

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From: Lorien Perchard [REDACTED]

To: [REDACTED]

Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm
ACHARS

Thread-Topic: Invitation to Register -The Plains Energy Park- Solar and Wind
Farm ACHARS

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APPENDIX G SECTION 4.1.6 NOTIFICATION LETTER

Deniliquin LALC

Via email: [Redacted]

8 March 2023

Reference: 0667692



Dear [Redacted],

Subject: Written notification of registrations of interest as required under Heritage NSW Aboriginal Cultural Heritage Consultation requirements for proponents 2010 (Stage 1) – The Plains Renewable Energy Park - Aboriginal Cultural Heritage Project

In accordance with the *Aboriginal Consultation Requirements for Proponents 2010* (Stage 1, s4.1.6), Environmental Resources Management Australia Pty Ltd (ERM) and our client ENGIE Australia and New Zealand (ENGIE) (the proponent), wishes to inform you of the Aboriginal people who have registered an interest in the preparation of an Aboriginal Cultural Heritage Assessment Report (ACHAR) associated with the proposed Plains Renewable Energy Park project located across a 58,786 hectare area located approximately 12 km south of Hay, New South Wales.

PERSON OR ORGANISATION	CONTACT DETAILS
Wakool Indigenous Corporation	[Redacted]
Pappin Family Aboriginal Corporation	[Redacted]
Yarkuwa Indigenous Knowledge Centre	[Redacted]
Hay LALC	[Redacted]
[Redacted] – Individual	[Redacted]
Deniliquin LALC	[Redacted]

[REDACTED] – Individual	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED] – Individual	[REDACTED] [REDACTED] [REDACTED] [REDACTED]
Bangerang Aboriginal Corporation	[REDACTED] [REDACTED] [REDACTED] [REDACTED]

As also required, a copy of the invitation to register letter and public advertisement required for *Aboriginal Consultation Requirements for Proponents 2010* (Stage 1, s4.1.3) is attached for your records. The advertisement was placed in the Riverine Grazier on the 25 January 2023, and in the Deniliquin Pastoral Times on the 24 January 2023.

Yours sincerely,



Lorien Perchard
Heritage Consultant

ATTACHMENT 1: Invitation to register
ATTACHMENT 2: Public Notice

Hay LALC

Via email: [Redacted]



8 March 2023

Reference: 0667692

Dear [Redacted]

Subject: Written notification of registrations of interest as required under Heritage NSW Aboriginal Cultural Heritage Consultation requirements for proponents 2010 (Stage 1) – The Plains Renewable Energy Park - Aboriginal Cultural Heritage Project

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Pappin Family Aboriginal Corporation	[Redacted]
Yarkuwa Indigenous Knowledge Centre	[Redacted]
Hay LALC	[Redacted]
[Redacted] – Individual	[Redacted]
Deniliquin LALC	[Redacted]

	[REDACTED]
[REDACTED] – Individual	[REDACTED]
[REDACTED] – Individual	[REDACTED]
Bangerang Aboriginal Corporation	[REDACTED]

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Yours sincerely,



Lorien Perchard
Heritage Consultant

ATTACHMENT 1: Invitation to register
ATTACHMENT 2: Public Notice

Heritage NSW

Via email: [Redacted]



8 March 2023

Reference: 0667692

Dear Heritage NSW,

Subject: Written notification of registrations of interest as required under Heritage NSW Aboriginal Cultural Heritage Consultation requirements for proponents 2010 (Stage 1) – The Plains Renewable Energy Park - Aboriginal Cultural Heritage Project

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Pappin Family Aboriginal Corporation	[Redacted]
Yarkuwa Indigenous Knowledge Centre	[Redacted]
Hay LALC	[Redacted]
[Redacted] – Individual	[Redacted]

Deniliquin LALC	[REDACTED]
[REDACTED] – Individual	[REDACTED]
[REDACTED] – Individual	[REDACTED]
Bangerang Aboriginal Corporation	[REDACTED]

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Yours sincerely,



Lorien Perchard
Heritage Consultant

ATTACHMENT 1: Invitation to register
ATTACHMENT 2: Public Notice



APPENDIX H

METHODOLOGY



The Plains Energy Park

Aboriginal Cultural Heritage Assessment
and Survey Methodology

3 March 2023

Project No.: 0667692

Document details	
Document title	The Plains Energy Park
Document subtitle	Aboriginal Cultural Heritage Assessment and Survey Methodology
Project No.	0667692
Date	3 March 2023
Version	1.0
Author	Lorien Perchard
Client Name	ENGIE Australia and New Zealand

Document history

Version	Revision	Author	Reviewed by	ERM approval to issue		Comments
				Name	Date	
Draft 1	01	Lorien Perchard	Elspeth Mackenzie	Karie Bradfield	28/02/2023	Draft for client review

Signature Page

3 March 2023

The Plains Energy Park

Aboriginal Cultural Heritage Assessment and Survey Methodology

DRAFT

Lorien Perchard
Heritage Consultant

DRAFT

Joanne Woodhouse
Principal Consultant

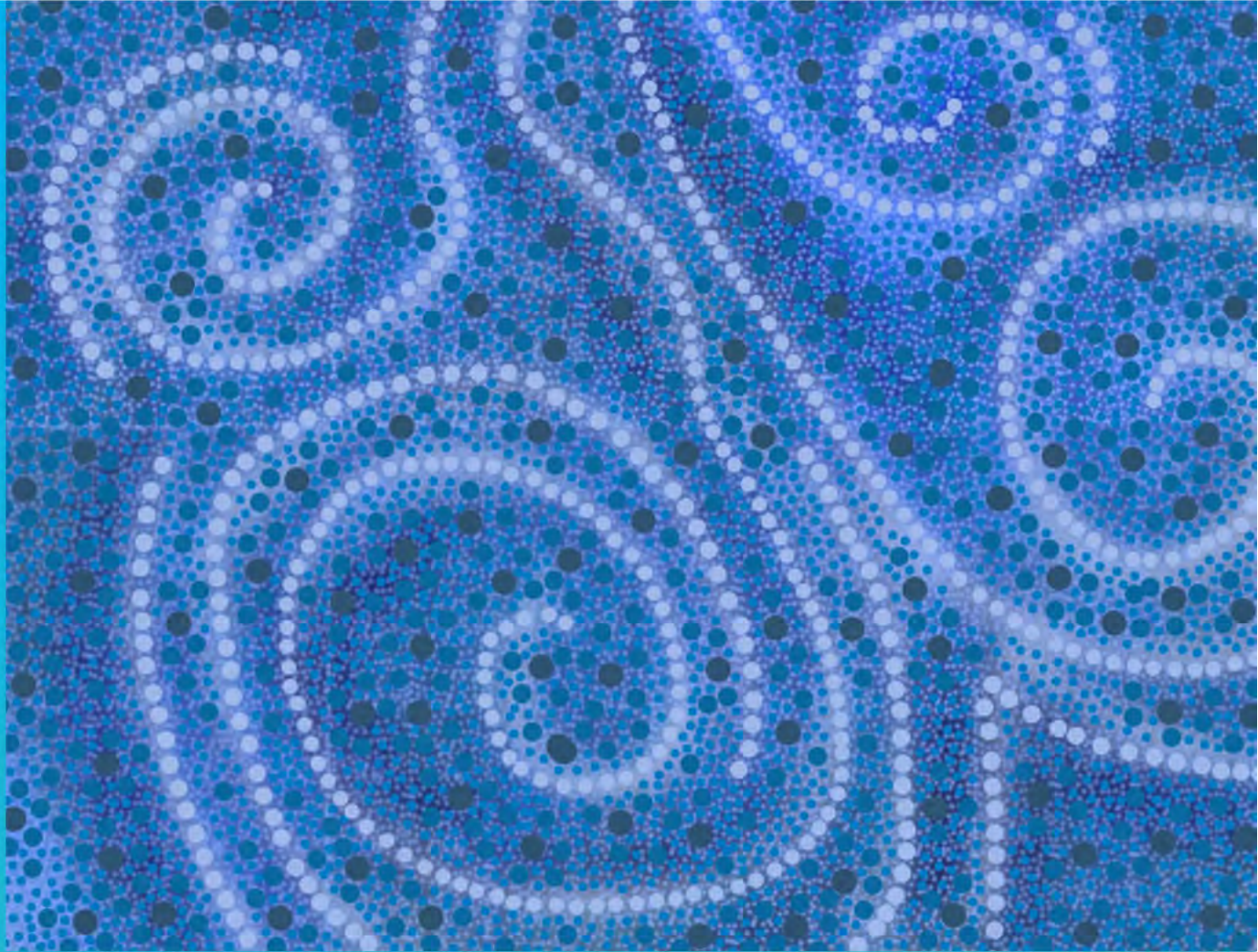
DRAFT

Karie Bradfield
Partner

Environmental Resources Management Australia Pty Ltd

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Acknowledgement of Country

ENGIE Australia and New Zealand acknowledge the Traditional Custodians of all of these lands and waters upon which we work, live and play.

We particularly acknowledge the Wiradjuri, Wemba-Wemba and Nari-Nari peoples who are the Traditional Custodians of the lands proposed for The Plains Renewable Energy Park. We recognise that for many thousands of years, the Traditional Custodians of this Country cared for and lived harmoniously with this place, and we pay our respects to Elders past, present and emerging.

ENGIE is committed to a just, equitable and reconciled Australia and recognise that we all have a role to play in achieving this vision.

The Artwork

One of Hay's local First Nations artists, Emma Johnston of Wiradjuri Country, celebrates a connection to culture, Country and the wind in this piece titled '*Blue Winds*.'

"Blue Winds represents the cool breeze that comes from the skies, the different shades of blue create a cold tone feeling of comfort and peace. Using different sized dots to create dimension and level to this piece. White shows the wind and the blue represents the cold feeling."

– Emma Johnston, artist

CONTENTS

1.	INTRODUCTION	1
1.1	Project Area	1
1.2	Proposed Development	5
1.2.1	Wind Farm	5
1.2.2	Solar Farm	7
2.	HERITAGE BACKGROUND	9
2.1.1	Aboriginal Land Use.....	9
2.1.2	Previous Archaeological Assessments	10
2.1.3	Existing Predictive Models	11
2.1.4	Preliminary Field Assessment – Aboriginal Ancestral Remains	13
2.1.5	AHIMS Search	13
3.	FIELD INVESTIGATION METHODOLOGY	16
3.1	Field Survey for Solar Farm	16
3.2	Field Survey for Wind Farm	17
3.3	Sites containing Human Remains	18
3.4	Site Recording	18
3.5	Archaeological Reporting	18
3.6	Test Excavation	18
3.7	Aboriginal Stakeholder Involvement	18
4.	ACHAR METHODOLOGY	19
4.1	Background research and predictive modelling	19
4.2	Aboriginal Community Consultation.....	19
4.3	Identification and Assessment of Cultural Values	19
4.4	Assessment of Harm	20
4.5	Assessment timeframes.....	20
5.	FEEDBACK	21
	REFERENCES.....	22

List of Tables

Table 1-1	Project Area Lot and DP Details	2
Table 2-1	AHIMS Database Search Details	13
Table 2-2	AHIMS Registered Site Types	14
Table 4.1	Assessment Timeframes	20

List of Figures

Figure 1-1	Project Area	4
Figure 1-2	Proposed Wind Farm Development.....	6
Figure 1-3	Proposed Solar Farm Development.....	8
Figure 2-1	Cultural heritage sensitivity mapping and AHIMS sites	15

Acronyms and Abbreviations

Name	Description
ACHAR	Aboriginal Cultural Heritage Assessment Report
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
Code of Practice	<i>Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW 2010</i>
Consultation Requirements	<i>Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010</i>
DECCW	Department of Energy, Climate Change and Water (former)
Engie	Engie Australia and New Zealand
ERM	Environmental Resources Management Australia Pty Ltd
ha	hectares
km	kilometres
kV	kilovolt
LGA	Local Government Area
m	metres
MW	megawatt
NEM	National Electricity Market
NSW	New South Wales
PAD	Potential Archaeological Deposit
PREP	Plains Renewable Energy Park
RAP	Registered Aboriginal Person/Party

1. INTRODUCTION

Engie Australia and New Zealand (Engie) is proposing to construct, operate, and maintain The Plains Renewable Energy Park (PREP or the Project). The Project will include both a Wind and Solar Farm and extends across an area of approximately 58,786 hectares (ha). The Project Area is located approximately 12 km south of Hay, New South Wales (NSW). Currently the Project Area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station. The Project Area is within the Hay Shire and Edward River Local Government Area (LGA) (see *Figure 1-1*).

The Project will be assessed by two State Significant Development applications (to assess the Wind Farm and Solar Farm Components respectively) under Part 4, Division 4.7 of the NSW *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARS) for the Wind and Solar Projects have not yet been issued; however, it is understood an Aboriginal Cultural Heritage Assessment would be required to support an Environmental Impact Statement for each component.

Engie has engaged Environmental Resources Management Australia Pty Ltd (ERM) to complete two Aboriginal Cultural Heritage Assessment Reports (ACHARs). One ACHAR will assess the Wind Farm with a second ACHAR to assess the Solar Farm. Both ACHARs would be prepared in accordance with the *Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW* (prepared by the former Department of Energy, Climate Change and Water (DECCW) in 2011) and the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010) (Consultation Requirements).

Each ACHAR will be prepared to identify, assess, and develop management recommendations for any identified Aboriginal Cultural Heritage within their respective Project Areas. Preparation of both ACHARs will include Aboriginal community consultation which will be undertaken with the Registered Aboriginal Parties (RAPs) who have expressed interest in the overall Project.

This document provides details of the proposed assessment and survey methodology for both Wind Farm and Solar Farm components of the Project. This document will be provided to all RAPs who have registered interest in the Project for their review and comment. Any comments received will be considered and incorporated into the assessment methodologies where practicable.

1.1 Project Area

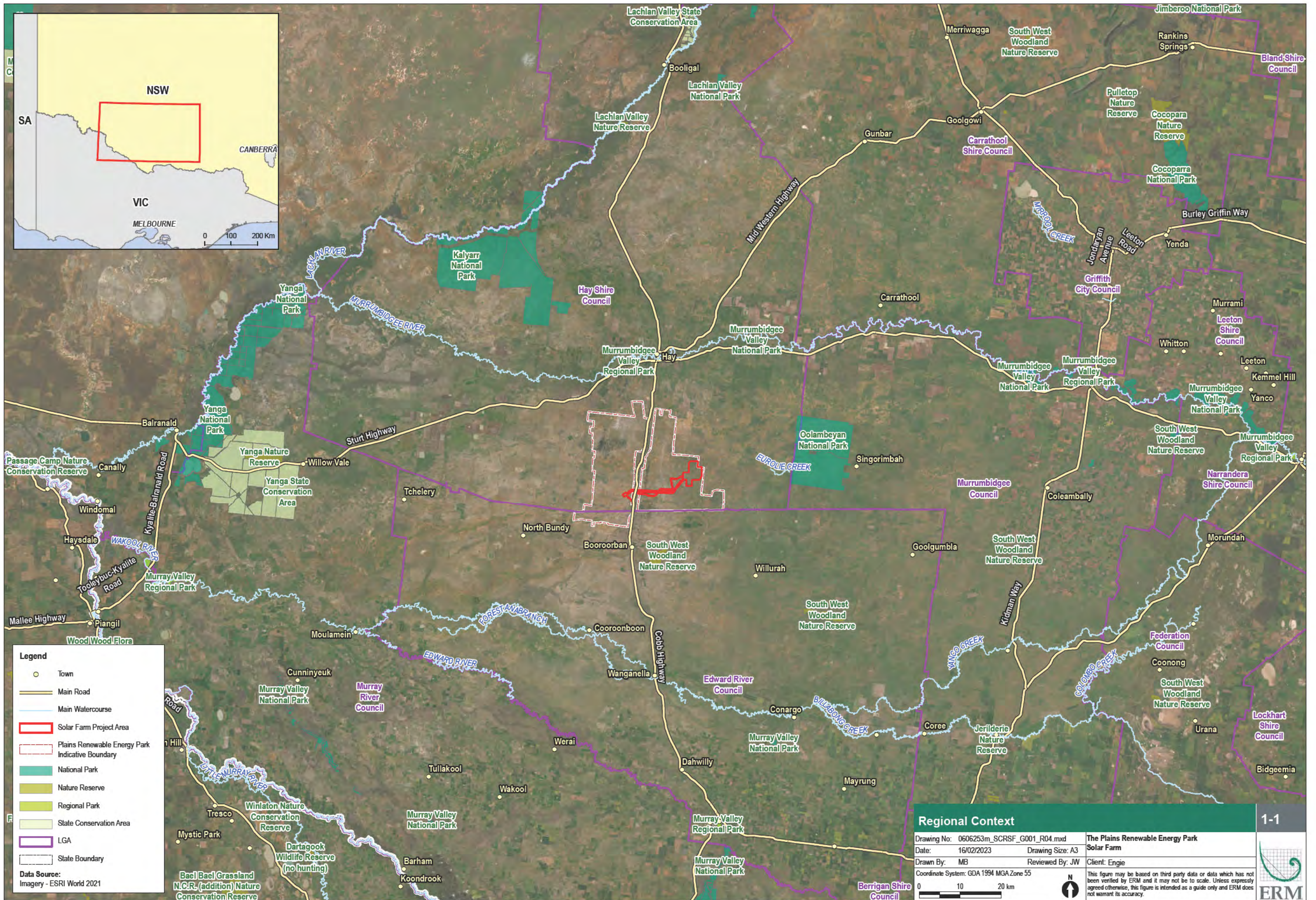
The Project Area is comprised of the boundaries of both the Wind Farm and Solar Farm and is located near the town of Hay, in the Riverina Murray Region of NSW. The Project Area is situated approximately 820 km (by road) west of Sydney, and 12 km south of Hay. The Project Area is within the Hay Shire and Edward River LGA and is split in two by the Cobb Highway, on land that is predominately used for irrigated cropping and grazing pasture. It is situated on Mungadal Station, which is a large-scale sheep breeding property that specialises in the production of Merino Sheep and wool.

The overall Project Area, which encompasses both the Wind Farm and Solar Farm, is approximately 58,786 ha. It covers 700 land parcels which are outlined in *Table 1-1*. The elevation across the Project Area is relatively consistent, ranging from 80 m to 95 m above sea level.

Table 1-1 Project Area Lot and DP Details

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62, 70, 71	756297
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54, 55	756304
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70	756773
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86, 87	756809
21, 22	831180
1	954661
1	1015117
1, 2, 3, 4	1091853
1	1101148
1	1124597
1, 2, 3, 4, 5, 6, 7, 8, 9	1132621
1, 2, 3, 4, 5, 6, 7, 8	1132623
11	1139344
1	1218600



1.2 Proposed Development

The Project includes a proposed wind farm and a proposed solar farm. Subject to the timing of the construction of the Project, the Project may utilise shared infrastructure for both the wind and solar farm including:

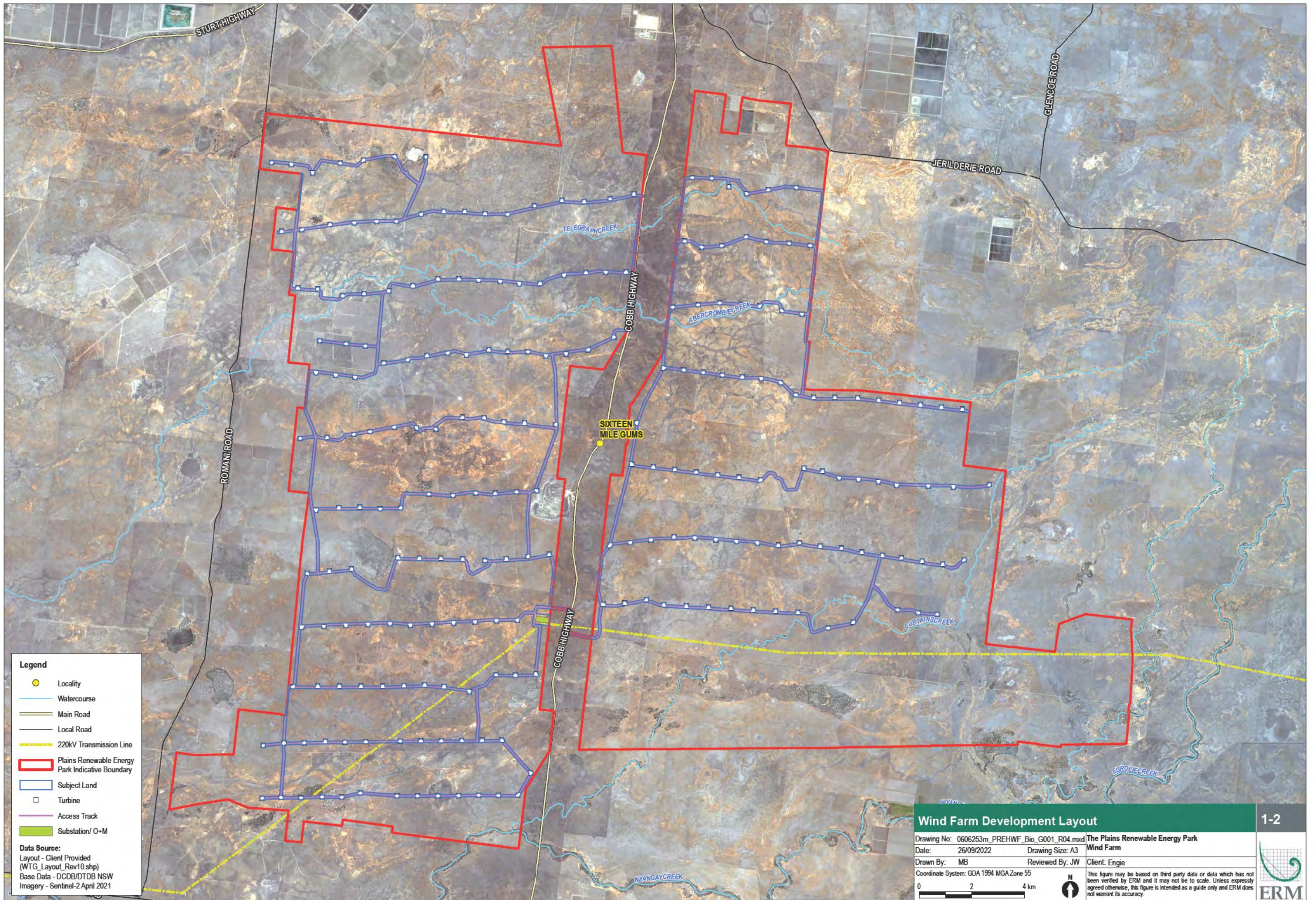
- Internal access roads to connect the solar panels and ancillary infrastructure;
- Operations and Maintenance Building;
- Substations;
- Switchyard; and
- Access to the Project Area off the Cobb Highway to the east and west.

1.2.1 Wind Farm

The PREP Wind Farm is a proposed wind farm that will consist of up to 226 wind turbine generators (*Figure 1-2*). The project has an estimated maximum installed capacity of up to approximately 1,800 megawatt (MW). The wind turbines will have a maximum hub height of 180 m and tip height of up to 280 m.

In addition, the Project will include the following Project infrastructure and associated works:

- One (1) Operations and Maintenance Building;
- One (1) primary 330 kilovolt (kV) substation including a control room and switchyard to facilitate connection to the National Electricity Market (NEM) and includes transformers, voltage controls, storage units and potentially power quality controls;
- At least two (2) 132 kV collector substations including a control room within each, located at selected locations within the wind farm, and with collector groups that will be connected with predominately 33kV underground cabling;
- Up to six (6) permanent Meteorological Masts;
- High-voltage overhead lines connecting collector groups, main substation and connection to the NEM infrastructure;
- A construction compound and temporary construction infrastructure including concrete batching facilities;
- Electrical connections between wind turbines and site substations, with a grid (a tee-connection within the Project Boundary is assumed) that will primarily be underground though may include overhead lines;
- Internal access tracks and upgrades to existing access roads where required;
- Upgrades to existing minor roads along the haulage route to the Project Area;
- Wind turbine hardstands;
- Installing maintenance and environmental managements processes and equipment;
- On-site quarries, security fencing and landscaping;
- Ancillary activities including gravel pits, water sourcing, visual screening (as required); and
- Temporary workers accommodation.



Legend

- Locality
- Watercourse
- Main Road
- Local Road
- 220kV Transmission Line
- Plains Renewable Energy Park Indicative Boundary
- Subject Land
- Turbine
- Access Track
- Substation/ O+M

Data Source:
 Layout - Client Provided (WTG_Layout_Rev10.shp)
 Base Data - DCDB/DTDB NSW
 Imagery - Sentinel-2 April 2021

Wind Farm Development Layout		1-2
Drawing No: 0606253m_PREHWF_Bio_G001_R04.mxd		The Plains Renewable Energy Park
Date: 26/09/2022 Drawing Size: A3		
Drawn By: MB	Reviewed By: JW	Wind Farm
Coordinate System: GDA 1994 MGA Zone 55		Client: Engie
<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">0 2 4 km</div> <div style="text-align: center;"> N ↑ </div> </div>		<p>This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.</p>

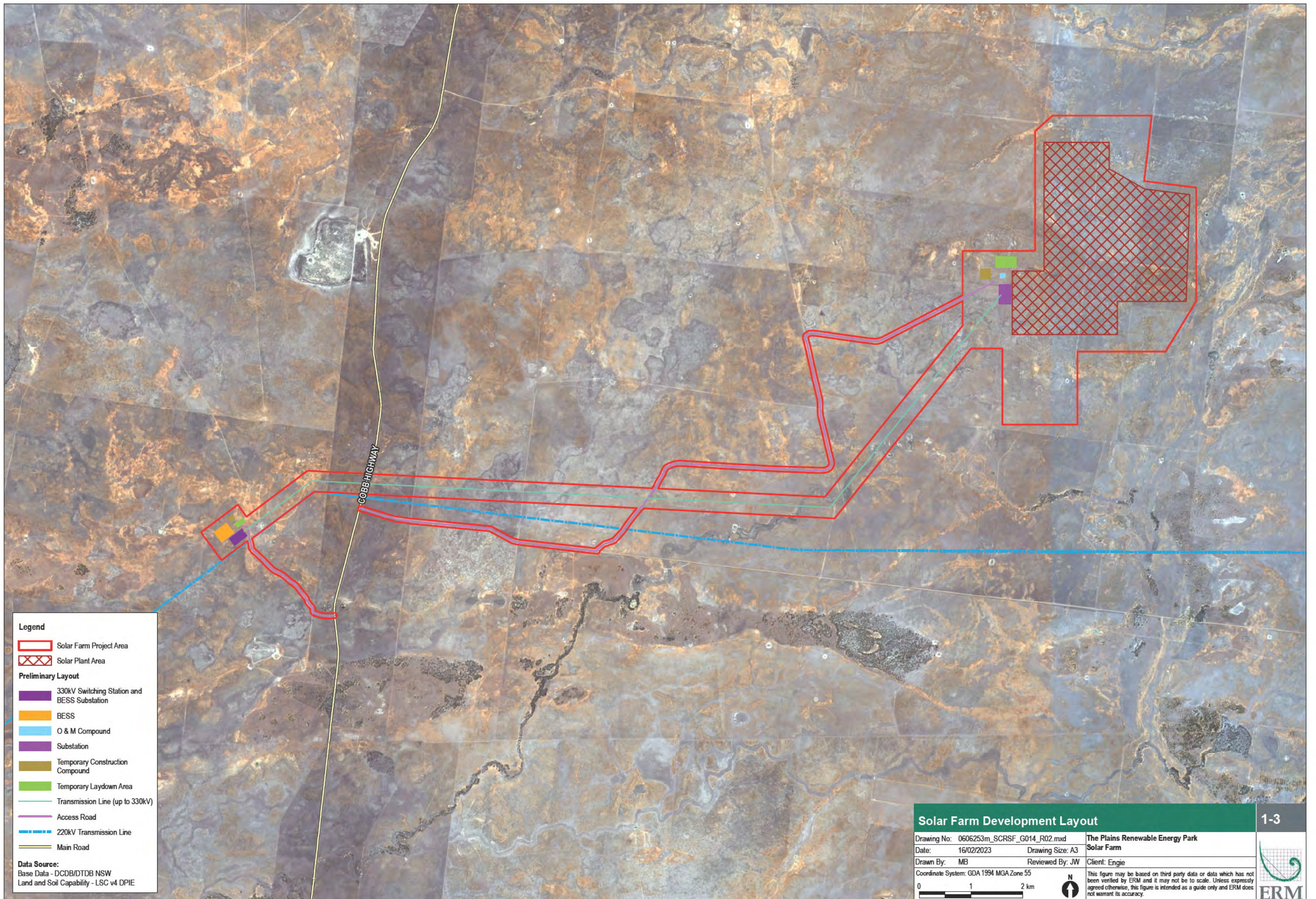
1.2.2 Solar Farm

The PREP Solar Farm is a proposed solar farm consisting of solar photovoltaic panels with a maximum installed capacity of up to 500 MW peak and alternating current capacity of up to 400 MW. The solar arrays will be mounted to steel structures and utilise single axis tracking systems, with relatively little soil disturbance required.

Large-scale battery storage is also proposed to support stabilising the supply of electricity to the NEM. The Project will involve the construction of a Battery Energy Storage System facility with a capacity of up to 400 MW / 1.6 gigawatt hours and would likely utilise lithium-ion technology.

In addition, the Project will include the following Project infrastructure and associated works:

- One (1) primary 330 kV substation including a control room, a switchyard to facilitate connection to the NEM, transformers, voltage controls, storage units and potentially power quality controls;
- At least two (2) 132 kV collector substations including a control room within each, located at selected locations within the Plains Wind Farm, with collector groups that will be connected with predominately 33kV underground cabling;
- Permanent solar resource monitoring station;
- A construction compound and temporary construction infrastructure including concrete batching facilities;
- Electrical connections between the solar arrays to on-site substations which will primarily be underground though may include overhead lines; and
- Internal access tracks and upgrades to existing access roads where required.



Legend

- Solar Farm Project Area
- Solar Plant Area

Preliminary Layout

- 330kV Switching Station and BESS Substation
- BESS
- O & M Compound
- Substation
- Temporary Construction Compound
- Temporary Laydown Area
- Transmission Line (up to 330kV)
- Access Road
- 220kV Transmission Line
- Main Road

Data Source:
 Base Data - DCDB/DTDB NSW
 Land and Soil Capability - LSC v4 DPIE

Solar Farm Development Layout		1-3
Drawing No: 0606253m_SCRSF_G014_R02.mxd	Date: 16/02/2023	Drawing Size: A3
Drawn By: MB	Reviewed By: JW	Client: Engie
Coordinate System: GDA 1994 MGA Zone 55		This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.
		The Plains Renewable Energy Park Solar Farm

2. HERITAGE BACKGROUND

ERM recognises that the primary source of information regarding the Aboriginal cultural values and significance of a place is Aboriginal knowledge holders. The following background has been prepared as a summary of the current understanding of the environmental, historical and archaeological background of the Project Area. This information has been used to develop an understanding of the potential cultural heritage values and sites which may be present which will be utilised in conjunction with RAP feedback to develop the proposed assessment approach.

2.1.1 Aboriginal Land Use

Aboriginal people have occupied the Australian continent for at least 40,000 years, with some reports of 60,000 years and beyond. There have been no dated excavations in the PREP Area, however it is located around 170 km south-east of Lake Mungo, one of the most famous archaeological sites in Australia that has been dated back as far as 40,000 years (Hiscock 2000:21-22).

Several ethnographic accounts of Aboriginal people are available for the region, however as noted by Barber (2015), these ethnographies provide only a glimpse of a way of life which had already been impacted by disease and colonialism. Consequently, it is noted that the ethnographic record cannot provide a detailed and accurate understanding of how Aboriginal groups of the region inhabited the landscape without the influence of European arrival.

Ethnographic histories may however provide some insight into Aboriginal land use and culture at the time of colonisation. For example, Beveridge (1884) describes the communities of the Lower Murray, Murrumbidgee, Lachlan, and Darling areas as family oriented. Daily life often consisted of hunting or gathering, cooking or preparing food, preparing tools and canoes, and telling stories or playing games. Beveridge notes that these groups had substantial commercial networks, with trade suggested to extend up to far north Queensland.

Items that were described as tradable goods were reeds for spears, red ochre, chalk for painting, stone for tools, fibre for nets and cord, opossum cloaks, wood for weapons, etc. Trade for certain items would have been vital for the communities of this area as some resources, such as that used for the stone tool production that took place, were difficult or impossible to source locally (Barber 2015; NGH 2021). Beveridge describes the importance of trade despite the noted difference in languages across the local Aboriginal communities. To this end he identified the importance of particular members of society known as *Ngalla Wattow*. These men were reportedly able to communicate in the languages of the surrounding communities and provided the means to transport goods from community to community. So respected were these men that Beveridge writes that even hostile communities would do no harm to the *Ngalla Wattow* of their rival community (NGH 2020).

The Aboriginal communities themselves were reportedly slightly different from others across Australia, as researchers such as Pardoe (1988) and Martin (2006) argue that the mounds of the plains represent territorial markers. Beveridge reports that they were a patriarchal society led by the elder generations of the community. Utilised food resources were reported to consist primarily of fish but also other animals such as kangaroo, wallaby, emu, and possum. What was eaten was dependant on the time of year and availability in the region. These resources were typically available in abundance for some eight months of the year, where the rivers and creeks of the region would fill with water and often flood the surrounding areas. Beveridge states that at these times there was more than the Aboriginal community could conceivably eat. However, during the remaining four months of the year it was substantially more difficult to forage for food. During the summer, when the river systems are teeming with life, Beveridge notes that the banks were completely filled by the Aboriginal communities who would remain there for weeks or even months; this behaviour extended to the lakes too, which could be as heavily populated during these periods of time (Barber 2015; NGH 2020).

NGH (2021) report that one of the major features of these campsites were the ovens and/or mounds that were left behind. These features often formed central components within an Aboriginal campsite; their true purpose has been debated for some time, but the most accepted theories suggest that they were the areas where food was cooked (ovens) and potentially grown (mounds). Beveridge describes coming across mounds that had dozens of Aboriginal people buried within them, while others believe they were simply used as ovens. Martin (2006) suggests that these mounds were used to grow crops.

The effect of colonial settlement was initially felt through the rampant spread of disease, which had originally spread from the early colonial holdings along the coastline. By the time colonial explorers had reached the interior disease had ravaged the Aboriginal population. Beveridge made note that some mounds discovered in the area contained several and even dozens of burials within. The situation grew even more dire as the true effects of colonialism reached the region and the traditional lands of the communities were possessed by settlers who used them for farming or herding. During this time resistance by Aboriginal people was usually met with retaliatory acts of violence. Those who had survived both disease and frontier violence were forced to adapt to a different world, as their access to their traditional way of life was blocked by colonial expansion. During this period, many had no other choice except to integrate into the new colonial settlements, as a result, the traditional way of life, along with the acts of hunting, gathering, religious life, marriage links, and ceremonial sites were disrupted or destroyed.

2.1.2 Previous Archaeological Assessments

Several archaeological surveys and reports have been conducted within the region and the surrounding landscape for renewable energy projects and other land management programs. These are briefly discussed below.

NGH Environmental (2016) surveyed 800 ha of land for the proposed Sunraysia Solar Farm near Balranald, located approximately 80 km from the current Project Area. The survey recorded three sites comprising two clusters of burnt clay recorded as ovens, and a site complex of seven stone artefacts and three hearths. NGH noted that a lack of culturally modified trees recorded in the assessment area was likely due to historic clearance and the lack of permanent water. NGH interpreted the nature of the archaeological material within this landscape to suggest that Aboriginal use of the landscape was intermittent.

Another survey undertaken in the area was by Anderson (2015) for the Balranald Mineral Sands Project located approximately 110 km from the Project Area. For this assessment, a total of 1,125 ha of the 3,300 ha project area was surveyed with a total of 548 Aboriginal sites identified over the course of the surveys. The overwhelming majority of these sites (89.8%) were composed of a single site element, with the remaining 10.2% having two or more. Isolated and open scatters of stone artefacts were the most common site type throughout the area. Hearths were the second most common with scarred trees, potential archaeological deposits (PAD), and shell following in frequency. The assessment noted areas of high and moderate cultural value were associated with the Box Creek distributary streams as well as relict lake fringes and depressions.

Between 2014 and 2016, OzArk Environmental & Heritage Management Pty Ltd (OzArk, 2017) conducted surveys and assessments of the Abercrombie Water Efficiency Project, which consisted of a 10 m wide corridor along approximately 276 km of pipeline as well as small areas of ancillary water infrastructure. Initial investigation by OzArk identified seven sites, three of which being open campsites. An Aboriginal Heritage Impact Permit (AHIP) application was recommended for two isolated finds (WA-IF1, a grinding stone fragment, and WA-IF3, a flaked piece of silcrete) but was refused based on lack of survey coverage. Re-assessment was undertaken including pedestrian transects and an AHIP application was subsequently approved, allowing for the harm (removal) to the two previously mentioned objects and the management of a further 42 Aboriginal objects or 'no harm' areas.

NGH Environmental (NGH, 2020) completed a Preliminary Cultural Heritage Study on behalf of Acciona for the Keri Keri renewable energy project, which is located approx. 50 km west of the PREP. The desktop report investigated the preliminary issues relating to cultural heritage potential opportunities and constraints relevant to the project area. Several Aboriginal sites were assessed and sensitive landscape mapping identified that further archaeological assessment would be required during the development pathway. Preliminary assessment suggested that Aboriginal use of the landscape was seasonally intermittent. The results of these surveys in the landscape immediately adjacent to and within Keri Keri was considered by NGH to suggest that the region of the Hay Plain was extremely sensitive due to its proximity to major regional (and seasonal) waterways along with other landscape features including ancient palaeochannels and relict lake features including lunettes. Subsequent heritage investigations are currently underway within the Keri Keri project area by ERM.

2.1.3 Existing Predictive Models

The Project Area is located within the Murrumbidgee Province of the Riverina Bioregion. The Murrumbidgee Province is generally comprised of a natural flat landscape largely consisting of clays, silts and sands which historically has been subject to a consistent cycle of annual flooding. Environmental influences on this landscape have varied dramatically over time with post glacial climate changes in the Holocene reducing flood peaks and sediment load. Over time this has resulted in modern watercourses crossing and cutting through earlier palaeochannels. These landscape features provide complexity to an assessment of archaeological sensitivity within the Riverine region that may not be identified through the predictive features of the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (Code of Practice) (DECCW, 2010).

A localised landscape based predictive model was developed by Colin Pardoe for the 'Murrumbidgee Province' as part of the Murrumbidgee Province Aboriginal Cultural Heritage Study (Pardoe & Martin, 2011). This predictive model has focused on the localised landform features and their relationship to site identification and includes assessment of the Project Area. Pardoe's assessments considered the relationship between landform features and the location of archaeological sites making the following conclusions.

- Water – The pattern of site distribution was identified as having its greatest concentration within close proximity to watercourses. Pardoe and Martin (2011) found some variation in site distribution based on water source type was also noted:
 - Major Streams – No site was located more than 12 km from a major river channel with most sites found with a short distance of this channel (75% of sites were within 3.3 km of a major stream);
 - Minor Streams – No site was located more than 12 km from a minor stream (75% were within 2.2 km);
 - Lakes – More than 82% of sites are found within 8 km of a lake; and
 - Swamps – No obvious pattern of distribution was identified which was attributed to variations in the way swamps are described in official mapping data.
- Landforms – Plains made up 93% of the Province, and as such minor variations in landform were noted to be significant as an impetus to the flow of water and location of resources. While sites were identified across most landforms patterns; channelled plain and confined trace landforms were identified as containing a disproportionate number of sites. These landforms were most often associated with the modern active floodplain. Comparatively, burials were most often associated with scalded, channelled and depressed plains associated with paleo environments; and
- Soils – Soil type was noted for its association with water resources and vegetation communities. Based on this association, particular soil types were identified to be associated more closely with site features (burials, hearths, mounds etc) rather than overall site distribution.

Additional large-scale reviews of archaeological site types was completed by Martin in her review of the Hay Plain (Martin, 2007 and Martin, 2010). Martin noted a number of patterns in site distribution related to environmental features. In particular Martin noted that:

- The narrow floodplains or confined traces of the Murrumbidgee and Lachlan, the Lowbidgee distributary system, the Gum Creek palaeochannel, and the Abercrombie Creek system in the Hay Plain have the highest density of sites. Large open water lakes also have a high density of sites;
- Sites are widely spread over different geomorphic categories across the Hay Plain with certain site types most likely to be identified in specific soil types. Confined traces (including the Murrumbidgee River), plains with channels, plain with depressions and channelled plains contained a higher density of sites. Localised landforms included lunettes and lakes were also identified to have a higher than average site density;
- Mounds were identified to be located to particular parts of the Hay Plain and not directly related to geomorphology. Mounds were noted however to be particularly dense along confined traces, the Lowbidgee and Hay Plain Southeast;
- Middens were identified to be largely located along the confined traces of the major rivers and on large water lakes and lunettes;
- Open sites were more commonly found away from riverine grey cracking clays;
- Burials appeared to cluster in the western portion of the Hay Plain in similar locations to mounds. These sites were not identified to be connected to geomorphology;
- Artefact sites and ground ovens were recorded to have been spread widely across the Hay Plain; and
- All archaeological site types are considered likely to occur on slightly raised sandier paleochannel features.

Martin noted that on a wider scale the gently west sloped topography of the Hay Plain was identified to have an influence on the overall presence of sites. Martin suggested this may have been related to earlier water retention environments. Prior to modern water control systems it was noted that the western half of the Hay Plain would have acted as a sump which collected seasonal floodwater and excess rainfall and would have provided appropriate resources for the growth of a number of plant and animal resources. Mound sites in the area surrounding Gum Creek and the Abercrombie Creek System were noted to be focused on paleochannel features and around ephemeral lakes and swamps (Martin, 2007, p. 199).

The vast majority of the Project Area is comprised of landform types which were identified by Pardoe and Martin as having the potential to contain Aboriginal sites. Sensitivity mapping focused on delineating sensitivity into zones based on types of sites which would be expected in each landscape. Areas associated with scalded plains and paleo environments were assessed to contain high archaeological sensitivity associated with their potential to contain burials and intact deposits, while depression plains and otherwise clay based deposits were considered to demonstrate moderate sensitivity. Delineation of soil landscapes was based off data available from the Reconnaissance Soil Landscape of the Riverine Plains (Department of Natural Resources, 2004) which was subsequently adjusted based on visual clues available from aerial imagery.

Preliminary cultural heritage sensitivity mapping is provided in *Figure 2-1*. Further assessment is required to identify additional environmental or landscape features (including palaeochannels) which may also be archaeologically sensitive, as well as historic land uses which may have disturbed or otherwise modified the archaeological sensitivity of an area. Detailed environmental modelling and ground-truthing will be required to adequately categorise the archaeological and cultural sensitivity of the PREP.

In addition to the large number of tangible cultural heritage remains identified across the Murrumbidgee Province, Pardoe and Martin also noted that intangible ceremonial, dreaming and story sites were common through the region. These were often associated with landscape features such as waterholes, hills, trees or other minor features.

2.1.4 Preliminary Field Assessment – Aboriginal Ancestral Remains

Preliminary biodiversity assessment undertaken by ERM in 2022 for the PREP has confirmed the sensitivity of the landscape through the identification of culturally modified trees, hearth sites, artefacts, earth mounds and archaeologically sensitive ‘red country’ which equates to the likely presence of Aboriginal ancestral remains.

These sites will be formally visited by the ERM archaeological team and the RAP team once the field investigation begins with long-term management of these sites to be subject to comprehensive consultation as part of the ACHAR assessments.

2.1.5 AHIMS Search

The Aboriginal Heritage Information Management System (AHIMS) database provides information concerning previously recorded Aboriginal sites in NSW. Two extensive searches of the AHIMS database were conducted on 10 August 2021 to encapsulate the Project Area. Up to date search results were downloaded on the 13 September 2022. The searches were conducted utilising the parameters provided in *Table 2-1*.

Table 2-1 AHIMS Database Search Details

<u>Parameters</u>	<u>Search 1</u>	<u>Search 2</u>
Client Service ID	612680	612684
Datum	GDA Zone 55	GDA Zone 55
Easting	279729.0 - 307594.0	284924.0 - 318182.0
Northing	6155144.0 - 6168579.0	6140851.0 - 6155132.0
Buffer	0 m	0m
Number Sites ¹	101	42

A total of 143 sites were identified within or in close proximity to the Project Area. A total of 35 sites were located within the Project Area boundary. Sites within the Project Area included Artefact, Hearth and Earth Mound features. While only one site is currently registered within the Solar Farm boundary, the remaining 34 sites recorded within the Wind farm boundary contain multiple site types in one location (e.g. Artefact and Hearth). While no sites within the Project Area contain burials, the presence of earth mounds suggest that burials may also be associated with this landscape. The presence of a variety of site types across the surrounding landscapes indicate that a variety of complex land uses may be associated within the landscape

The results of the full AHIMS search are summarised in *Table 2-2*.

¹ Number of sites registered following data download on 31 January 2022.

Table 2-2 AHIMS Registered Site Types

Site Type	Total Number of Site types across Search parameters	Number of Sites within Wind Farm Area	Number of Sites within Solar Farm Area
Artefact	98	16	1
Artefact, Burial, Hearth, PAD	1	0	0
Artefact, Hearth	19	6	0
Earth Mound	2	2	0
Hearth	12	2	0
Modified Tree (Carved or Scarred)	10	8	0
Modified Tree (Carved of Scarred), Artefact	1	0	0
Total	143	34	1

Based on the results of the preliminary assessment and the AHIMS search results, it is considered likely that there are significant areas within the Project Area which contain evidence of past Aboriginal land use. Predictive modelling prepared at this stage of the process can assist in determining sensitive landscapes; however, it is acknowledged that detailed investigation and site survey assessment will be required to inform the next phase of project planning and design.

3. FIELD INVESTIGATION METHODOLOGY

The following field investigation methodology has been developed to further assess the significance of the Wind Farm and Solar Farm Project Areas. Field investigation is proposed to be undertaken over a 15-day period. This will be broken down into an initial 10-day site survey in approx. mid-April 2023, with an extra 5-day survey to follow depending on site survey results and design changes.

Due to the differing layout and infrastructure proposed for the Solar Farm and Wind Farm, two separate field survey strategies have been identified as necessary to capture as much information as possible over the landscape and adequately assess the potential harm to Aboriginal objects associated with each individual Project Area.

3.1 Field Survey for Solar Farm

An archaeological survey of the Solar Farm will aim to identify all Aboriginal sites and areas of cultural significance present within the proposed impact footprint of the Solar Farm. Survey would include the identification of any areas of PAD and would ground truth the locations of any previously registered Aboriginal sites within the impact footprint.

ERM proposes to undertake the survey with the following conditions:

- A survey would be undertaken across the full extent of the Solar Farm impact footprint;
- The Solar Farm footprint would be delineated into landforms, with survey including investigation of each individual landform across the Solar Farm impact footprint. Survey would also include investigation of varying soil landscapes, varying distances from watercourses and areas of intact vegetation where they overlap with the impact footprint;
- The survey will consist of all participants traversing the selected areas of the impact footprint using transects. Transects will include a sample of each individual landform across the Project Area. Transect spacing will vary across the survey area, between 10 to 50m apart, based on the level of archaeological potential identified during predictive modelling (see *Figure 2-1*), level of ground surface visibility, and feedback provided by the RAPs. Areas of high archaeological potential and/or higher levels of ground surface visibility would be subject to a more detailed ground survey;
- A site meeting will be held with the RAPs at the commencement of the field survey to refine the proposed survey sampling strategy, to discuss sensitive landforms or locations, proposed targeted survey areas, and any relevant cultural information;
- The survey will be undertaken on foot, with two teams comprised of one archaeologist and up to four RAPs per team. Survey will be limited to areas that can be traversed on foot;
- Identified objects will be recorded insitu and will remain onsite; and
- Any cultural heritage information for the study area shared by the RAPs will be recorded during the field survey. Any cultural knowledge provided will be treated in confidence and the information will be distributed according to the wishes of the provider.

3.2 Field Survey for Wind Farm

The archaeological survey of the Wind Farm will aim to identify all Aboriginal sites and areas of cultural significance present within the proposed impact footprint of the Wind Farm and consequently would be comprised of a linear survey focused on the proposed wind turbine locations, proposed access tracks as well as associated infrastructure. Due to the sensitive archaeological landscape and existing AHIMS sites registered in the Project Area it is anticipated that many new sites will be discovered and recorded during the field investigation. Therefore it is proposed that survey will target 100% of the high potential areas and landscapes, and 50% of the remainder of the Project Area.

Survey would include the identification of any areas of PAD and would ground truth the locations of any previously registered Aboriginal sites within the impact footprint of the Wind Farm.

The survey would be focused on the proposed impact footprint with all individual landforms within the impact footprint subject to investigation. Due to the limited variation in landform across each Project Area, survey would also ensure investigation of representative samples of varying soil landscapes and land parcel (as delineated by the boundaries of the current grazing paddocks within the overarching Project Area).

The field survey for the Wind Farm would be completed utilising the following method:

- A sample survey would be undertaken across the full extent of Wind Farm impact footprint;
- The Wind Farm footprint would be delineated into landforms with survey including investigation of each individual landform across the Wind Farm impact footprint; Survey would also include investigation of varying soil landscapes, varying distances from watercourses and areas of intact vegetation where these elements overlap with proposed areas of impact;
- Survey would also include inspection of previously registered AHIMS sites. Survey of these areas would be undertaken to ensure that the site extent of these sites are adequately captured by the assessment;
- The survey will consist of all participants traversing the Project Area using transects. Transect spacing will vary across the survey area, between 10 to 50m apart, based on the level of archaeological potential identified during predictive modelling (see *Figure 2-1*), level of ground surface visibility, and feedback provided by the RAPs. Areas of high archaeological potential and/or higher levels of ground surface visibility would be subject to a more detailed ground survey;
- A site meeting will be held with the RAPs at the commencement of the field survey to refine the proposed survey sampling strategy, to discuss sensitive landforms or locations, proposed targeted survey areas, and any relevant cultural information;
- The survey will be undertaken on foot, with two teams comprised of one archaeologist and up to four RAPs per team. Survey will be limited to areas that can be traversed on foot;
- Identified objects will be recorded insitu and will remain onsite; and
- Any cultural heritage information for the study area shared by the RAPs will be recorded during the field survey. Any cultural knowledge provided will be treated in confidence and the information will be distributed according to the wishes of the provider.

3.3 Sites containing Human Remains

Where potential ancestral remains are identified they would be subject to a non-invasive recording via photograph and GPS. The extent of the potential remains and an appropriate buffer zone to avoid potential impact to the remains during the remainder of the survey program would be discussed with the RAPs and recorded. Identified potential ancestral remains would not be touched during the recording process. Preliminary discussions with the RAPs would also be held to discuss potential mechanisms to manage the remains during construction and operational phases of the project. Identified buffer zones would be provided to the proponent to be incorporated into detailed design considerations.

As part of the preliminary recording, recommendations for long term management of the remains would also be sought from the RAPs.

At the end of the survey program, all potential ancestral remains would be reported to NSW Police and subject to inspection by a forensic anthropologist in accordance with the *Coroners Act 2009*. Heritage NSW would also be notified of the finds with all confirmed ancestral remains registered on the AHIMS database.

3.4 Site Recording

All Aboriginal objects and sites would be recorded and registered on the AHIMS database at the end of the field survey.

Feedback from the RAPs would be sought to identify any culturally sensitive or gendered sites which may need to be registered as a restricted site.

3.5 Archaeological Reporting

The results of the archaeological field investigation would be documented in an ACHAR for each component of the Project. The report would detail the results of the field investigation and would be completed in accordance with the Code of Practice.

3.6 Test Excavation

At present, test excavation has not been incorporated into the current methodology.

Areas of PAD will be recorded during the survey and reviewed against the design layout to confirm if they would be subject to impact by the Project. Where impact cannot be avoided, mechanisms to further investigate these sites through archaeological excavation will be recommended.

Any test excavation program would be subject to a separate test excavation methodology which would be subject to consultation with the RAPs.

3.7 Aboriginal Stakeholder Involvement

It is proposed that the survey would consist of two survey teams. Each survey team is proposed to be comprised of one archaeologist and up to four RAPs per day. It would be the site archaeologist's responsibility to perform all photographic tasks and site recording and ensure adequate site recording in undertaken in accordance with the requirements of the Code of Practice and this methodology.

A copy of this proposed survey methodology has been sent to all RAPs to provide any comments they may have prior to its implementation.

4. ACHAR METHODOLOGY

Individual ACHAR's will be prepared for both the Wind Farm and Solar Farm components. Each ACHAR will include the steps outlined in *Section 4.1 – Section 4.4*.

Each ACHAR will be prepared in accordance with the Heritage NSW Consultation Requirements and the Code of Practice and will include the following steps.

4.1 Background research and predictive modelling

A background assessment will review and analyse existing background information to gain a contextual understanding of the cultural landscape associated with the Project Area. Review of background information will include assessment of environmental information, former historic land use, available ethnographic information, as well as existing registered Aboriginal heritage sites and reports.

This stage is ongoing, with preliminary information identified throughout this phase summarised in *Section 2* above.

4.2 Aboriginal Community Consultation

- Aboriginal community consultation for the project is proceeding in accordance with the Consultation Requirements which involved the following four key steps:
 - **Stage 1:** Notification of project proposal and registration of interest;
 - **Stage 2:** Presentation of information about the proposed project;
 - **Stage 3:** Gathering information about cultural significance; and
 - **Stage 4:** Review of draft cultural heritage assessment report.
- **Stage 1** has been completed and included the following steps:
 - Placement of a public advertisement in the Guardian, Swan Hill;
 - Liaison with relevant legislative bodies to identify potentially interested parties; and
 - Liaison with potential interested parties identified to invite them to register an interest in the project.

- **Stage 2** and **Stage 3** is currently underway and includes the preparation of the current document to present information regarding the proposed project and assessment methodology. This document also requests information regarding the cultural significance of the Project Area. Feedback on this document will be requested within 28 days of its issue to RAPs.

- **Stage 4** will involve the provision of the Draft ACHAR for review. The Draft ACHAR will provide a summary of the identified Aboriginal heritage values identified and the assessed impacts associated with the development. The report will also identify mitigation and management measures. The review of the Draft ACHAR will request feedback to confirm that the cultural values of the Project Area have been adequately identified and that the proposed management and mitigation measures for any impacts are appropriate.

4.3 Identification and Assessment of Cultural Values

- The identification and assessment of cultural values will be completed using a combination of consultation with RAPs and field investigation:
 - Field investigation for both the Wind Farm and Solar Farm Project is proposed to involve the field survey component as detailed above;

- Identification of cultural values will be undertaken in consultation with the RAPs where possible, information on identified cultural values will be supplemented by the identification of cultural values through the review of previous reporting and publicly available information; and
- Assessment of cultural values will include consideration of Social, Historical, Aesthetic and Scientific values within each Project Area.

4.4 Assessment of Harm

Following the identification of Aboriginal cultural values for the respective Project Area, an impact assessment will be completed to identify whether any Aboriginal Objects, Places or cultural values will be harmed by the proposed works.

Where harm is identified which cannot be avoided, recommendations to manage and mitigate the harm will be proposed.

Harm would only be authorised as part of the Project's Conditions of Approval.

4.5 Assessment timeframes

Proposed timing for completion of tasks associated with both field investigation and the ACHAR are provided below.

It is noted that timing for field investigations would be subject to weather conditions and site access.

Table 4.1 Assessment Timeframes

Assessment step	Description	Indicative timing	Proposed timeframe
Stage 1 – consultation process	Development of RAP list through: <ul style="list-style-type: none"> ■ Feedback from government bodies; ■ Placement of adverts in The Guardian Swan Hill; and ■ Contacting parties identified by government bodies. 	Beginning of January 2023	6 weeks (minimum 14 days from placement of adverts and timeframe)
Stage 2 and Stage 3 – consultation process	Development and review by RAPs of project information and proposed assessment methodology. Provision of RAP list to the Local Aboriginal Land Council and Heritage NSW.	March 2023	28 days
Revision of assessment methodology based on RAP comments	Updates to methodology based on feedback received during RAP review.	Early April 2023	1 week
Field program	Combined Wind Farm and Solar Farm Field survey.	April-May 2023	15 Days
Post field recording and reporting	Drafting of Wind Farm ACHAR and Solar FARM ACHAR.	June-July 2023	6 weeks
RAP review of draft ACHARs	Review of both Wind Farm ACHAR and Solar Farm ACHAR.	August 2023	28 days
Finalisation of ACHARs		September 2022	2 weeks

5. FEEDBACK

ERM requests that you review and provide feedback on this information package and express your interest in participating in the fieldwork program by **31th March 2023**.

As part of your response ERM asks you to consider:

- a) whether there are any Aboriginal objects of cultural value to Aboriginal people in the Project Area or surrounds; and
- b) whether there are any places of cultural value to Aboriginal people in the Project Area or surrounds.

Any cultural knowledge provided by Aboriginal Stakeholders will be treated in confidence and the information will be distributed according to their wishes.

If you wish to be involved in the field investigation program, please include copies of your public liability and worker's compensation insurance as part of your expression of interest.

Please provide feedback to **Lorien Perchard** at the following contact details:

Post: Locked Bag 3012, Australia Square, NSW 2000

Phone: +61 2 8584 8828

Email: lorien.perchard@erm.com

Yours sincerely,

For Environmental Resources Management Australia Pty Ltd



Lorien Perchard
Heritage Consultant

REFERENCES

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DRAFT

Maggie Cronin

From: Lorien Perchard
Sent: Tuesday, 7 March 2023 7:46 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hi [REDACTED]

It was nice to talk to you yesterday. As I was saying in our conversation the project is located approx. 12km south of within the Hay and the Deniliquin LALCs. Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area. We request that any feedback is provided by 3rd April 2023.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the Easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you.

Cheers, Lorien Perchard

From: Lorien Perchard
Sent: Monday, March 6, 2023 9:14 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Good morning.

I hope this email finds you well. I'm just touching base with you as I didn't receive a response to the below email and the closing date to register your interest to participate has drawn closed. However due to some delays I am due to send out the project methodologies to interested parties today. So, if you are interested in participating in the consultation process for this project, please let me know so I can include you in the registered list.

Kind regards, Lorien Perchard.

From: Lorien Perchard
Sent: Tuesday, January 24, 2023 3:05 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Dear [REDACTED]

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ ✗

ERM

[Redacted]

[Redacted] | W www.erm.com



Maggie Cronin

From: Lorien Perchard
Sent: Monday, 6 March 2023 10:06 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hi [REDACTED]

Thanks for registering your interest to be included in The Plains Renewable Energy Park Project located south of Hay. Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area.

We request that any feedback is provided by **3rd April 2023**.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you.

Cheers, Lorien Perchard

From: Lorien Perchard
Sent: Tuesday, January 24, 2023 3:28 PM
To: [REDACTED]
Cc: Joanne Woodhouse [REDACTED]
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Hi [REDACTED]

Sorry about that. I will make a note of your comments for the report.

Please find attached a PDF map of the Project Area. And the table below contains the Lots and DPs within the Project Area boundary. Any other queries please let me know.

Cheers, Lorien

Lot number	Plan number
105	721978
45	756321
32	756321
7	756321
12	756321
13	756321

5	756321
6	756321
44	756321
3	134993
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12	756737
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From: [REDACTED]
Sent: Tuesday, January 24, 2023 3:05 PM
To: Lorien Perchard [REDACTED]
Subject: Re: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

You don't often get email from [REDACTED] [Learn why this is important](#)

EXTERNAL MESSAGE

Dear Lorien,

There is no such thing as the 'Nari Nari' people. Can you please send a map or a Lot/DP so that I can accurately ascertain the location of your project?

Kind Regards,

[REDACTED]

On 24/01/2023 3:00 pm, Lorien Perchard wrote:

Dear [REDACTED]

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard

Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[Redacted]
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Maggie Cronin

From: Lorien Perchard
Sent: Monday, 6 March 2023 10:00 AM
To: [REDACTED]
Subject: FW: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hi [REDACTED]

It was nice to talk to you this morning. As I was saying in our conversation the project is located south of Hay but includes an area within the northern boundary of the Deniliquin LALC. Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference. The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area. We request that any feedback is provided by **3rd April 2023**.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the Easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you.

Cheers, Lorien Perchard

From: Lorien Perchard
Sent: Thursday, January 12, 2023 12:09 PM
To: [REDACTED]
Cc: Joanne Woodhouse [REDACTED]
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment

To whom it may concern,

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW. From our initial understanding the project area covers land of both the Hay LALC and the Deniliquin LALC.

We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. The client would like to organise a cultural heritage awareness meeting during the projects inception, which would give the Hay LALC and Deniliquin LALC the opportunity to share with us your vast knowledge of cultural values in the area, as well as provide an opportunity to discuss the field investigation and the type of sites we might encounter and how they should be treated.

If you have any queries or would like to know more about the project please feel free to contact me. And if you have a list of names of people who you think should be contacted as part of this project please pass it on to me so I can be sure to include them in the consultation process.

Looking forward to working with you over the coming year.

Kind Regards,

Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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Maggie Cronin

From: Lorien Perchard
Sent: Monday, 6 March 2023 10:14 AM
To: [REDACTED]
Cc: Joanne Woodhouse
Subject: FW: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hello [REDACTED]

How are you? It's been a long time between communication, and I wanted to touch base with you and give you an update on the project from my end. The client and project manager has let me know that a workshop in Hay and a possible site visit has been set for the 20th and 21st of March which myself and another archaeologist from ERM will be attending.

I have also attached a copy of the Draft methodology to this email for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area.

We request that any feedback is provided by 3rd April 2023.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable. If you have any queries, please let me know.

Thanks, and look forward to meeting with you in a few weeks.

Kind Regards,
Lorien Perchard
Heritage Consultant

ERM
[REDACTED]
[REDACTED]
[REDACTED] | W www.erm.com



From: Lorien Perchard
Sent: Thursday, January 12, 2023 12:09 PM
To: [REDACTED]
Cc: Joanne Woodhouse [REDACTED]
Subject: Request for potentially interested parties- The Plains Renewable Energy Park, NSW- Aboriginal Cultural Heritage Assessment

Hello [REDACTED], and happy new year. I hope you all had a lovely break and that the flood water has receded.

Last year when we were in communication I was trying to organise a preliminary site visit for The Plains Renewable Energy Park project as an initial familiarisation visit as we had identified that it is likely that the Project Area holds significant Aboriginal cultural and archaeological value. Intention of the site familiarisation visit was to be undertaken as a visual inspection by vehicle across the property with opportunities to stop the vehicle at points of interest to the LALC or archaeologist to help build an understanding of the landscape and any preliminary areas of cultural significance. Sadly due to factors out of all our controls we have not yet been able to get onto site or have the opportunity to meet you, however I'm sure that will all change over the next few weeks and months as we are formally kicking off the consultation process for the project.

In accordance with Section 4.1.2 of the Aboriginal cultural heritage consultation requirements for proponents 2010, please find attached a letter requesting the names of Aboriginal parties who may hold an interest in the proposed The Plains Renewable Energy Park project, located south of Hay, NSW.

We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. My colleague Alyce Haast is no longer working for ERM so I will be taking over as Heritage Lead. She did mention before she left that the client would like to organise a cultural heritage awareness meeting, which would give the Hay LALC the opportunity to share with us your vast knowledge of cultural values in the area, as well as provide an opportunity to discuss the field investigation and the type of sites we might encounter and how they will be treated.

Looking forward to working with you over the coming year.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[REDACTED]
[REDACTED]

[REDACTED] | W www.erm.com



Maggie Cronin

From: Lorien Perchard
Sent: Tuesday, 7 March 2023 7:49 AM
To: [REDACTED]
Subject: Project methodology -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

[REDACTED]

It was nice to talk to you yesterday. As I was saying in our conversation the project is located approx. 12km south of Hay within the Hay and Deniliquin LALC boundaries. Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area. We request that any feedback is provided by 3rd April 2023.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the Easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you.

Cheers, Lorien Perchard

From: Lorien Perchard
Sent: Monday, March 6, 2023 9:35 AM
To: [REDACTED]
Subject: FW: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Good morning [REDACTED]

I hope this email finds you well. I'm just touching base with you as I didn't receive a response to the below email and the closing date to register your interest to participate has drawn closed. However due to some delays I am due to send out the project methodologies to interested parties today. So, if you are interested in participating in the consultation process for this project, please let me know so I can include you in the registered list.

Kind regards, Lorien Perchard.

From: Lorien Perchard
Sent: Tuesday, January 24, 2023 3:09 PM
To: [REDACTED]
Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Dear [REDACTED]

I hope you are well. I am reaching out to you again as another heritage project has come up in the region and I thought you might like to be consulted throughout the project.

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,
Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[Redacted]

[Redacted] | [W www.erm.com](http://www.erm.com)



Maggie Cronin

From: Lorien Perchard
Sent: Monday, 6 March 2023 10:38 AM
To: [REDACTED]
Subject: Project methodology - Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hi [REDACTED] how are you?

Thank you for registering your interest to be included in the consultation process for The Plains Renewable Energy Park Project located south of Hay.

Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area. We request that any feedback is provided by **3rd April 2023**. I have previously noted your concerns over the wind turbines upsetting the bat and tawny frog mouth flight paths and the cultural significance of these animals as totems, which will be included and discussed within the ACHAR reports.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) and completing an archaeological survey. I will confirm these dates as soon as possible for you. If you are interested in participating in the survey please let me know so I can include you in the preparations that will kick-off over the next few weeks. I note that it is the Easter break during the two-week time period of the survey but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable. From our previous conversation I remember you asking me what the rate was. I cannot confirm the amount for this client and project yet, but my experience from other projects in NSW is generally a rate of \$150 per hour (\$250 per hour for public holidays) is charged by RAPS. Work Insurances are also required, if you do not have this I know we have engaged with Adam English from Cultural Heritage Solutions Pty Ltd ([Cultural Heritage Solutions manage cultural heritage and native title - Brisbane](http://CulturalHeritageSolutionsmanageculturalheritageandnativetitle-Brisbane.culturalheritagesolutionsptyltd.com.au) culturalheritagesolutionsptyltd.com.au) previously and they can help RAPS navigate this.

If you have any queries, please let me know.

Thanks, and look forward to working with you, Lorien Perchard

From: Lorien Perchard
Sent: Tuesday, January 24, 2023 2:59 PM
To: [REDACTED]
Cc: Joanne Woodhouse [REDACTED]
Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Dear [REDACTED],

Thanks you for your phone call last Wednesday. It was nice to chat to chat you. The information you passed on to me regarding the bat and owl totems as well as your concerns for their safety has been noted and passed on.

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,

Lorien Perchard
Heritage Consultant

Mon	Tue	Wed	Thu	Fri
✓	✓	✓	✓	x

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[Redacted contact information]

[Redacted contact information] | www.erm.com



Maggie Cronin

From: Lorien Perchard
Sent: Tuesday, 7 March 2023 7:55 AM
To: [REDACTED]
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Great, thanks for letting me know [REDACTED]. I will register you interest in the project.

Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area.

We request that any feedback is provided by 3rd April 2023.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you. Feel free to give me a call if you have any queries on 0430 984 798.

Cheers, Lorien Perchard

From: [REDACTED]
Sent: Monday, March 6, 2023 2:25 PM
To: Lorien Perchard [REDACTED]
Subject: Re: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

EXTERNAL MESSAGE

Hi Lorien I'm [REDACTED] Mutthi mitthi Elder of Balranald I would like to participate in the ACHAR
Kind regards [REDACTED]
Sent from my iPhone

On 6 Mar 2023, at 9:16 am, Lorien Perchard [REDACTED] wrote:

Good morning.

I hope this email finds you well. I'm just touching base with you as I didn't receive a response to the below email and the closing date to register you interest to participate has drawn closed. However due to some delays I am due to send out the project methodologies to interested parties today. So, if you are interested in participating in the consultation process for this project, please let me know so I can include you in the registered list.

Kind regards, Lorien Perchard.

From: Lorien Perchard
Sent: Tuesday, January 24, 2023 2:58 PM
To: [REDACTED]
Subject: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Dear [REDACTED],

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,

Lorien Perchard
Heritage Consultant

Mon Tue Wed Thu Fri
✓ ✓ ✓ ✓ x

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[REDACTED]
[REDACTED]

[REDACTED] | **W** www.erm.com

<image002.png>

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<The Plains Registration of Interest [REDACTED].pdf>

Maggie Cronin

From: Lorien Perchard
Sent: Monday, 6 March 2023 9:55 AM
To: Pappin Family Aboriginal Corporation
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hi [REDACTED]

Thanks for registering your interest to be included in the consultation process for The Plains Renewable Energy Park Project located south of Hay. Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area.

We request that any feedback is provided by 3rd April 2023.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. I note that it is the Easter break during this period but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

Thanks, and look forward to working with you.

Cheers, Lorien Perchard

From: Lorien Perchard
Sent: Monday, January 30, 2023 9:41 AM
To: Pappin Family Aboriginal Corporation [REDACTED]
Subject: RE: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

Hi [REDACTED]

Thanks for your reply. I look forward to working with you over the coming year.

I have registered your interest in the project and will be in touch in the following weeks. I will send you a project methodology to read through. If you have any comments please let me know.

Cheers, Lorien

From: Pappin Family Aboriginal Corporation [REDACTED]
Sent: Friday, January 27, 2023 9:21 AM
To: Lorien Perchard [REDACTED]
Subject: Re: Invitation to Register -The Plains Energy Park- Solar and Wind Farm ACHARs

EXTERNAL MESSAGE

Good day Lorien, the Pappin Family Aboriginal Corporation would like to register our interest in the Plains Energy Park Solar and Wind.

thanks and we look forward to hearing from you soon

Our contacts are

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Regards

[REDACTED]

On 24 Jan 2023 2:56 pm, Lorien Perchard [REDACTED] wrote:

Dear [REDACTED]

In accordance with Section 4.1.3 of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached an Invitation to Register an interest to participate in Aboriginal community consultation for The Plains Energy Park (the Project) which will consist of two Aboriginal Cultural Heritage Assessments which will assess both the proposed Wind and Solar Farm. It will be located south of Hay, NSW, within the Hay Shire and Edward River Local Government Area in what is understood to traditionally have been within the boundaries of the Nari Nari people. Currently the Project area is located within the boundaries of Hay and Deniliquin Local Aboriginal Land Council on Mungadal Station.

The attached letter outlines the details of the proposed project. We are hoping to ensure consultation with the Aboriginal community regarding the project is undertaken from the earliest stages of the Project. Please feel free to get in touch if you have any queries or wish to register your interest to participate throughout the process.

Kind Regards,

Lorien Perchard

Heritage Consultant

Mon	Tue	Wed	Thu	Fri
✓	✓	✓	✓	x

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[REDACTED]
[REDACTED]



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Maggie Cronin

From: Lorien Perchard
Sent: Monday, 6 March 2023 9:54 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: The Plains Renewable Energy Park
Attachments: 0667692 The Plains ACHAR Methodology_V1.pdf

Hi [REDACTED]

Thank you for your response and registering your interest to be included in the consultation process for The Plains Renewable Energy Park Project located south of Hay. You have previously noted your primary interest in the southern portion of the project area and we are happy for you to participate in any capacity you wish too.

Please find attached a copy of the Draft methodology for the upcoming project which includes mapping of the area for your reference.

The methodology includes details on how the field assessment and ACHARs are proposed to be undertaken. The document also requests any feedback you may have on the assessment procedure including any cultural values or areas of significance within the project area.

We request that any feedback is provided by **3rd April 2023**.

We will be looking at getting into the field in early April for a period of 2 weeks (approx. 3rd April to 14th April) . I will confirm these dates as soon as possible for you. If you are interested in participating in the survey for only the southern portion of the project, we will be able to work around this once we have a survey plan organised and know which days we will be in which location. I note that it is the easter break during the two-week time period of the survey but due to time constraints we might look at working over that holiday period. If you are interested in participating in the survey, could you please confirm if working over the easter break is ok for you and the participating RAPS and provide a quote for an hourly rate, and public holiday rate if applicable.

If you have any queries, please let me know.

Thanks, and look forward to working with you, Lorien Perchard

From: [REDACTED]
Sent: Friday, January 27, 2023 11:34 AM
To: Lorien Perchard [REDACTED]
Subject: The Plains Renewable Energy Park

You don't often get email from [REDACTED]. [Learn why this is important](#)

EXTERNAL MESSAGE

This area lies at the northern boundary between Wamba Wamba/Perrepa Perrepa country and Nari Nari country so our primary interest is in the southern portion

[REDACTED]

[Redacted]

Manager

Yarkuwa Indigenous Knowledge Centre

Aboriginal Corporation



[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

We acknowledge that we live and work on Aboriginal land



APPENDIX I

AHIMS SEARCH RESULTS

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0311	WPB_IF_006	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0359	WPB_AFT_004	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0391	WPB_ST_001	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0384	WPB_AFT_020	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits 4399
48-5-0399	WPB_AFT_010	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0320	WPB_IF_035	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0418	Additional 10 km_Reburial_001	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0343	LINK_IF_005	GDA	55			Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshw				Permits 4399
48-5-0194	Rosevale midden 1	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders				Mr.Peter Ingram				Permits
48-5-0313	WPB_IF_008	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits 4399
48-5-0297	West Pevensey Burial 1	GDA	55			Open site	Valid	Artefact : -, Burial : -, Hearth : -, Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits
48-5-0368	WPB_AFT_041	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits 4399
48-5-0324	WPB_IF_031	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0337	WPB_IF_040	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0416	The Link_Reburial_001	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0330	WPB_IF_026	GDA	55			Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshw				Permits 4399

Report generated by AHIMS Web Service on 10/08/2021 for Maggie Cronin for the following area at Datum :GDA, Zone : 55, [REDACTED] with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101

This information is not guaranteed to be free from error omission, Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission,

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0401	WPB_AFT_007	GDA	55			Open site	Valid	Artefact : -, Hearth :-		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0325	WPB_IF_021	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0397	WPB_AFT_035	GDA	55			Open site	Valid	Artefact : -, Hearth :-		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits
48-5-0355	LINK_IF_008	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits 4399
48-5-0346	LINK_IF_002	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0396	LINK_AFT_004	GDA	55			Open site	Valid	Artefact : -, Hearth :-		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0410	RV_AFT_002	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits 4399
48-5-0351	RV_IF_003	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0412	RV_HTH_001	GDA	55			Open site	Valid	Hearth :-		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0400	WPB_AFT_009	GDA	55			Open site	Valid	Artefact : -, Hearth :-		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0392	WPB_ST_002	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0298	WPB_IF_020	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0321	WPB_IF_034	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0322	WPB_IF_033	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0299	WPB_IF_017	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0379	WPB_AFT_024	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0374	WPB_AFT_034	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits

Report generated by AHIMS Web Service on 10/08/2021 for Maggie Cronin for the following area at Datum :GDA, Zone : 55, [REDACTED] with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101

This information is not guaranteed to be free from error omission, Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0378	WPB_AFT_026	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0377	WPB_AFT_027	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0334	WPB_IF_022	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0339	WPB_IF_042	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0340	WPB_IF_043	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0365	LINK_AFT_003	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits
48-5-0344	LINK_IF_004	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits 4399
48-5-0312	WPB_IF_007	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0363	WPB_AFT_006	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0317	WPB_IF_011	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0302	WPB_IF_016	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits 4399
48-5-0373	WPB_AFT_036	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0372	WPB_AFT_037	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0380	WPB_AFT_025	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits 4399
48-5-0375	WPB_AFT_030	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshw				Permits 4399
48-5-0338	WPB_IF_041	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits
48-5-0370	WPB_AFT_039	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshw				Permits 4399

Report generated by AHIMS Web Service on 10/08/2021 for Maggie Cronin for the following area at Datum :GDA, Zone : 55, [REDACTED] with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0366	LINK_AFT_002	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0356	LINK_IF_007	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits 4399
48-5-0354	LINK_IF_009	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0342	LINK_IF_006	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits 4399
48-5-0364	LINK_AFT_005	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0415	RV_Reburial_001	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0393	RV_AFT_003	GDA	55	[REDACTED]	[REDACTED]	Open site	Partially Destroyed	Artefact : -, Hearth : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F				Permits 4399
48-5-0394	RV_AFT_001	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0304	WPB_IF_014	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0387	WPB_AFT_017	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0306	WPB_IF_005	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0307	WPB_IF_004	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0420	WPB_Reburial_001	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0386	WPB_AFT_018	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0300	WPB_IF_018	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0332	WPB_IF_024	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0318	WPB_IF_037	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0335	WPB_IF_038	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits

Report generated by AHIMS Web Service on 10/08/2021 for Maggie Cronin for the following area at Datum :GDA, Zone : 55, [REDACTED] with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101

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SiteID	SiteName	Datum	Zone	Eastings	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0333	WPB_IF_023	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0398	WPB_AFT_028	GDA	55			Open site	Valid	Hearth : -, Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0417	Additional 10 km_Reburial_002	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0341	WPB_IF_044	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0345	LINK_IF_003	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0408	RV_AFT_005	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F			Permits	4399
48-5-0423	WPB_IF_047	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0422	WPB_IF_048	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0403	WPB_AFT_003	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0314	WPB_IF_009	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0323	WPB_IF_032	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0336	WPB_IF_039	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0369	WPB_AFT_040	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshw			Permits	4399
48-5-0367	LINK_AFT_001	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F			Permits	4399
48-5-0395	LINK_AFT_006	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshw			Permits	4399
48-5-0424	WPB_IF_046	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0315	WPB_IF_010	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick				Permits
48-5-0402	WPB_AFT_005	GDA	55			Open site	Valid	Artefact : -, Hearth : -		

Report generated by AHIMS Web Service on 10/08/2021 for Maggie Cronin for the following area at Datum :GDA, Zone : 55, [REDACTED] with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders								Permits
48-5-0301	WPB_IF_019	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0381	WPB_AFT_021	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0319	WPB_IF_036	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0383	WPB_AFT_022	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0382	WPB_AFT_023	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0331	WPB_IF_025	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0376	WPB_AFT_029	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders								Permits 4399
48-5-0371	WPB_AFT_038	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0421	LINK_IF_010	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0347	LINK_IF_001	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0349	RV_IF_006	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits 4399
48-5-0409	RV_AFT_004	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders								Permits 4399
48-5-0353	RV_IF_002	GDA	55			Open site	Destroyed	Artefact : -		
	Contact	Recorders								Permits 4399
48-5-0352	RV_IF_001	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders								Permits
48-5-0193	Rosevale midden 2	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders								Permits



AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 0606253c

Client Service ID : 612680

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
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**** Site Status**

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

Report generated by AHIMS Web Service on 10/08/2021 for Maggie Cronin for the following area at Datum :GDA, Zone : 55 [REDACTED] with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0106	16 Mile Gums 2 Contact	AGD	55	[REDACTED]	[REDACTED]	Open site	Valid	Hearth : -		Permits
48-5-0411	RV_HTH_002 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Hearth : -		Permits
48-5-0348	RV_IF_004 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		Permits
48-5-0350	RV_IF_005 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		Permits 4399
48-5-0406	RV_AFT_007 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Partially Destroyed	Artefact : -		Permits 4399
48-5-0201	Mungadal Scar Tree 3 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Modified Tree (Carved or Scarred) : -		Permits 4399
48-5-0196	Mungadal Hearth 1 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Hearth : -		Permits
48-5-0108	16 Mile Gums 4 Contact	AGD	55	[REDACTED]	[REDACTED]	Open site	Valid	Hearth : -		Permits
48-5-0407	RV_AFT_006 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Artefact : -		Permits 4399
48-5-0405	RV_AFT_008 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Partially Destroyed	Artefact : -		Permits 4399
48-5-0404	RV_AFT_009 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Partially Destroyed	Artefact : -		Permits 4399
48-5-0195	Mungadal Scar Tree 4 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Modified Tree (Carved or Scarred) : -		Permits
48-5-0021	D-B#21;Booorooban; Contact	AGD	55	[REDACTED]	[REDACTED]	Open site	Valid	Modified Tree (Carved or Scarred) : -, Artefact : -	Open Camp Site, Scarred Tree	Permits
48-5-0105	16 Mile Gums 1 Contact	AGD	55	[REDACTED]	[REDACTED]	Open site	Valid	Hearth : -		Permits
48-5-0199	Mungadal Scar Tree 6 Contact	GDA	55	[REDACTED]	[REDACTED]	Open site	Valid	Modified Tree (Carved or Scarred) : -		

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Ingram					<u>Permits</u>		
48-5-0107	16 Mile Gums 3	AGD	55			Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Doctor,Colin Pardoe					<u>Permits</u>		
48-5-0202	Mungadal Scar Tree 2	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Ingram					<u>Permits</u>		
48-5-0197	Mungadal Scar Tree 5	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Ingram					<u>Permits</u>		
48-5-0037	Test Pitting Area 6 (duplicate refer to 52-5-0410)	AGD	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Stuart Huys					<u>Permits</u>		
48-5-0109	16 Mile Gums 5	AGD	55			Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Doctor,Colin Pardoe					<u>Permits</u>		
48-5-0198	Mungadal Scar Tree 7	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Ingram					<u>Permits</u>		
48-5-0203	Mungadal Scar Tree 1	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Ingram					<u>Permits</u>		
48-5-0200	Mungadal Scar Tree 8	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Ingram					<u>Permits</u>		
48-5-0425	RV_IF_007	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Matthew Barber,NGH Heritage - Fyshwick					<u>Permits</u>		

**** Site Status**

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution,

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified



AHIMS Web Services (AWS)

Note: This Excel report shows the sites found in AHIMS on the 13/09/2022. If this date is not the same as the original date of the Search Results letter obtained during the Basic Search, then the search results might be different. The PDF version of this report will always coincide with the Basic Search Results letter.

Site ID	Site name	Datum	Zone	Easting	Northing	Context	Site status	Primary contact	Site features	Site types	Recorders	Reports	Permits	Longitude GDA94	Latitude GDA94
48-5-0193	Rosevale midden 2	GDA	55				Open site Valid		Hearth : -		Mr.Peter Ingram			144.87	-34.63
48-5-0194	Rosevale midden 1	GDA	55				Open site Valid		Hearth : -		Mr.Peter Ingram			144.87	-34.63
48-5-0412	RV_HTH_001	GDA	55				Open site Valid		Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.87	-34.64
48-5-0364	LINK_AFT_005	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.74	-34.62
48-5-0365	LINK_AFT_003	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH H			144.74	-34.62
48-5-0366	LINK_AFT_002	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.74	-34.62
48-5-0367	LINK_AFT_001	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.74	-34.62
48-5-0368	WPB_AFT_041	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.64	-34.63
48-5-0369	WPB_AFT_040	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matth 4399			144.73	-34.62
48-5-0370	WPB_AFT_039	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matth 4399			144.73	-34.62
48-5-0371	WPB_AFT_038	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.73	-34.62
48-5-0372	WPB_AFT_037	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.63
48-5-0373	WPB_AFT_036	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0374	WPB_AFT_034	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.88	-34.63
48-5-0375	WPB_AFT_030	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matth 4399			144.72	-34.62
48-5-0376	WPB_AFT_029	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.70	-34.62
48-5-0377	WPB_AFT_027	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.62
48-5-0378	WPB_AFT_026	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.62
48-5-0379	WPB_AFT_024	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.88	-34.62
48-5-0380	WPB_AFT_025	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.89	-34.62
48-5-0381	WPB_AFT_021	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0382	WPB_AFT_023	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.88	-34.62
48-5-0383	WPB_AFT_022	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.87	-34.62
48-5-0384	WPB_AFT_020	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick 4399			144.84	-34.63
48-5-0386	WPB_AFT_018	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.83	-34.63
48-5-0387	WPB_AFT_017	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.80	-34.62
48-5-0391	WPB_ST_001	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.83	-34.63
48-5-0392	WPB_ST_002	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.83	-34.63
48-5-0393	RV_AFT_003	GDA	55				Open site Partially Destroyed		Artefact : -, Hearth : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.87	-34.64
48-5-0394	RV_AFT_001	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.87	-34.64
48-5-0395	LINK_AFT_006	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matth 4399			144.74	-34.62
48-5-0396	LINK_AFT_004	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.74	-34.62
48-5-0397	WPB_AFT_035	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH H			144.80	-34.63
48-5-0398	WPB_AFT_028	GDA	55				Open site Valid		Hearth : -, Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.62
48-5-0399	WPB_AFT_010	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.84	-34.63
48-5-0400	WPB_AFT_009	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.81	-34.64
48-5-0401	WPB_AFT_007	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.83	-34.63
48-5-0402	WPB_AFT_005	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.82	-34.63
48-5-0403	WPB_AFT_003	GDA	55				Open site Valid		Artefact : -, Hearth : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.81	-34.62
48-5-0408	RV_AFT_005	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.88	-34.73
48-5-0409	RV_AFT_004	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.87	-34.67
48-5-0410	RV_AFT_002	GDA	55				Open site Partially Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.86	-34.68
48-5-0298	WPB_IF_020	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.85	-34.62
48-5-0299	WPB_IF_017	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.87	-34.62
48-5-0300	WPB_IF_018	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.84	-34.63
48-5-0301	WPB_IF_019	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.85	-34.62
48-5-0302	WPB_IF_016	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick 4399			144.83	-34.63
48-5-0304	WPB_IF_014	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.80	-34.65
48-5-0306	WPB_IF_005	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.81	-34.64
48-5-0307	WPB_IF_004	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.81	-34.62
48-5-0311	WPB_IF_006	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.81	-34.63
48-5-0312	WPB_IF_007	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.82	-34.63
48-5-0313	WPB_IF_008	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick 4399			144.83	-34.64
48-5-0314	WPB_IF_009	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick 4399			144.82	-34.64
48-5-0315	WPB_IF_010	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.81	-34.65
48-5-0317	WPB_IF_011	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.83	-34.63
48-5-0297	West Pevensey Burial	GDA	55				Open site Valid		Artefact : -, Burial : -, Hearth : -, Potential Archae		Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH H			144.83	-34.63
48-5-0318	WPB_IF_037	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.63
48-5-0319	WPB_IF_036	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0320	WPB_IF_035	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0321	WPB_IF_034	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0322	WPB_IF_033	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0323	WPB_IF_032	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0324	WPB_IF_031	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.62
48-5-0325	WPB_IF_021	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.88	-34.62
48-5-0330	WPB_IF_026	GDA	55				Open site Destroyed		Artefact : -		Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matth 4399			144.80	-34.85
48-5-0331	WPB_IF_025	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.63
48-5-0332	WPB_IF_024	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.63
48-5-0333	WPB_IF_023	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.62
48-5-0334	WPB_IF_022	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.71	-34.62
48-5-0335	WPB_IF_038	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.62
48-5-0336	WPB_IF_039	GDA	55				Open site Valid		Artefact : -		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.89	-34.62

48-5-0337	WPB_IF_040	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.72	-34.82
48-5-0338	WPB_IF_041	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH H	144.73	-34.82
48-5-0339	WPB_IF_042	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.73	-34.82
48-5-0340	WPB_IF_043	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.74	-34.82
48-5-0341	WPB_IF_044	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.72	-34.82
48-5-0342	LINK_IF_006	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick 4300	144.74	-34.81
48-5-0343	LINK_IF_005	GDA	55	████	████	Open site Destroyed	Artefact :-	Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matth 4300	144.74	-34.81
48-5-0344	LINK_IF_004	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick 4300	144.74	-34.87
48-5-0345	LINK_IF_003	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.74	-34.82
48-5-0346	LINK_IF_002	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.74	-34.82
48-5-0347	LINK_IF_001	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.74	-34.82
48-5-0349	RV_IF_006	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick 4300	144.87	-34.87
48-5-0351	RV_IF_003	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.87	-34.70
48-5-0352	RV_IF_001	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.87	-34.85
48-5-0353	RV_IF_002	GDA	55	████	████	Open site Destroyed	Artefact :-	Mr.Matthew Barber,Mr.Matthew Barber,Mr.Matth 4300	144.87	-34.88
48-5-0354	LINK_IF_009	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.74	-34.82
48-5-0355	LINK_IF_008	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick 4300	144.74	-34.82
48-5-0356	LINK_IF_007	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick 4300	144.74	-34.82
48-5-0359	WPB_AFT_004	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.82	-34.83
48-5-0363	WPB_AFT_006	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.83	-34.83
48-5-0415	RV_Reburial_001	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.88	-34.71
48-5-0416	The Link_Reburial_001	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.74	-34.81
48-5-0417	Additional 10 km_Rebu	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.71	-34.82
48-5-0418	Additional 10 km_Rebu	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.87	-34.82
48-5-0420	WPB_Reburial_001	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.82	-34.83
48-5-0421	LINK_IF_010	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.74	-34.81
48-5-0422	WPB_IF_048	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.80	-34.85
48-5-0423	WPB_IF_047	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.80	-34.85
48-5-0424	WPB_IF_046	GDA	55	████	████	Open site Valid	Artefact :-	Mr.Matthew Barber,NGH Heritage - Fyshwick	144.80	-34.85



AHIMS Web Services (AWS)

Note: This Excel report shows the sites found in AHIMS on the 13/09/2022. If this date is not the same as the original date of the Search Results letter obtained during the Basic Search, then the search results might be different. The PDF version of this report will always coincide with the Basic Search Results letter.

Site ID	Site name	Datum	Zone	Easting	Northing	Context	Site status	Primary contact	Site features	Site types	Recorders	Reports	Permits	Longitude GDA94	Latitude GDA94
48-5-0021	D-B#21;Boorooban:	AGD	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.I George,Doctor.Susan (left ahms) McIntyre-Tamwoy			144.88	-34.85
48-5-0037	Test Pitting Area 6 (duj	AGD	55				Open site Valid		Artefact :-		Stuart Huys			144.71	-34.76
48-5-0425	RV_IF_007	GDA	55				Open site Valid		Artefact :-		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.86	-34.74
48-5-0105	18 Mile Gums 1	AGD	55				Open site Valid		Hearth :-		Doctor.Colin Pardoe			144.79	-34.74
48-5-0106	18 Mile Gums 2	AGD	55				Open site Valid		Hearth :-		Doctor.Colin Pardoe			144.79	-34.74
48-5-0107	18 Mile Gums 3	AGD	55				Open site Valid		Hearth :-		Doctor.Colin Pardoe			144.79	-34.74
48-5-0108	18 Mile Gums 4	AGD	55				Open site Valid		Hearth :-		Doctor.Colin Pardoe			144.79	-34.74
48-5-0109	18 Mile Gums 5	AGD	55				Open site Valid		Hearth :-		Doctor.Colin Pardoe			144.79	-34.74
48-5-0195	Mungadal Scar Tree 4	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.96	-34.85
48-5-0196	Mungadal Hearth 1	GDA	55				Open site Valid		Hearth :-		Mr.Peter Ingram			144.96	-34.85
48-5-0197	Mungadal Scar Tree 5	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.96	-34.85
48-5-0198	Mungadal Scar Tree 7	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.95	-34.85
48-5-0199	Mungadal Scar Tree 6	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.96	-34.85
48-5-0200	Mungadal Scar Tree 8	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.96	-34.85
48-5-0201	Mungadal Scar Tree 3	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.96	-34.85
48-5-0202	Mungadal Scar Tree 2	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.96	-34.85
48-5-0203	Mungadal Scar Tree 1	GDA	55				Open site Valid		Modified Tree (Carved or Scarred) :-		Mr.Peter Ingram			144.96	-34.85
48-5-0411	RV_HTH_002	GDA	55				Open site Valid		Hearth :-		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.83	-34.79
48-5-0404	RV_AFT_009	GDA	55				Open site Partially Destroyed		Artefact :-		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.86	-34.74
48-5-0405	RV_AFT_008	GDA	55				Open site Partially Destroyed		Artefact :-		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.86	-34.74
48-5-0406	RV_AFT_007	GDA	55				Open site Partially Destroyed		Artefact :-		Mr.Matthew Barber,Mr.Matthew Barber,NGH He 4399			144.86	-34.74
48-5-0407	RV_AFT_006	GDA	55				Open site Valid		Artefact :-		Mr.Matthew Barber,NGH Heritage - Fyshwick 4399			144.86	-34.73
48-5-0348	RV_IF_004	GDA	55				Open site Valid		Artefact :-		Mr.Matthew Barber,NGH Heritage - Fyshwick			144.83	-34.84
48-5-0350	RV_IF_005	GDA	55				Open site Valid		Artefact :-		Mr.Matthew Barber,NGH Heritage - Fyshwick 4399			144.86	-34.74
48-5-0436	PEC-E-19	GDA	55				Open site Valid		Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.76	-34.84
48-5-0437	PEC-E-20	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.77	-34.85
48-5-0438	PEC-E-21	GDA	55				Open site Valid		Artefact :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.75	-34.81
48-5-0439	PEC-E-22	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.75	-34.81
48-5-0440	PEC-E-23	GDA	55				Open site Valid		Artefact :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.76	-34.80
48-5-0441	PEC-E-24	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.79	-34.81
48-5-0442	PEC-E-25	GDA	55				Open site Valid		Earth Mound :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.80	-34.81
48-5-0443	PEC-E-26	GDA	55				Open site Valid		Earth Mound :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.80	-34.81
48-5-0444	PEC-E-27	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.85	-34.81
48-5-0445	PEC-E-28	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.85	-34.81
48-5-0446	PEC-E-29	GDA	55				Open site Valid		Artefact :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.93	-34.82
48-5-0447	PEC-E-30	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.93	-34.82
48-5-0448	PEC-E-31	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.94	-34.82
48-5-0449	PEC-E-32	GDA	55				Open site Valid		Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.94	-34.82
48-5-0450	PEC-E-33	GDA	55				Open site Valid		Artefact :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.94	-34.82
48-5-0451	PEC-E-34	GDA	55				Open site Valid		Artefact :-, Hearth :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.95	-34.82
48-6-0164	PEC-E-35	GDA	55				Open site Valid		Artefact :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			145.01	-34.83
48-5-0452	PEC-E-18	GDA	55				Open site Valid		Artefact :-		Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini			144.76	-34.85

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0441	PEC-E-24	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders				Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini		Permits		
48-5-0411	RV_HTH_002	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick		Permits		
48-5-0348	RV_IF_004	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick		Permits		
48-5-0472	PREP SU C 02	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		Permits		
48-5-0350	RV_IF_005	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,NGH Heritage - Fyshwick		Permits	4399	
48-5-0406	RV_AFT_007	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders				Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F		Permits	4399	
48-5-0492	PREP SU H 02	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		Permits		
48-5-0194	Rosevale midden 1	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders				Mr.Peter Ingram		Permits		
48-5-0201	Mungadal Scar Tree 3	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders				Mr.Peter Ingram		Permits		
48-5-0547	PREP SU D 07	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		Permits		
48-5-0491	PREP SU H 01	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		Permits		
48-5-0481	PREP SU E 04	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		Permits		
48-5-0468	PREP Solar 05	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		Permits		
48-5-0451	PEC-E-34	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders				Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini		Permits		
48-5-0196	Mungadal Hearth 1	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders				Mr.Peter Ingram		Permits		
48-5-0543	PREP SU C 13	GDA	55			Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		Permits		

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0545	PREP SU C 15	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0484	PREP SU F 02	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0444	PEC-E-27	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	<u>Contact</u>	<u>Recorders</u>				Navin Officer Heritage Consultants Pty Ltd, Mrs.Elisa Scorsini		<u>Permits</u>		
48-5-0410	RV_AFT_002	GDA	55			Open site	Partially Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Mr.Matthew Barber, Mr.Matthew Barber, NGH Heritage - Fyshwick, NGH Heritage - F		<u>Permits</u>	4399	
48-5-0351	RV_IF_003	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Mr.Matthew Barber, NGH Heritage - Fyshwick		<u>Permits</u>		
48-5-0412	RV_HTH_001	GDA	55			Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>				Mr.Matthew Barber, NGH Heritage - Fyshwick		<u>Permits</u>		
48-5-0473	PREP SU C 03	GDA	55			Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) :-		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0474	PREP SU D 02	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0548	PREP SU D 08	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0544	PREP SU C 14	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0493	PREP SU H 03	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0489	PREP SU G 04	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0488	PREP SU G 03	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Environmental Resources Management - Melbourne, Miss.Meghyn Mathison		<u>Permits</u>		
48-5-0407	RV_AFT_006	GDA	55			Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Mr.Matthew Barber, NGH Heritage - Fyshwick		<u>Permits</u>	4399	
48-5-0405	RV_AFT_008	GDA	55			Open site	Partially Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>				Mr.Matthew Barber, Mr.Matthew Barber, NGH Heritage - Fyshwick, NGH Heritage - F		<u>Permits</u>	4399	
48-5-0404	RV_AFT_009	GDA	55			Open site	Partially Destroyed	Artefact : -		

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F					Permits	4399	
48-5-0479	PREP SU E 01	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0482	PREP SU E 05	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0195	Mungadal Scar Tree 4	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) :		
	Contact	Recorders	Mr.Peter Ingram					Permits		
48-5-0442	PEC-E-25	GDA	55			Open site	Valid	Earth Mound : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0443	PEC-E-26	GDA	55			Open site	Valid	Earth Mound : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0480	PREP SU E 02	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0490	PREP SU G 05	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0483	PREP SU F 01	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0415	RV_Reburial_001	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Matthew Barber,NGH Heritage - Fyshwick					Permits		
48-5-0449	PEC-E-32	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0469	PREP Solar 06	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0199	Mungadal Scar Tree 6	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) :		
	Contact	Recorders	Mr.Peter Ingram					Permits		
48-5-0532	W Burrabogie Rd Scatter	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mr.Christian Keyes					Permits		
48-5-0487	PREP SU G 02	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0408	RV_AFT_005	GDA	55			Open site	Partially Destroyed	Artefact : -		
	Contact	Recorders	Mr.Matthew Barber,Mr.Matthew Barber,NGH Heritage - Fyshwick,NGH Heritage - F					Permits	4399	

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports	
48-5-0524	PREP SU D 01	GDA	55			Open site	Valid	Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0476	PREP SU I 01	GDA	55			Open site	Valid	Artefact :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0477	PREP SU I 02	GDA	55			Open site	Valid	Artefact :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0463	PREP SU F 05	GDA	55			Open site	Valid	Artefact :-			
	<u>Contact</u>	<u>Recorders</u>	ERM Australia Pty Ltd- Sydney CBD, Mr. Troy Hitchon, Ms. Lorien Perchard								<u>Permits</u>
48-5-0446	PEC-E-29	GDA	55			Open site	Valid	Artefact :-			
	<u>Contact</u>	<u>Recorders</u>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Elisa Scorsini								<u>Permits</u>
48-5-0450	PEC-E-33	GDA	55			Open site	Valid	Artefact :-			
	<u>Contact</u>	<u>Recorders</u>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Elisa Scorsini								<u>Permits</u>
48-5-0202	Mungadal Scar Tree 2	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) :-			
	<u>Contact</u>	<u>Recorders</u>	Mr. Peter Ingram								<u>Permits</u>
48-5-0197	Mungadal Scar Tree 5	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) :-			
	<u>Contact</u>	<u>Recorders</u>	Mr. Peter Ingram								<u>Permits</u>
48-5-0562	PREP SU C 12	GDA	55			Open site	Valid	Artefact :-, Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0549	PREP SU D 09	GDA	55			Open site	Valid	Artefact :-, Hearth :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0475	PREP SU H 05	GDA	55			Open site	Valid	Artefact :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0466	PREP Solar 03	GDA	55			Open site	Valid	Hearth :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0465	PREP Solar 02	GDA	55			Open site	Valid	Artefact :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0485	PREP SU F 04	GDA	55			Open site	Valid	Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0467	PREP Solar 04	GDA	55			Open site	Valid	Artefact :-			

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>								
48-5-0447	PEC-E-30	GDA	55			Open site	Valid	Artefact : -, Hearth : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0198	Mungadal Scar Tree 7	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) :		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0471	PREP Solar 08	GDA	55			Open site	Valid	Artefact : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0203	Mungadal Scar Tree 1	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) :		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0200	Mungadal Scar Tree 8	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) :		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0563	PREP SU C 11	GDA	55			Open site	Valid	Artefact : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0546	PREP SU D 06	GDA	55			Open site	Valid	Artefact : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0445	PEC-E-28	GDA	55			Open site	Valid	Artefact : -, Hearth : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0425	RV_IF_007	GDA	55			Open site	Valid	Artefact : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0349	RV_IF_006	GDA	55			Open site	Valid	Artefact : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0409	RV_AFT_004	GDA	55			Open site	Partially Destroyed	Artefact : -		<u>Permits</u> 4399
	<u>Contact</u>	<u>Recorders</u>								
48-5-0353	RV_IF_002	GDA	55			Open site	Destroyed	Artefact : -		<u>Permits</u> 4399
	<u>Contact</u>	<u>Recorders</u>								
48-5-0352	RV_IF_001	GDA	55			Open site	Valid	Artefact : -		<u>Permits</u> 4399
	<u>Contact</u>	<u>Recorders</u>								
48-5-0193	Rosevale midden 2	GDA	55			Open site	Valid	Hearth : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
48-5-0478	PREP SU I 03	GDA	55			Open site	Valid	Artefact : -, Hearth : -		<u>Permits</u>
	<u>Contact</u>	<u>Recorders</u>								
		<u>Recorders</u>								

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>	
48-5-0486	PREP SU G 01	GDA	55			Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison								<u>Permits</u>
48-5-0464	PREP Solar 01	GDA	55			Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison								<u>Permits</u>
48-5-0448	PEC-E-31	GDA	55			Open site	Valid	Artefact : -, Hearth : -			
	<u>Contact</u>	<u>Recorders</u>	Navin Officer Heritage Consultants Pty Ltd, Mrs.Elisa Scorsini								<u>Permits</u>
48-5-0470	PREP Solar 07	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison								<u>Permits</u>

**** Site Status**

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0498	PREP SU F 20	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0495	PREP SU F 17	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0436	PEC-E-19	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd, Mrs.Elisa Scorsini Permits							
48-5-0514	PREP SU E 09	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0437	PEC-E-20	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd, Mrs.Elisa Scorsini Permits							
48-5-0502	PREP SU F 24	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0533	PREP SU C 09	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0537	PREP SU E 13	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0503	PREP SU F 25	GDA	55			Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0440	PEC-E-23	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd, Mrs.Elisa Scorsini Permits							
48-5-0555	PREP SU D 05	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0497	PREP SU F 19	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0496	PREP SU F 18	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0561	PREP SU C 07	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0552	PREP SU A 01	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0438	PEC-E-21	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd, Mrs.Elisa Scorsini Permits							

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>	
48-5-0535	PREP SU C 16	GDA	55	██████	██████	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0518	PREP SU F 08	GDA	55	██████	██████	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0494	PREP SU F 16	GDA	55	██████	██████	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0507	PREP SU F 15	GDA	55	██████	██████	Open site	Valid	Artefact : -, Hearth : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0510	PREP SU D 04	GDA	55	██████	██████	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0553	PREP SU A 02	GDA	55	██████	██████	Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0344	LINK_IF_004	GDA	55	██████	██████	Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Mr. Matthew Barber, NGH Heritage - Fyshwick								<u>Permits</u> 4399
48-5-0517	PREP SU F 06	GDA	55	██████	██████	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0452	PEC-E-18	GDA	55	██████	██████	Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Elisa Scorsini								<u>Permits</u>
48-5-0513	PREP SU E 08	GDA	55	██████	██████	Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0501	PREP SU F 23	GDA	55	██████	██████	Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0509	PREP SU D 03	GDA	55	██████	██████	Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								<u>Permits</u>
48-5-0521	PREP SU F 12	GDA	55	██████	██████	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) :-			

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports	
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0551	Solar 10	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0519	PREP SU F 10	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0554	PREP SU B 01	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0540	PREP SU E 16	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0515	PREP SU E 10	GDA	55			Open site	Valid	Artefact : -, Hearth :-			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0505	PREP SU G 07	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0536	PREP SU E 12	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0523	PREP SU F 14	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0504	PREP SU G 06	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0500	PREP SU F 22	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0542	PREP SU C 08	GDA	55			Open site	Valid	Artefact : -, Hearth :-, Potential Archaeological Deposit (PAD) :-			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0499	PREP SU F 21	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0037	Test Pitting Area 6 (duplicate refer to 52-5-0410)	AGD	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Stuart Huys								Permits
48-5-0559	PREP SU C 05	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits
48-5-0558	PREP SU C 04	GDA	55			Open site	Valid	Artefact : -			
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss. Meghyn Mathison								Permits

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0557	PREP SU I 05	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0439	PEC-E-22	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd, Mrs.Elisa Scorsini Permits							
48-5-0534	PREP SU C 10	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0512	PREP SU E 07	GDA	55			Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0508	PREP SU C 01	GDA	55			Open site	Valid	Hearth : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0511	PREP SU E 06	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0538	PREP SU E 14	GDA	55			Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0539	PREP SU E 15	GDA	55			Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0560	PREP SU C 06	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0522	PREP SU F 13	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0520	PREP SU F 11	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0516	PREP SU E 11	GDA	55			Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0541	PREP SU E 17	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							
48-5-0550	Solar 09	GDA	55			Open site	Valid	Artefact : -		
	Contact	Recorders	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison Permits							

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
48-5-0556	PREP SU I 04	GDA	55	██████	██████	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison				<u>Permits</u>			
48-5-0506	PREP SU G 08	GDA	55	██████	██████	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Environmental Resources Management - Melbourne, Miss.Meghyn Mathison				<u>Permits</u>			

**** Site Status**
Valid - The site has been recorded and accepted onto the system as valid
Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.
Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground
Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified






APPENDIX J

ABORIGINAL HERITAGE SITE DETAILS

Previously Recorded AHIMS Sites

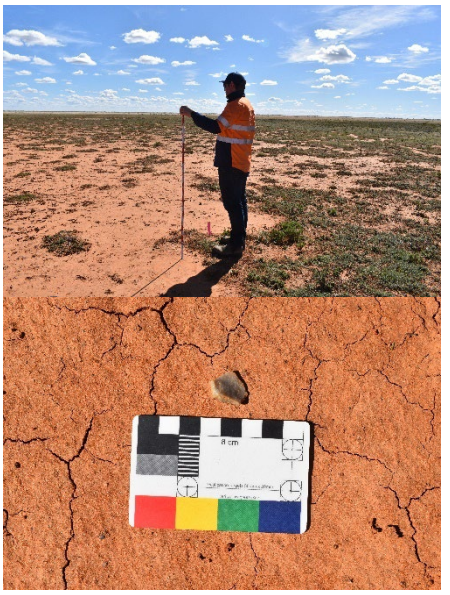

AHIMS Site ID	Name	Site Type	Notes	Photograph
Previously Recorded				
48-5-0193	Rosevale midden 2	Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0194	Rosevale midden 1	Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0412	RV_HTH_001	Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0408	RV_AFT_005	Artefact	Partially Destroyed; Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0409	RV_AFT_004	Artefact	Partially Destroyed; Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0410	RV_AFT_002	Artefact	Partially Destroyed; Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0344	LINK_IF_004	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0349	RV_IF_006	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0351	RV_IF_003	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0352	RV_IF_001	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0353	RV_IF_002	Artefact	Destroyed; Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0415	RV_Reburial_001	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0021	D-B#21;Booororban;	Modified Tree (Carved or Scarred), Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0037	Test Pitting Area 6 (duplicate refer to 52-5-0410)	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0425	RV_IF_007	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0195	Mungadal Scar Tree 4	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0196	Mungadal Hearth 1	Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0197	Mungadal Scar Tree 5	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0198	Mungadal Scar Tree 7	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0199	Mungadal Scar Tree 6	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0200	Mungadal Scar Tree 8	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0201	Mungadal Scar Tree 3	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0202	Mungadal Scar Tree 2	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0203	Mungadal Scar Tree 1	Modified Tree (Carved or Scarred)	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0411	RV_HTH_002	Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0404	RV_AFT_009	Artefact	Partially Destroyed; Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0405	RV_AFT_008	Artefact	Partially Destroyed; Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0406	RV_AFT_007	Artefact	Partially Destroyed; Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0407	RV_AFT_006	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0348	RV_IF_004	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0350	RV_IF_005	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0436	PEC-E-19	Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0437	PEC-E-20	Artefact, Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0438	PEC-E-21	Artefact	Within Solar Farm 100m Buffer	
48-5-0439	PEC-E-22	Artefact, Hearth	Within Solar Farm Footprint	
48-5-0440	PEC-E-23	Artefact	Within Solar Farm Footprint	
48-5-0441	PEC-E-24	Artefact, Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0442	PEC-E-25	Earth Mound	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0443	PEC-E-26	Earth Mound	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0444	PEC-E-27	Artefact, Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0445	PEC-E-28	Artefact, Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0446	PEC-E-29	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0447	PEC-E-30	Artefact, Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0448	PEC-E-31	Artefact, Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0449	PEC-E-32	Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0450	PEC-E-33	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0451	PEC-E-34	Artefact, Hearth	Outside of Wind Farm footprint	<i>Not revisited</i>
48-5-0452	PEC-E-18	Artefact	Outside of Wind Farm footprint	<i>Not revisited</i>



Newly Recorded Sites

AHIMS Site ID	Name	Site Type	Notes	Photograph
East Side of Cobb Highway				
48-5-0472	PREP SU C 02	Artefact	Low density artefact scatter (approx. 3-5 artefacts). Silcrete, quartz, quartzite.	
48-5-0473	PREP SU C 03	Artefact, Hearth, PAD	Artefact scatter; approx. 10 quartz, quartzite artefacts. Some glass appeared to be knapped. Two weathered hearths (one concentrated and one dispersed). Dimensions approx. 500 x 900 mm and 400 x 400 mm.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
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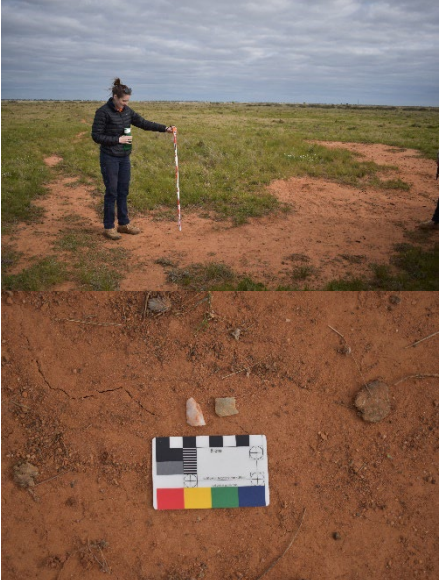
AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0563	PREP SU C 11	Artefact	Low density artefact scatter; approx. 2-3 silcrete flakes.	
48-5-0562	PREP SU C 12	Artefact; PAD	Silcrete and quartz flakes (approx. 10). Slight mound features/undulations present across site; artefacts eroding out of elevated vegetation.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0543	PREP SU C 13	Artefact; Hearth; PAD	Silcrete and quartz flakes (approx. 15-20). Small, weathered hearth eroding out of sand. Slight mound features/undulations present across site; artefacts eroding out of elevated vegetation.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0544	PREP SU C 14	Artefact	Isolated silcrete flake.	




AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0545	PREP SU C 15	Artefact	Isolated silcrete flake.	
48-5-0524	PREP SU D 01	PAD	Landform features indicating potential PAD (within a cleared area, high ground visibility).	



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0474	PREP SU D 02	Artefact	Silcrete and quartz flakes (approx. 5).	
48-5-0546	PREP SU D 06	Artefact	Isolated quartz flake.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0547	PREP SU D 07	Artefact	Low density artefact scatter (approx. 3-5); quartz and silcrete flakes.	


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0548	PREP SU D 08	Artefact; PAD	Artefact scatter (approx. 15-20) silcrete and quartz flakes.	
48-5-0549	PREP SU D 09	Artefact; Hearth	Medium density artefact scatter (approx. 20); silcrete and quartz flakes. One weathered hearth present eroding out of clay (approx. 1 x 0.7 m).	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0479	PREP SU E 01	Artefact	Isolated quartz flake piece.	

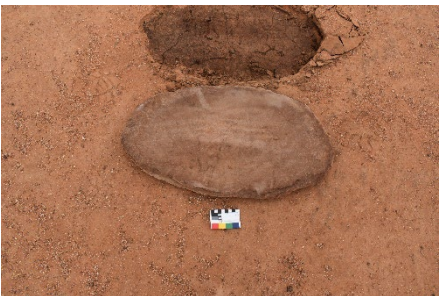
AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0480	PREP SU E 02	Artefact	Isolated chert flake.	
48-5-0481	PREP SU E 04	Artefact	Isolated silcrete flake.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0482	PREP SU E 05	Artefact	Low density artefact scatter (approx. 5). Quartz and silcrete.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0483	PREP SU F 01	Artefact, Hearth	Large artefact scatter (approx. 50). Silcrete, volcanic, chert, quartz flakes. Volcanic/basalt grinding dish and muller present. Two dispersed circular hearths (each approx. 1 x 1 m), present approx. 1.5 m apart.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0484	PREP SU F 02	Artefact	Isolated silcrete flake piece.	
48-5-0485	PREP SU F 04	Artefact; PAD	PAD and artefact scatter (approx. 100 x 100 m); flakes, grinding stone (muller) and dish, scraper. Crystal quartz, silcrete, chert, quartz. Approx 50-100 artefacts.	


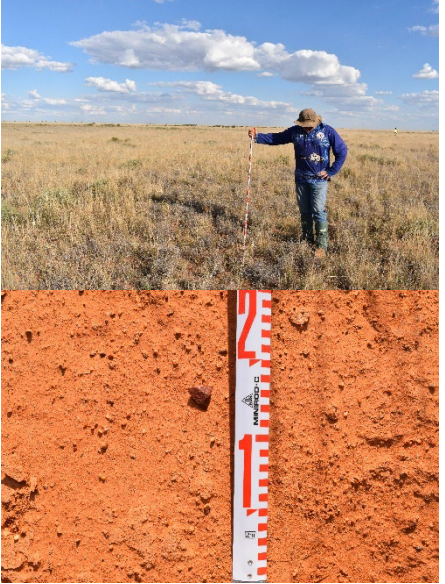
AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0463	PREP SU F 05	Artefact	Large in-tact sandstone grinding dish, lower slab (615 mm x 320 mm x 50 mm). Two elongated depressions in stone for grinding (approx. 2 cm deep).	


AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0486	PREP SU G 01	Hearth	Dense area of approx. 10 x 10 m of weathered clay balls. No artefacts on surface.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0487	PREP SU G 02	Artefact	Low density artefact scatter (approx. 5); quartz and silcrete.	 <p>The photograph for site 48-5-0487 consists of two images. The top image is a wide-angle shot of a person in an orange shirt standing in a flat, open field under a blue sky with scattered white clouds. The bottom image is a close-up of a reddish-brown rock on the ground, surrounded by dry twigs and soil. A white scale bar with a 'cm' label and a circular logo is visible in the bottom right corner of this image.</p>
48-5-0488	PREP SU G 03	Artefact	Artefact scatter (approx. 5). Possible hearth/mound feature. Historic bricks, metal nails and glass in area.	 <p>The photograph for site 48-5-0488 is a wide-angle shot of a person in an orange shirt standing in a field with sparse, dry vegetation. The sky is clear and blue.</p>

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0489	PREP SU G 04	Artefact	Isolated quartz flake.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0490	PREP SU G 05	Artefact	Artefact scatter; silcrete and quartz. Historic brick, glass and metal in area.	
48-5-0491	PREP SU H 01	Artefact	Isolated silcrete flake. Isolated fragments of burnt clay. Possible PAD.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0492	PREP SU H 02	Artefact	Isolated artefact; silcrete.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0493	PREP SU H 03	Artefact; Hearth	Artefact scatter (approx. 70); quartzite, silcrete, quartz flakes. Volcanic grinding dish pieces. Dense small, weathered clay hearth.	 The photograph column contains three images. The top image shows a wide view of a red dirt area with a person in a yellow shirt and blue pants standing in the distance, holding a measuring tape. The middle image is a close-up of the red dirt area with a measuring tape and some sparse vegetation. The bottom image is a close-up of three rock artifacts (two larger, one smaller) on the red dirt, with a scale bar and a compass rose in the foreground.

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0475	PREP SU H 05	Artefact	Isolated silcrete flake.	
48-5-0476	PREP SU I 01	Artefact	Isolated silcrete artefact.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
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48-5-0477



PREP
SU I 02



Artefact



Isolated silcrete artefact.


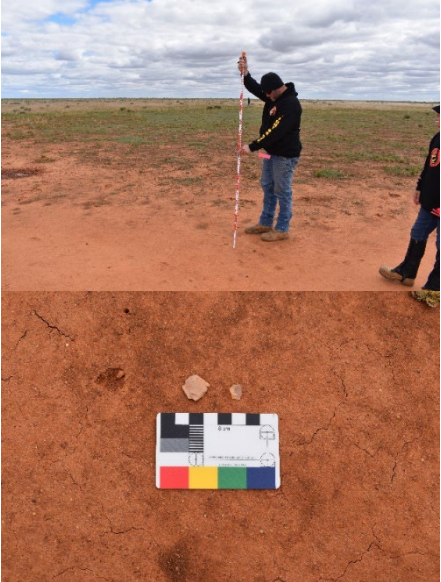




AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0478	PREP SU I 03	Artefact, Hearth	Weathered hearth, circular concentration. Artefact scatter surrounding the area.	


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0464	PREP SOLAR 01	Artefact	Artefact scatter across a scour of red sand. Approximately 5 quartz and silcrete flakes. Approx. 80% ground visibility.	 <p>The photograph for site 48-5-0464 is a composite image. The top portion shows a person wearing an orange high-visibility shirt and dark pants standing on a wide, flat expanse of reddish-brown sand. The sky is blue with scattered white clouds. The bottom portion is a close-up of the ground, showing two small, light-colored, irregularly shaped artefacts resting on the red sand. A metric scale bar is placed below the artefacts for size reference, with markings for 0, 2, 4, and 6 centimeters.</p>
48-5-0465	PREP SOLAR 02	Artefact	Artefact scatter comprising approximately 20 silcrete, volcanic and quartz flakes. Approx. 40% ground visibility across the site.	 <p>The photograph for site 48-5-0465 shows a person standing in a large, open field. The ground is a mix of reddish-brown sand and sparse green grass. The person is wearing a dark jacket and blue jeans, and is pointing towards the horizon. The sky is overcast with grey clouds.</p>



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0466	PREP SOLAR 03	Artefact, Hearth	<p>Artefact scatter and hearth present across a scour of red sand. Artefacts were present within the hearth and in the surrounding area. Quartz and silcrete flakes. Large pieces of raw material (silcrete and quartz) were also identified at the site. The site is also a potential PAD due to the slightly raised land surrounding the red sand depression. Approx. 70% across the site.</p>	



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0467	PREP SOLAR 04	Artefact, PAD	Artefact scatter comprising over 50 blades and flakes. Quartz, silcrete, chert, crystal quartz and volcanic material types were identified. The site is also a potential PAD. Overall, the visibility was approximately 30%.	
48-5-0468	PREP SOLAR 05	Artefact	Isolated volcanic (hornfels) flake. It was present within an area of exposed red sand (80% ground visibility).	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0469	PREP SOLAR 06	Artefact	Artefact scatter within area of exposed red sand. Approximately 10 artefacts were identified, with silcrete, quartzite and crystal quartz material types noted. Approximately 70% ground visibility.	


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0470	PREP SOLAR 07	Artefact, PAD	Artefact scatter and PAD present with an exposed scour of red sand. Approximately 50 artefacts were identified of silcrete, quartz and quartzite material types. The ground visibility of the site was 90%.	
48-5-0471	PREP SOLAR 08	Artefact	Isolated quartz flake, located along a linear access track/former fence line/drainage ditch. The ground visibility of the site was approximately 50%.	

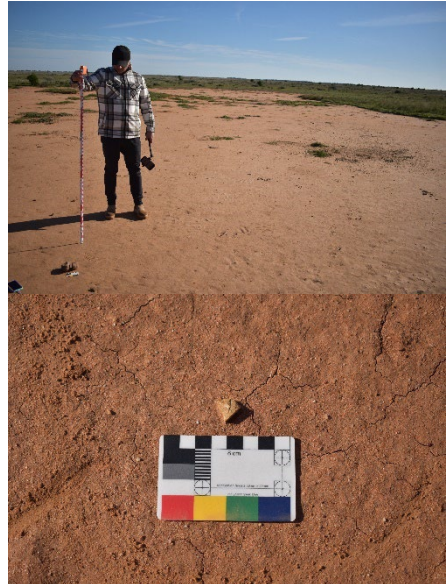

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0552	PREP SU A 01	Artefact; PAD	Silcrete flakes (approx. 5-10). Artefacts eroding out of slight mound features and elevated vegetation.	 <p>The photograph column contains two images. The top image shows a person in a hat and jacket standing in a field, holding a surveying pole. The bottom image is a close-up of red soil with several silcrete flakes and a scale bar.</p>

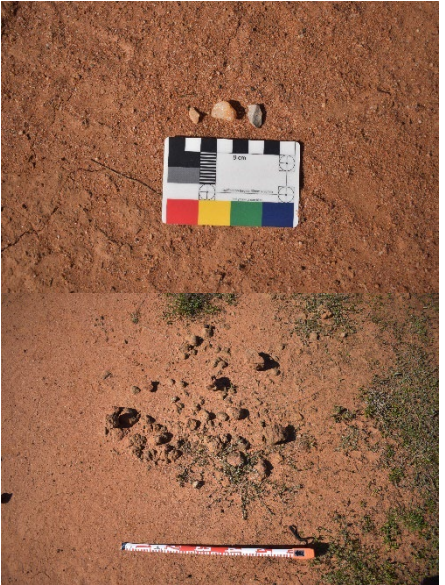

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0553	PREP SU A 02	Artefact	Silcrete and quartz flakes (approx. 10).	 <p>The top photograph shows a person in a dark jacket and pants standing in a flat, open field under a clear blue sky. They are holding a red and white measuring pole vertically. The ground is a mix of brown soil and light-colored silcrete. The bottom photograph is a close-up of a silcrete artefact, which is a small, irregularly shaped object with a light brown, textured surface. A color calibration chart with various colored squares and a ruler is placed next to it for scale.</p>
48-5-0554	PREP SU B 01	Artefact; PAD	Silcrete and quartz flakes (approx. 5). Artefacts eroding out of elevated vegetation (slight mound features).	 <p>The photograph shows a person in a dark jacket and pants standing on a small, raised mound of reddish-brown soil. The person is holding a red and white measuring pole. The mound is surrounded by sparse, low-lying vegetation and grass. The background shows a flat landscape under a clear blue sky.</p>

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0508	PREP SU C 01	Hearth	Weathered hearth (approx. 500 x 500 mm), and background scatter of burnt clay.	 


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0558	PREP SU C 04	Artefact	Silcrete flakes (approx. 2).	 <p>The top photograph shows a person standing in a field of low-lying vegetation, holding a measuring pole vertically. The ground is reddish-brown soil. The bottom photograph is a close-up of the soil surface, showing two small, light-colored silcrete flakes. A color calibration chart is placed next to the flakes for scale and color reference.</p>
48-5-0559	PREP SU C 05	Artefact	Quartz and silcrete flakes (approx. 5). Raw material (basalt) also present.	 <p>The photograph shows a person standing in a field of low-lying vegetation, holding a measuring pole vertically. The ground is reddish-brown soil. The background shows a flat landscape under a clear blue sky.</p>

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0560	PREP SU C 06	Artefact	Isolated quartz flake.	

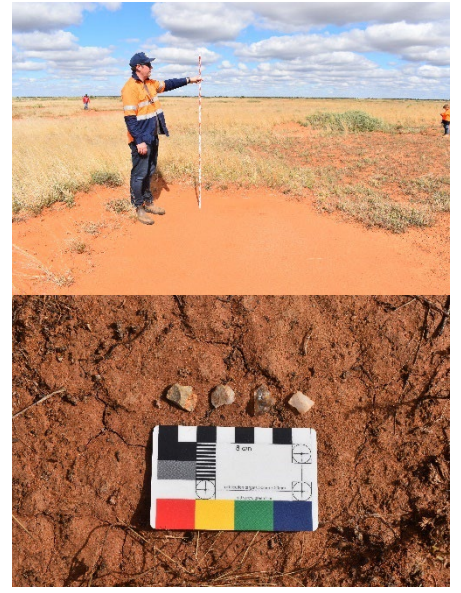

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0561	PREP SU C 07	Artefact	Isolated silcrete flake.	
48-5-0542	PREP SU C 08	Artefact; Hearth; PAD	Artefact scatter (approx. 10); silcrete and quartz flakes, as well as quartz debitage. Artefacts present in areas of exposed red sand; eroding out of elevated vegetation. Three concentrated, weathered clay hearths (approx. 1.5 x 1 m; 0.7 x 0.8 m and 0.5 x 0.5 m) were present in close proximity to one another.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0533	PREP SU C 09	Artefact	Low density artefact scatter (approx. 5-10); silcrete and quartz flakes.	


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0534	PREP SU C 10	Artefact	Isolated silcrete flake; weathered.	 <p>The photograph column contains two images. The top image is a wide shot of a person standing in a field of reddish-brown soil, with a windmill visible in the background under a blue sky. The bottom image is a close-up of a silcrete flake on the ground, with a 5cm scale bar placed next to it for reference.</p>

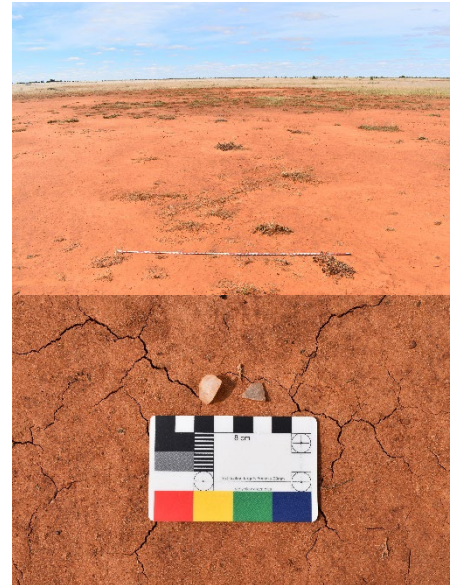

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0535	PREP SU C 16	Artefact; Hearth; PAD	Low density artefact scatter (approx. 2-3); quartz and silcrete flakes. A weathered clay hearth was also present, eroding out of sand (approx. 400 x 300 mm). Potential PAD; slightly elevated vegetation across site.	


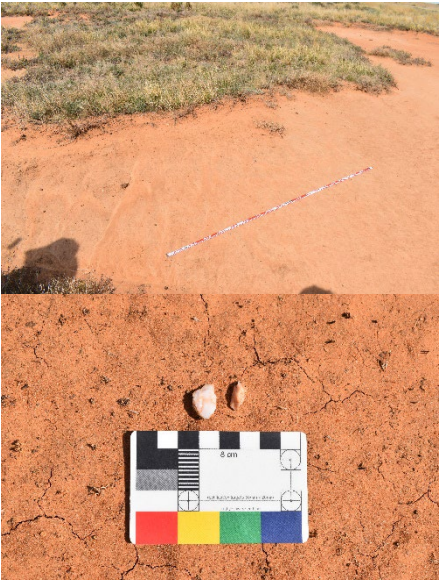
AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0509	PREP SU D 03	Artefact	Low density artefact scatter (approx. 5). Silcrete, quartz flakes and one core piece. Some fragments of bone (faunal).	 The photograph column contains three vertically stacked images. The top image is a wide-angle shot of a flat, sandy landscape under a cloudy sky, with a few people visible in the distance. The middle image is a close-up of a light-colored, irregular rock artefact resting on reddish-brown, cracked soil, with a color calibration chart and a scale bar placed next to it. The bottom image is another close-up, showing several small, white, bone-like fragments on the same cracked soil, also accompanied by a color calibration chart and a scale bar.


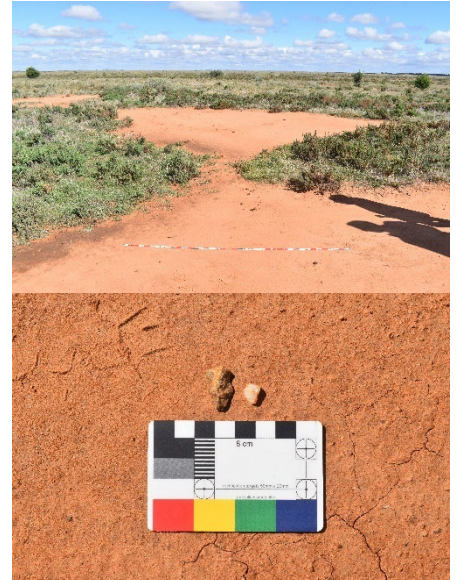
AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0510	PREP SU D 04	Artefact, PAD; Hearth	High density artefact scatter (approx. 500-1000 artefacts). Quartz, silcrete, chert and volcanic. Burnt clay balls; potential weathered hearth within PAD area (approx. 600 x 500 m).	
48-5-0555	PREP SU D 05	Artefact	Isolated silcrete flake (broken).	

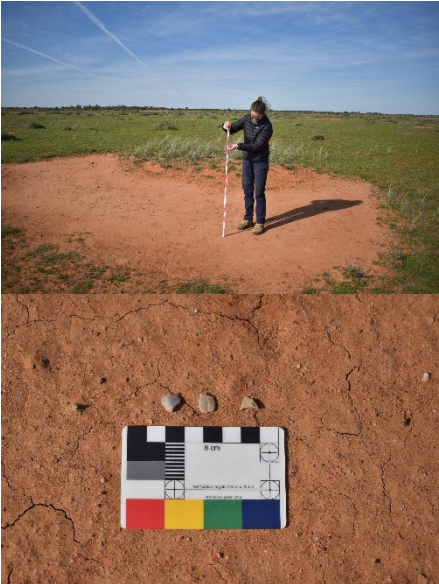

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0511	PREP SU E 06	Artefact, PAD	Quartz and silcrete flakes, basalt grinding muller (approx. 5-10 artefacts). Burnt clay balls. Large PAD (approx. 200 x 50 m).	




AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0512	PREP SU E 07	Artefact, Hearth	Two hearths (one concentrated and one weathered, approx. 500 x 500 mm and 100 x 200 mm). Artefact scatter (approx. 5-10); quartz and silcrete flakes.	


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0513	PREP SU E 08	Artefact	Low density artefact scatter (approx. 5); quartz and quartzite flakes.	
48-5-0514	PREP SU E 09	Artefact	Isolated silcrete flake and two angular quartz fragments.	

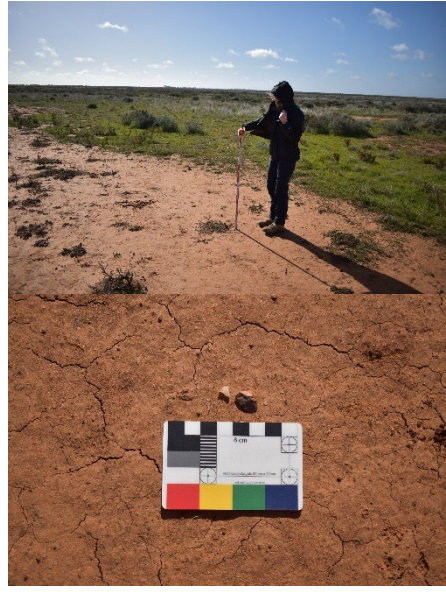

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0515	PREP SU E 10	Artefact, Hearth	Small, weathered hearth (approx. 10 x 10 cm). Low density artefact scatter (approx. 5-10); silcrete and quartz.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0516	PREP SU E 11	Artefact, PAD	Low density artefact scatter (approx. 5); quartz and silcrete. PAD (approx. 50 x 50 m).	


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0536	PREP SU E 12	Artefact	Low density artefact scatter (approx. 5-10); silcrete and quartz flakes.	
48-5-0537	PREP SU E 13	Artefact	Artefact scatter (approx. 15-20); silcrete flakes.	

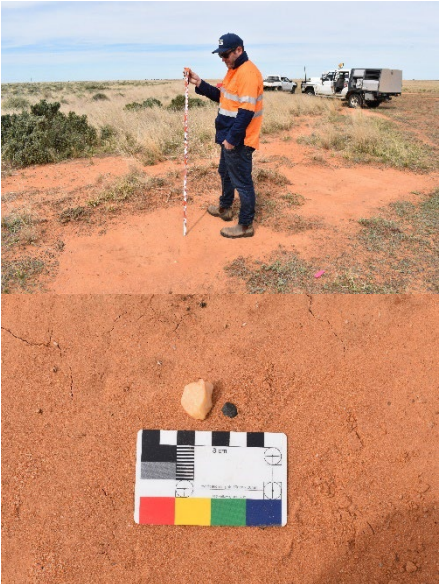

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0538	PREP SU E 14	Artefact; Hearth; PAD	Medium density artefact scatter (approx. 50); silcrete flakes and quartz debitage. Four concentrated, weathered clay hearths present across site in patches of exposed red sand. Slight mound features present across site; artefacts eroding out of elevated vegetation.	  



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0539	PREP SU E 15	Culturally Modified Tree	Species: Eucalyptus. Shield shaped scar. North-facing. Width inside scar: 45-50 cm. Length inside face: 80 cm. Depth of scar: 10 cm. Height of scar above ground: 1 m. Diameter of tree: 1 m. Circumference: 3.14 m. Tree height approx. 20 m. Condition of scar: Good. Condition of Tree: Fair.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0540	PREP SU E 16	Artefact	Low density artefact scatter (approx. 5); silcrete and quartz flakes.	
48-5-0541	PREP SU E 17	Artefact	Isolated silcrete flake.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0517	PREP SU F 06	Artefact, Hearth, PAD	Weathered hearth. PAD (extent approx. 50 x 50 m). Artefact scatter (approx. 2); quartz and silcrete flakes.	

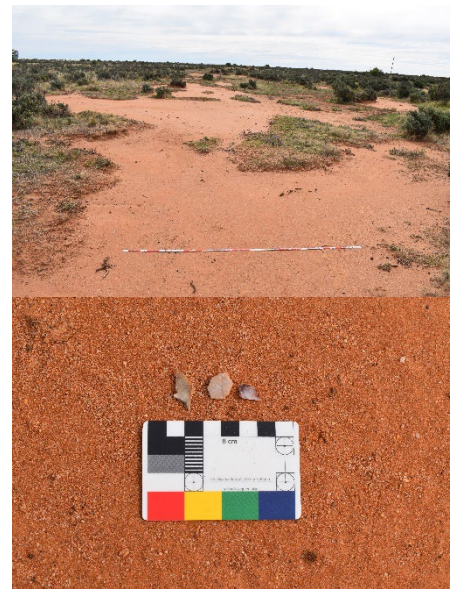

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0518	PREP SU F 08	Artefact, PAD	Artefact scatter (approx. 5-10); silcrete, volcanic, sandstone and quartz artefacts. Grinding stone piece with use wear evident. Burnt clay eroding out of elevated vegetation. Small pieces of shell and burnt bones and one animal tooth. Pieces of metal and glass present (historic disturbances).	


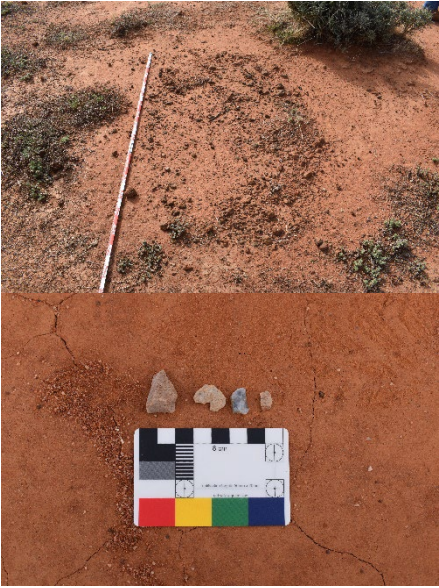
AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0519	PREP SU F 10	Artefact	Low density artefact scatter (approx. 3); silcrete, quartz and volcanic.	
48-5-0520	PREP SU F 11	Artefact, PAD	Artefact scatter (approx. 5-10); silcrete and quartz. Potential PAD (approx. 200 x 200 m). Historic glass bottle and cement fragments (culvert) in area (disturbance).	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0521	PREP SU F 12	Artefact, Hearth, PAD	Artefact scatter (approx. 5-10); silcrete and quartz flakes. Granite grinding stone (bottom) and muller. Two concentrated, clay hearths. Potential PAD (approx. 100 x 100 m).	

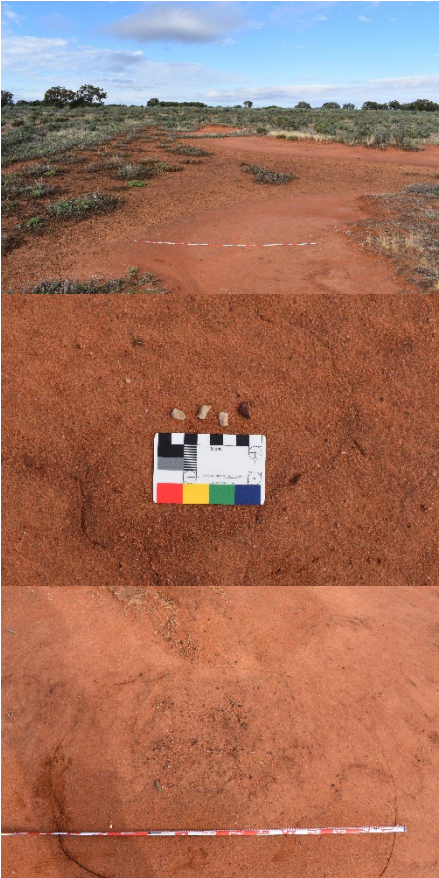
AHIMS Site ID	Name	Site Type	Notes	Photograph
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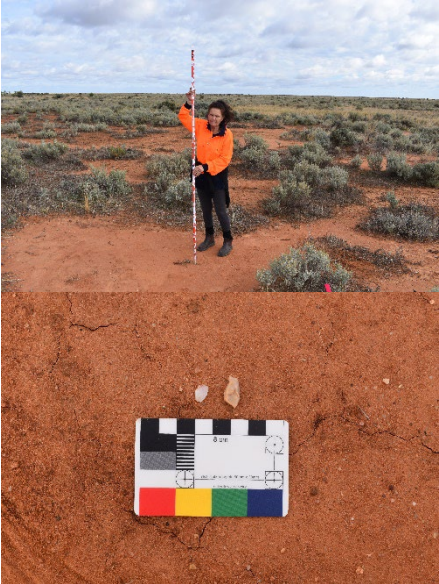



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0522	PREP SU F 13	Artefact	Artefact scatter (approx. 10); silcrete and quartz flakes. Burnt clay in area.	
48-5-0523	PREP SU F 14	Artefact	Low density artefact scatter (approx. 2); silcrete. Burnt clay in area.	

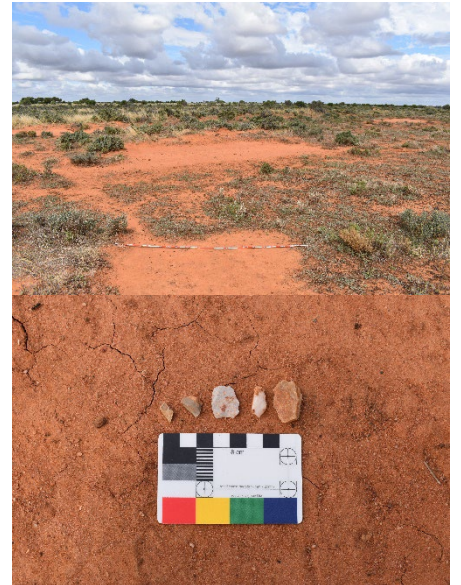

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0507	PREP SU F 15	Artefact, Hearth	Concentrated circular hearth (approx. 1.6 x 1 m). Artefact scatter (approx. 5); quartz and silcrete.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0494	PREP SU F 16	Artefact, PAD	High density artefact scatter (approx. 5-70 artefacts); quartz, quartzite and silcrete. Large PAD (100 x 100 m).	 <p>The photograph shows a wide, flat expanse of reddish-brown soil under an overcast sky. In the foreground, several light-colored, angular stone artefacts are laid out on the ground. A white scale bar with black markings and a color calibration strip is placed next to the artefacts for size reference.</p>
48-5-0495	PREP SU F 17	Hearth	Weathered hearth, circular (approx. 110 x 90 cm).	 <p>The photograph shows a close-up view of the reddish-brown soil. A circular, weathered hearth is visible, characterized by a darker, more textured area of soil. A red and white striped caution tape is stretched across the bottom of the frame.</p>

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0496	PREP SU F 18	Artefact, Hearth	Weathered hearth (approx. 600 x 700 mm). Artefact scatter (approx. 10-20); quartz, silcrete, quartzite.	


AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0497	PREP SU F 19	Artefact	Low density artefact scatter (approx. 2); quartz flakes.	 <p>The top photograph shows a person in an orange high-visibility shirt and dark pants standing in a field of red soil and sparse vegetation, holding a measuring pole. The bottom photograph is a close-up of a reddish-brown soil surface with a small, light-colored silcrete flake and a color calibration chart for scale.</p>
48-5-0498	PREP SU F 20	Artefact	Isolated silcrete flake.	 <p>The photograph shows a person in an orange high-visibility shirt and dark pants standing in a field of red soil and sparse vegetation, holding a measuring pole. The background shows a flat landscape under a cloudy sky.</p>

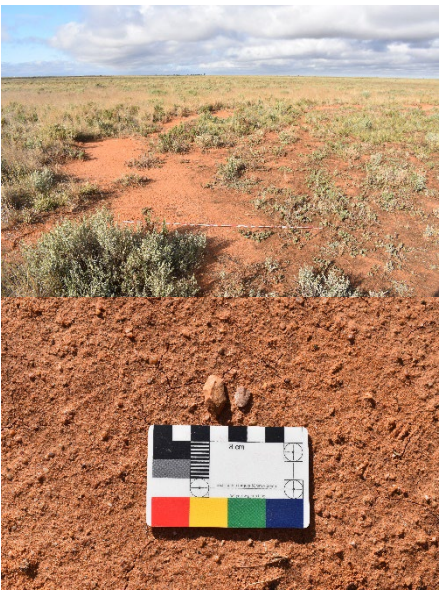

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0499	PREP SU F 21	Artefact	Artefact scatter (approx. 10); quartz and silcrete flakes.	




AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0500	PREP SU F 22	Artefact	High density artefact scatter (approx. 50); quartz and silcrete flakes. Some weathered hearths in area.	
48-5-0501	PREP SU F 23	Artefact	Artefact scatter (approx. 5-10); quartz, silcrete, quartzite.	



AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0502	PREP SU F 24	Artefact	Artefact scatter (approx. 10); silcrete, quartz and volcanic.	

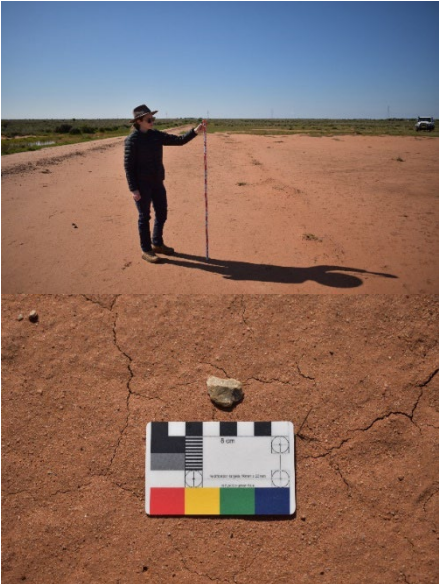
AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0503	PREP SU F 25	Artefact, Hearth, PAD	<p>Artefact scatter and hearths. Extent of site approx. 100 x 100m. Five concentrated hearths (each approx. 1 x 1 m) in exposed red clay. Four weathered hearths (ranging from 500 mm to 1000 mm) on edges of clay area (some eroding out of elevated vegetation). Artefact scatter (some in hearths) approx. 50-150 artefacts. Material types included quartz, quartzite, silcrete, chert/chalcedony. Potential PAD (slight rises and mounds across area). Small fragments of historic bricks present in area. Burnt clay (one piece with suspected finger/thumb impression). 100% ground visibility. Surrounding vegetation comprised ground creepers, grasses and small shrubby weeds. Some trees around perimeter.</p>	

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0504	PREP SU G 06	Artefact	Low density artefact scatter (approx. 5-10); silcrete.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0505	PREP SU G 07	Artefact, PAD	Artefact scatter; quartz and silcrete. PAD (approx. 50 x 50m)	 A photograph showing a wide, flat landscape with sparse, low-lying vegetation and reddish-brown soil. In the foreground, a color calibration chart is placed on the ground, and a small, light-colored object is visible next to it. The sky is blue with scattered white clouds.
48-5-0506	PREP SU G 08	Artefact	Isolated quartz flake.	 A photograph of a person standing in a field, holding a surveying pole. The person is wearing a dark jacket, a cap, and orange safety gear. The field is flat with sparse vegetation and reddish-brown soil. The sky is blue with scattered white clouds.

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0556	PREP SU I 04	Artefact	<p>Medium density artefact scatter (approx. 10-15); silcrete and quartz flakes. Potential grinding stone piece (sandstone muller) also present. Large pieces of burnt clay across the site.</p>	
48-5-0557	PREP SU I 05	Artefact	<p>Isolated silcrete flake.</p>	

AHIMS Site ID	Name	Site Type	Notes	Photograph
				
48-5-0550	PREP SOLAR 09	Artefact	Isolated and broken silcrete flake, located in an area of exposed red sand measuring approximately 50 x 50 m. The ground visibility of the site was 100%.	

AHIMS Site ID	Name	Site Type	Notes	Photograph
48-5-0551	PREP SOLAR 10	Artefact	Low density artefact scatter (approx. 5) located within red sandy scour adjacent to a drainage channel (containing standing water). Approximately 5 silcrete flakes. Approx 95% ground visibility.	 A photograph showing a person standing in a red sandy scour area. The person is holding a long pole. In the foreground, there is a silcrete flake on the ground next to a color calibration chart and a scale bar. The chart has a '5 cm' label. The background shows a drainage channel with standing water under a clear blue sky.



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