D.2 Amended Aboriginal cultural heritage assessment

Dinawan Solar Farm

Amended Aboriginal Cultural Heritage Assessment

Prepared for Spark Renewables

August 2024

Dinawan Solar Farm

Amended Aboriginal Cultural Heritage Assessment

Spark Renewables

E220305 RP1

August 2024

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Approved by

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Content warning and Acknowledgement of Country

Aboriginal and Torres Strait Islander peoples are advised that the following report may contain reference to, and images of, people who have died.

We would like to acknowledge and pay respects to the traditional owners of the Wiradjuri lands and smaller clans of the Murrumbidgee plains on which the project is proposed. We would like to thank all members of the Aboriginal community who generously gave their time and knowledge regarding the Aboriginal cultural heritage values associated with the project.

Executive summary

Spark Renewables Pty Limited (Spark Renewables) proposes to develop the Dinawan Solar Farm, a large-scale solar photovoltaic (PV) generation facility and battery energy storage system (BESS), supported by associated infrastructure (the project). The project is on the traditional lands of the Wiradjuri people and several smaller clans of the Murrumbidgee plains, about halfway between the towns of Coleambally and Jerilderie, and is located within the Murrumbidgee local government area (LGA) in New South Wales (NSW).

The project forms part of the Dinawan Energy Hub, a hybrid wind, solar and battery storage hub, and will connect to the Dinawan Substation which will be built by Transgrid as part of Project EnergyConnect. The project will have a generation capacity of up to approximately 800 megawatts alternating current (MW) (AC), equivalent to the needs of 300,000 NSW households per year. The BESS will have a capacity of up to approximately 300 MW (AC coupled) and will have provision for up to 2 hours of storage (600 MWh).

The project is State significant development (SSD) pursuant to schedule 1 of State Environmental Planning Policy (Planning Systems) 2021 (Planning Systems SEPP). Accordingly, approval for the project is required under Part 4, division 4.7 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act).

Since the public exhibition of the *Dinawan Solar Farm Environmental Impact Statement* (EIS) (EMM 2023), the development footprint has been reduced by approximately 28% to 1,792 hectares (ha). This includes the removal of large portions of the development footprint west of Kidman Way, as well as smaller areas adjacent to Kidman Way and Liddles Lane. These refinements are described in detail in the amendment report (AR).

This ACHA presents the findings of the Aboriginal community consultation, previous investigations regarding Aboriginal cultural and archaeological heritage values within the region and outcomes of physical investigations and ground-truthing within the study area. It provides information on the location, distribution and significance of Aboriginal objects identified within the study area and environs, the potential impacts to objects by the project and recommendations for the management of such impacts.

Spark Renewables and EMM have been liaising with six registered Aboriginal parties (RAP) and/or individuals since the commencement of this assessment in November 2022. These organisations have been identified through the formal notification as part of the Heritage NSW consultation requirements and/or through contacting the project following word of mouth within the local Aboriginal community. The RAPs include well-established Wiradjuri individuals and/or organisations based in Narrandera and Griffith, as well as Bangarang representatives from Shepparton, Victoria. Opportunity for Aboriginal involvement in consultation for the project was provided throughout the preparation of this ACHA, including:

- attendance at five face-to-face meetings during key phases of the project
- participation in an 11-day field survey of the study area
- participation in a 7-day archaeological test excavation program within the study area.

Ultimately, over 240 interactions have been undertaken with the RAPs across these opportunities. With five of the six organisations, Griffith LALC, Bundyi Aboriginal Cultural Knowledge, Bidya Marra Consultancy, Bangarang Aboriginal Corporation, and Roley Williams, participating in these opportunities and totalling over 18 days on site as part of field investigations.

The assessment undertook archaeological field survey and test excavations to explore and document the Aboriginal objects and sites within the development footprint, and to align them within the regional context. Overall, the findings of this ACHA largely conformed with the regional archaeological predictive model, with the exception of burial sites. While burial sites are known to occur in association with particular landforms and landscape features in the broader region, the study area does not exhibit the features in which this site type has been previously identified. The field investigations resulted in the identification of 35 previously undocumented Aboriginal sites/objects within or in proximity to the development footprint, including:

- eight artefact scatters
- seven hearths
- six isolated stone artefacts
- six culturally modified trees
- four hearths with artefact scatters
- three hearths with isolated artefacts
- one potential women's tree with an isolated artefact.

The development and refinement of the project's development footprint (i.e. the area within which direct surface disturbance will occur) has been iterative throughout the assessment process and has been informed by the findings of the ACHA as they have become available. Of the 35 identified Aboriginal objects/sites, project redesign has resulted in the avoidance of the majority (n=27) of these sites, including several sites of high cultural significance, such as a potential women's tree (DEHS-2023-WT1) and a hearth and artefact site including a possible oven mound and glass core (DEHS-2023-HAS2) (Table 8.2).

Eight sites remain within the development footprint, including:

- three artefact scatters of moderate significance (DEHS-2023-AS1, DEHS-2023-AS4 and DEHS-2023-AS2)
- three isolated stone artefacts of moderate significance (DEHS-2023-IF1, DEHS-2023-IF4 and DEHS-2023-IF6)
- one hearth of moderate significance (DEHS-2023-H4) – further investigation is required if direct impact occurs
- one hearth and artefact scatter of high significance (DEHS-2023-HAS4).

These sites will be subject to direct impacts including:

- the complete loss of value of seven Aboriginal sites (DEHS-2023-AS1, DEHS-2023-AS4, DEHS-2023-IF1, DEHS-2023-IF4, DEHS-2023-IF6, DEHS-2023-H4 and DEHS-2023-HAS4)
- the partial loss of value of one Aboriginal site (DEHS-2023-AS2).

Recommendations are proposed for inclusion in the project approval to minimise and mitigate impacts to cultural materials and to guide post-approval requirements for Aboriginal heritage. These include the development of an Aboriginal Cultural Heritage Management Plan (ACHMP) to provide the framework for Aboriginal heritage management during the construction and operation of the project, including guidance around additional archaeological investigations and a procedure for the recovery of cultural materials where further avoidance of identified sites is not possible.

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1 Introduction

1.1 Outline

Spark Renewables Pty Limited (Spark Renewables) proposes to develop the Dinawan Solar Farm, a large-scale solar photovoltaic (PV) generation facility and battery energy storage system (BESS), supported by associated infrastructure (the project). The project is on the traditional lands of the Wiradjuri people and several smaller clans of the Murrumbidgee plains, about halfway between the towns of Coleambally and Jerilderie, and is located within the Murrumbidgee local government area (LGA) in New South Wales (NSW). The regional and local context of the project is shown in Figure 1.1 and Figure 1.2, respectively.

The project forms part of the Dinawan Energy Hub, a hybrid wind, solar and battery storage hub. The project is within the South West Renewable Energy Zone (REZ), a region selected by the NSW Government due to its significant potential for renewable energy infrastructure and regional development. The project will connect to the Dinawan Substation, which will be built by Transgrid as part of the Project EnergyConnect interconnector that will run between Robertstown in South Australia and Wagga Wagga in NSW.

The main objective of the project is to generate renewable energy, consistent with NSW Government policy for development of infrastructure for renewable energy generation and storage and will significantly contribute to the target of 3.98 gigawatts (GW) of generation planned in the South West REZ. The project will have a generation capacity of up to approximately 800 megawatts alternating current (MW) (AC), equivalent to the needs of 300,000 NSW households per year. It will assist in meeting NSW and Australian Government emissions reduction targets and will abate approximately 1.5 million tonnes of greenhouse gases (GHG) annually. The BESS will have a capacity of up to approximately 300 MW (AC coupled) and will have provision for up to 2 hours of storage (600 MWh).

The project is State significant development (SSD) pursuant to schedule 1 of State Environmental Planning Policy (Planning Systems) 2021 (Planning Systems SEPP). Accordingly, approval for the project is required under part 4, division 4.7 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act).

Since the public exhibition of the *Dinawan Solar Farm Environmental Impact Statement* (EIS) (EMM 2023), the development footprint has been reduced by approximately 28% to 1,792 hectares (ha). This includes the removal of large portions of the development footprint west of Kidman Way, as well as smaller areas adjacent to Kidman Way and Liddles Lane. These refinements are described in detail in the amendment report (AR).

1.2 Project overview

A full project description is provided in Appendix A of the AR and an indicative project layout is shown in Figure 1.3. The project will comprise the following key components:

- approximately 2 million solar PV panels and associated infrastructure
- BESS and associate infrastructure
- electrical collection system, substations and control room
- transmission line infrastructure connecting the project substations to the Dinawan Substation
- operations and maintenance infrastructure
- temporary construction facilities (including a temporary worker accommodation facility)
- site access from Kidman Way and Bundure Road (including associated public road upgrades).

1.3 Project area

The amended project area is approximately 3,257 ha and encompasses 48 land parcels (Figure 1.3). The majority of the land within the amended project area is privately owned, and can be considered as two distinct areas, one to the west of Kidman Way and one to the east. The land within the amended project area is currently used for sheep and cattle grazing.

The landscape within the amended project area is largely flat, with some minor drainage depressions that hold water during rainfall and flooding. There are four first order watercourses and one second order watercourse mapped within the amended project area, all of which are ephemeral. This measure of stream order defines stream order based on hierarchy, whereby headwaters are 1st order streams versus rivers that would be 4th order streams. The Coleambally Irrigation Channel runs through the project area, east of Kidman Way (Figure 1.3).

Within the amended project area, the development footprint is expected to be around 1,792 ha (Figure 1.3). This assessment assumes that the entire development footprint will be disturbed. The development footprint has been refined through an iterative design process throughout the preparation of the EIS and AR and has been informed by the outcomes of community and stakeholder engagement and environmental, social and economic assessments.

Direct impacts for public road upgrade works are required on Kidman Way and Bundure Road (Figure 1.3) and will facilitate access to the development footprint. From the project access points, private internal roads will be used to traverse the development footprint.

The preferred point of connection to Transgrid's network is via the Dinawan Substation, which forms part of Project EnergyConnect and will be constructed on land adjacent to the amended project area. An overhead transmission line will connect the project's substations to the Dinawan Substation.

1.3.1 Terminology

A summary of the key terminology used throughout this assessment is provided below. A full list of abbreviated terms is provided in the Glossary of this report.

- **The study area** – served as the initial investigation area for the project, as shown in Figure 1.2.
- **The amended project area** – outlines the broader project boundary, as shown in Figure 1.2. This delineation is used to inform the schedule of land that forms part of the project.
- **The development footprint** – this delineates the maximum extent of ground surface that may be disturbed by the project, as shown in Figure 1.3, and was the focus of the field investigations. All ground disturbing activities will be contained within this boundary and, for the purposes of this assessment, includes the public road upgrades.

1.4 Purpose and scope of this report

This ACHA is an appendix to the AR and should be read in conjunction with it. It documents the results of archaeological and anthropological investigations undertaken to identify the extent and significance of any physical remains and intangible values of past Aboriginal visitation, use and occupation within the study area and development footprint. The objectives of the investigation were as follows:

- Consult with and involve key Aboriginal community members and knowledge holders to identify areas and places of cultural value within or in the vicinity of the study area.
- Compile a review of existing environmental, historical and archaeological information for the study area, by identifying and summarising known and previously recorded Aboriginal heritage places, cultural values areas and landforms of archaeological interest in its immediate surrounds.

- Determine if any Aboriginal objects, places, cultural values areas, or areas of archaeological potential are present (or are likely to be present) within the study area and development footprint, as well as areas of existing disturbance, through ground-truthing, including field survey and test excavations.
- Identify the type, nature, and extent of any Aboriginal sites, objects, archaeological deposits, potential archaeological deposits, and cultural values areas within or near the amended project area.
- Map the locations of known and potential Aboriginal sites, objects and deposits and cultural values areas identified.
- Assess the archaeological and cultural significance of the amended project area.
- Assess and identify heritage constraints and opportunities and the potential impacts of the project.
- Identify and recommend measures to mitigate any heritage impacts and risks to the project.

1.5 Legislative context

Commonwealth and State Acts (and associated regulations) that manage and protect Aboriginal cultural heritage are summarised in Table 1.1 (Annexure A provides further details).

Table 1.1 Commonwealth and State legislation with potential relevance to the project

Legislation	Description	Relevant to the project?	Details
Commonwealth			
Environment Protection and Biodiversity Conservation Act 1999	Recognises sites with universal value on the World Heritage List (WHL). Protects Indigenous heritage places with outstanding heritage value to the nation on the National Heritage List (NHL), and significant heritage value on the Commonwealth Heritage List (CHL).	No	There are no Indigenous heritage places within the amended project area that are listed on the WHL, NHL, or the CHL.
Native Title Act 1993	Established a system for recognising Aboriginal and Torres Strait Islander peoples' rights and interests over lands and waters by Aboriginal people. Provides for negotiation and registration of Indigenous Land Use Agreements (ILUAs). Often used in NSW to identify relevant stakeholders for consultation.	No	A request to search the National Native Title Tribunal was made on 23 November 2022. There are no active Native Title claims which interact with the amended project area.
Aboriginal and Torres Strait Islander Heritage Protection Act 1984	Preserves and protects declared areas and objects of particular significance to Aboriginal and Torres Strait Islander people that are under threat from injury or desecration.	No	There are no areas or objects within the amended project area subject to a Declaration under the Act.

Table 1.1 Commonwealth and State legislation with potential relevance to the project

Legislation	Description	Relevant to the project?	Details
State			
Environmental Planning and Assessment Act 1979	Requires environmental impacts, including to Aboriginal heritage, to be considered in land use planning. Provides for the development of environmental planning instruments, including State Environmental Planning Policies and Local Environmental Plans.	Yes	The project is being assessed as SSD under Part 4, Division 4.7, of this Act, and is subject to project-specific environmental assessment and reporting requirements. These requirements (SEARs) stipulate that an Aboriginal heritage impact assessment is required (in accordance with standard Heritage NSW procedures and guidelines) to assess whether the project has the potential to impact on Aboriginal objects, sites, or places of Aboriginal heritage significance.
National Parks and Wildlife Act 1974	Provides blanket protection for all Aboriginal objects and declared Aboriginal places. Includes processes and mechanisms for development where Aboriginal objects are present, or where Aboriginal Places are proposed for harm.	Yes	The NPW Act would generally remain in force for the project in relation to the discovery, impact notification and care of Aboriginal objects in NSW. However, as the project is classed as SSD, an Aboriginal heritage impact permit (AHIP) is not required to permit harm to tangible Aboriginal cultural heritage where project approval is granted. Instead, an approved management plan would manage relevant Aboriginal cultural heritage sites and heritage values.
Aboriginal Land Rights Act 1983	Establishes Local Aboriginal Land Councils (LALCs). Allows transfer of ownership of vacant Crown land to a LALC. The Office of the Registrar, *Aboriginal Land Rights Act 1983* (ORALRA), registers Aboriginal land claims and maintains the Register of Aboriginal Owners. Often used in NSW to identify relevant stakeholders for consultation.	No	The amended project area is within the boundaries of the Griffith Local Aboriginal Land Council, which is a registered Aboriginal party (RAP) for this project. The amended project area also extends into the Cummeragunja Local Aboriginal Land Council; however, they did not register for the project stating it was outside their area (Annexure B.1). A request to search the Register of Aboriginal Owners was made to the ORALRA on 23 November 2022. The amended project area does not appear to have Registered Aboriginal Owners pursuant to Division 3 of the Act.

1.6 Assessment guidelines and requirements

This assessment has been prepared in accordance with the requirements of the NSW Department of Planning and Environment (DPE) which were set out in the Planning Secretary's Environmental Assessment Requirements (SEARs) for the project, issued on 14 December 2022. The SEARs identify matters which must be addressed in the EIS. Table 1.2 lists the matters relevant to this assessment and where they are addressed in the report.

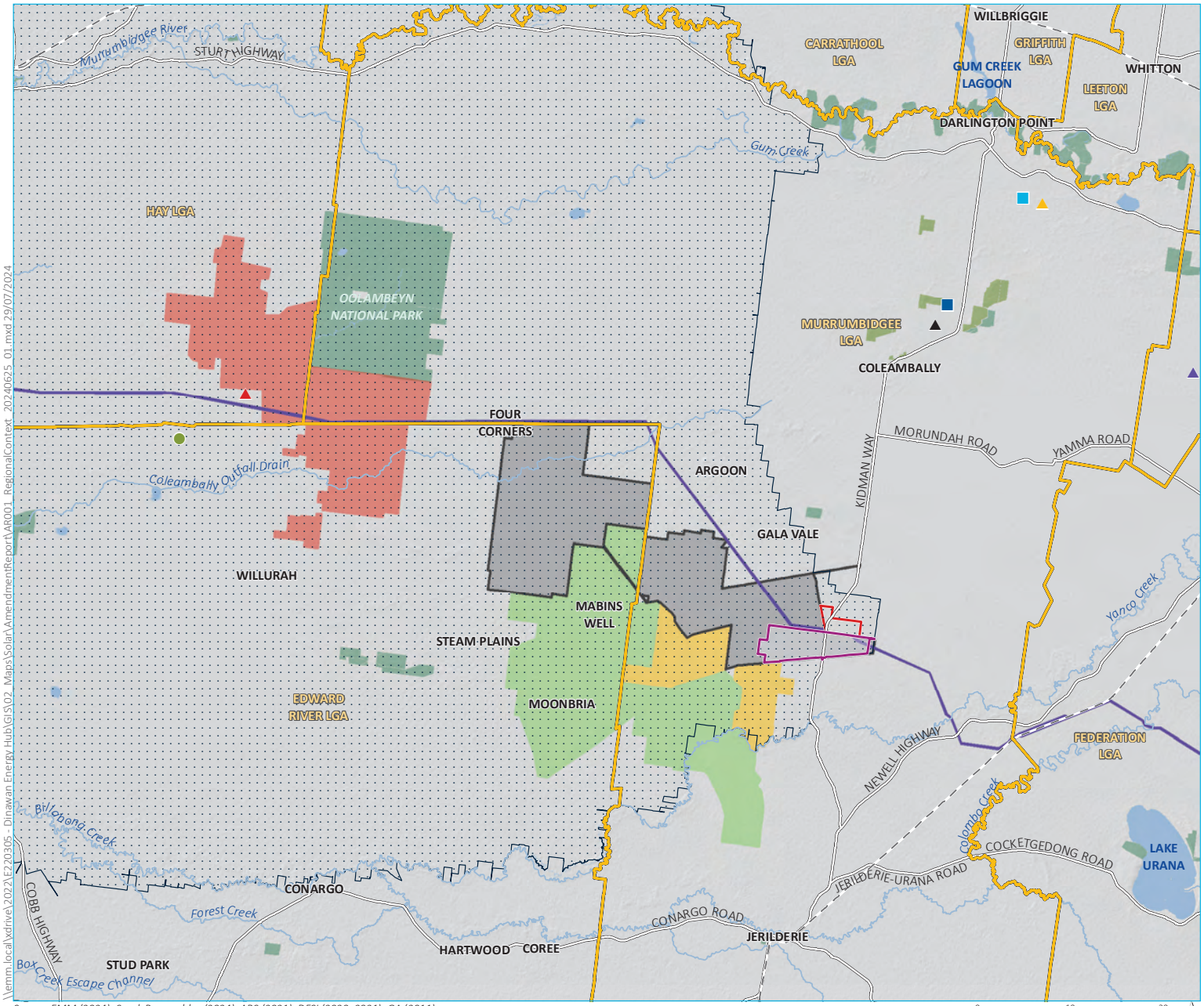
Table 1.2 Relevant matters raised in the SEARs

Requirement	Section addressed
Heritage – including:	
• An assessment of the impact to Aboriginal cultural heritage items (cultural and archaeological) 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).	Entire report, and specifically Chapters 6, 9, and Annexure E.
• 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).	Chapter 2 and Annexure B.
• Assess the impact to historic heritage having regard to the NSW Heritage Manual.	Appendix E.3 of the EIS.

1.7 Limitations

This report is based on existing and publicly available environmental and archaeological information (including data from the Aboriginal Heritage Information Management System (AHIMS)) and reports about the study area. The background research did not include any independent verification of the results and interpretations of externally sourced existing reports (except where the ground-truthing was undertaken). The report further makes archaeological predictions based on these existing data and targeted ground-truthing, and that may contain errors depending on the accuracy of these third-party studies and the extent of ground-truthing investigations.

This report does not consider historical and/or built heritage unless specifically related to Aboriginal heritage values. Such heritage items are addressed in the Statement of Heritage Impact (SOHI) appended to the EIS (refer Appendix E.3 of the EIS).



Source: EMM (2024); Spark Renewables (2024); ABS (2021); DFSI (2020, 2021); GA (2011)

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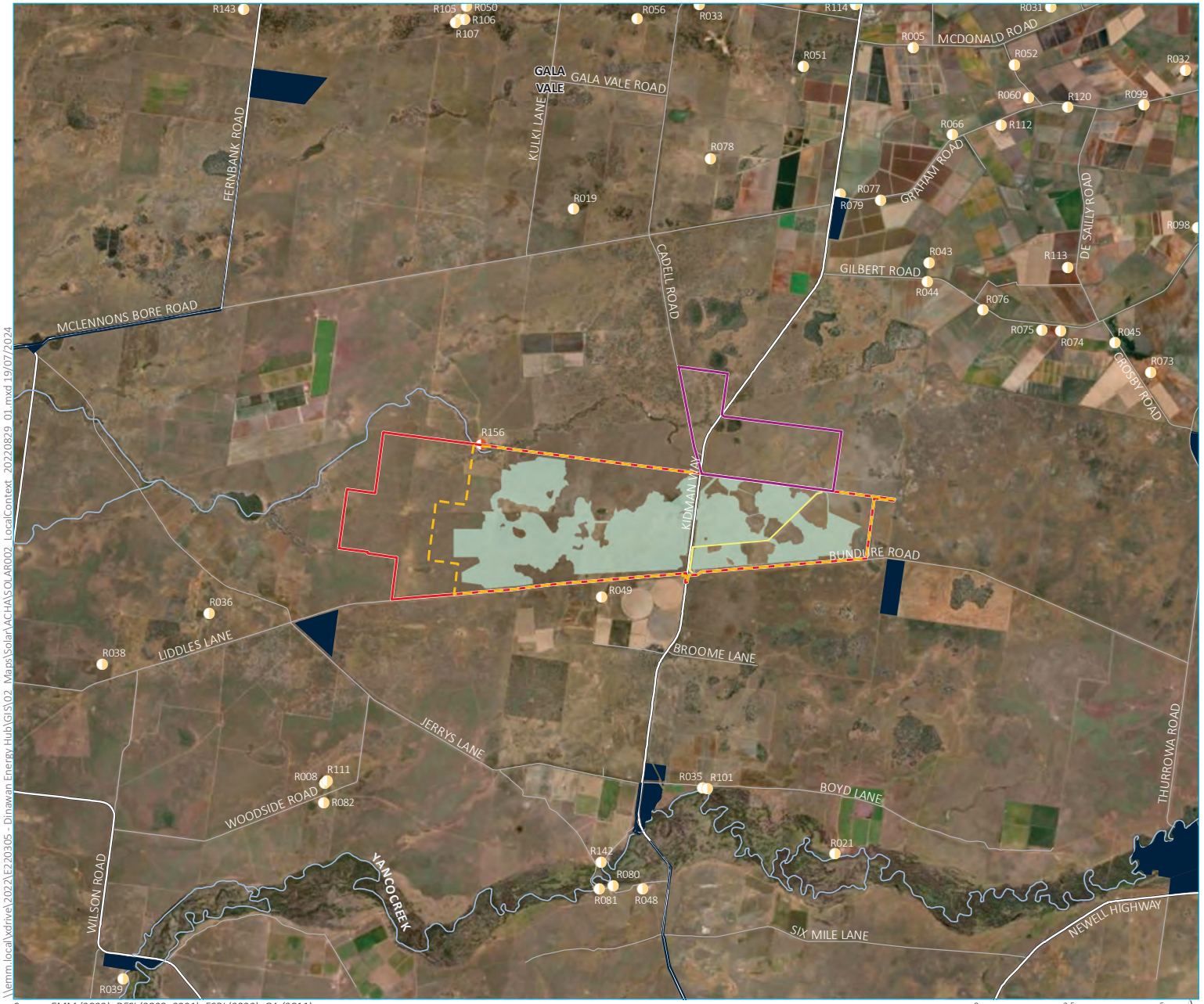
Regional context

Dinawan Solar Farm
Amendment Report
Figure 1.1

EMM
creating opportunities



KEY

- Study area
- Amended project area
- Development footprint

Project EnergyConnect (Transgrid)

- Dinawan Substation

Residence

- Associated residence
- Non-associated residence

Existing environment

- Watercourse (third order and higher)
- Major road
- Minor road
- Travelling stock reserves
- Coleambally irrigation channel

Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

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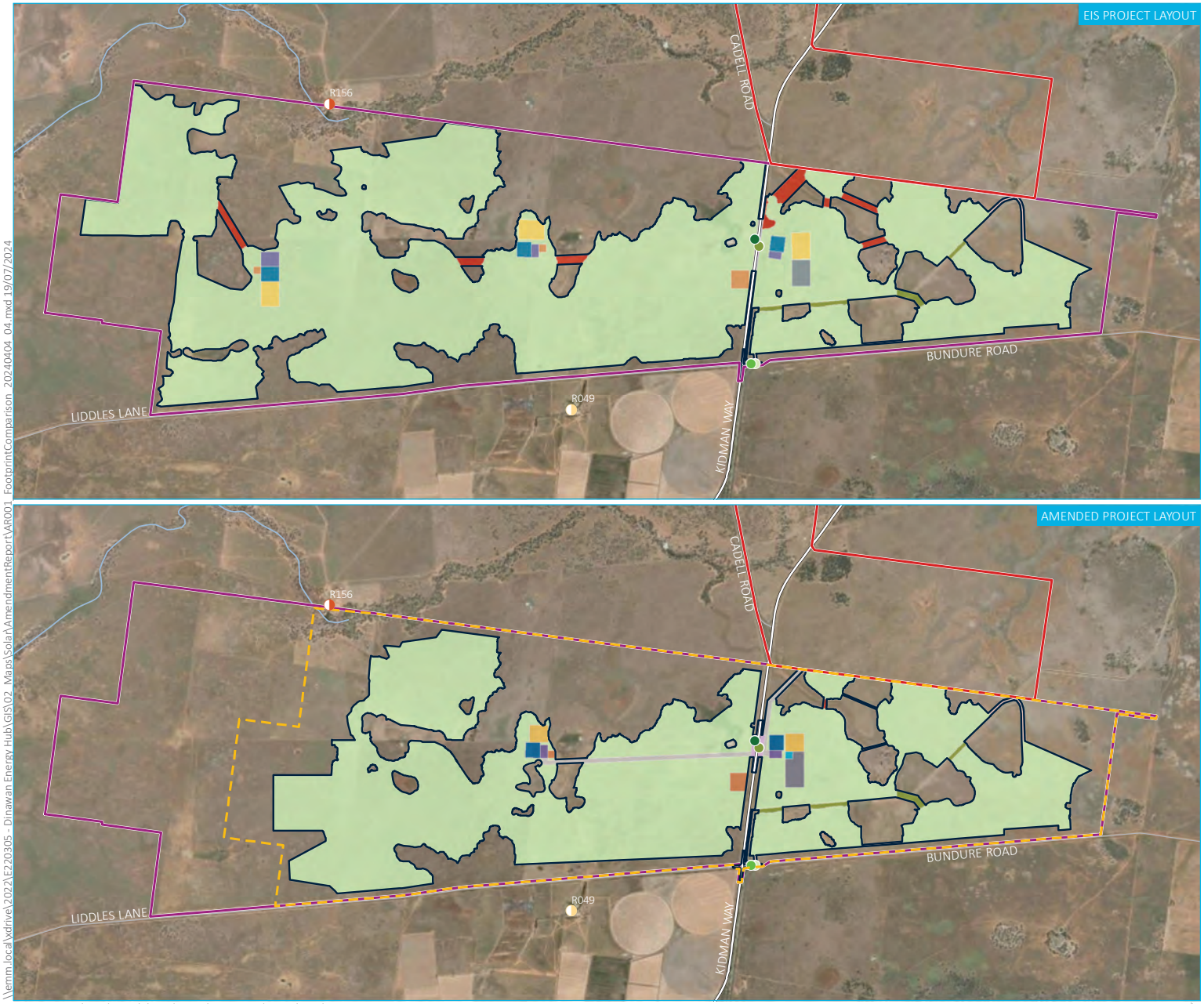
Local context

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 1.2

EMM
creating opportunities



KEY

- Study area
- Amended project area
- Development footprint

Site access

- Kidman Way western site access
- Kidman Way eastern site access
- Bundure Road eastern site access
- Bundure Road western site access

Project EnergyConnect (Transgrid)

- Dinawan Substation

Amended project elements

- Solar array
- O&M facility
- BESS
- Substation
- Switchyard
- Construction compound
- Construction compound/accommodation camp
- Transmission line
- Restricted development area (irrigation)
- Site access
- Electrical cabling/site access
- Public road upgrade/electrical cabling
- Public road upgrade

Existing environment

- Major road
- Minor road
- Watercourse (third order and higher)

Residence

- Associated residence
- Non-associated residence

Source: EMM (2024); Spark (2024); DFSI (2020, 2021); ESRI (2024)

0 2.5 5 km

GDA2020 MGA Zone 55

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Comparison of project layouts

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 1.3

EMM
creating opportunities

2 Aboriginal consultation

2.1 Key findings

- The project assessment adopted the processes and methods outlined in Heritage NSW's *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010), as well as additional project-specific communication strategies to promote transparent and frequent two-way dialogue between the Aboriginal community and the project. These latter activities included several Aboriginal focus group meetings (face-to-face) throughout the assessment process, and other meetings as requested by the local Aboriginal community.

- Consultation with Heritage NSW has conformed with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) and included provision of information on registered Aboriginal parties (RAPs) and notification of the various field survey and excavation activities associated with the project.

- Overall, the project has been liaising with six RAP organisations and/or individuals since its inception in November 2022. These organisations have been identified through the formal notification as part of the Heritage NSW consultation requirements and/or through contacting the project following word of mouth within the local Aboriginal community. The RAPs include well-established Wiradjuri individuals and/or organisations based in Narrandera and Griffith, as well as Bangarang representatives from Shepparton, Victoria.

- Due to the complexity and fluidity of the ACHAs for Dinawan Solar Farm and Dinawan Wind Farm, communications have involved aspects of both projects, particularly given the RAPs considered them both part of the same landscape. As such, communications for both projects have been documented in one consultation log.

- Opportunity for Aboriginal involvement in consultation for the project was provided throughout the preparation of this ACHA, including:

    - attendance at five face-to-face meetings during key phases of the project
    - participation in an 11-day field survey of the study area
    - participation in a 7-day archaeological test excavation program within the study area.

- Ultimately, over 240 interactions have been undertaken with the RAPs across these opportunities. With five of the six organisations, Griffith LALC, Bundyi Aboriginal Cultural Knowledge, Bidya Marra Consultancy, Bangarang Aboriginal Corporation, and Roley Williams, participating in these opportunities, and totalling over 18 days on site, cumulatively.

- Discussions with the RAPs have been extensive over the assessment process. Feedback on the project and ACHA activities has generally been positive, with a strong focus on the wide variety of cultural materials identified during the survey efforts, and particularly the cultural values of the region, acknowledging Aboriginal burials in the broader region.

- Outcomes from the consultation process resulted in the redesign of the development footprint to avoid impact to Aboriginal sites and areas of high archaeological potential.

2.2 The process

As a requirement of the SEARs, consultation was undertaken in accordance with Heritage NSW guidelines (refer to Section 2.3.1). In addition, due to the size, complexity and fluidity of the project, numerous other communication strategies were employed to improve and maintain dialogue with the local Aboriginal community (refer to Section 2.3.2).

2.2.1 Heritage NSW guidelines

Aboriginal consultation for this project has been undertaken in accordance with procedures set out in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). These guidelines identify a five-stage process:

1. Pre-notification – identification of the Aboriginal individuals and/or communities relevant to the study area by contacting several state government agencies.
2. Notification – contacting all Aboriginal individuals and/or communities identified in Stage 1 to determine their interest in being consulted during the project. This includes direct communication and the placement of advertisements in local media seeking further expressions of interest from Aboriginal individuals and/or communities that may have been missed through Stage 1. Those Aboriginal individuals and/or communities that wish to be consulted become a 'registered' Aboriginal party (RAP).
3. Presentation of project information/assessment methodology – briefing RAPs about the project and scope of any Aboriginal heritage assessment and investigations. This is usually undertaken through written correspondence, but can include meetings, and may undergo several iterations throughout the project as the nature of the assessment changes (e.g. surface ground-truthing may lead to a requirement for test excavations).
4. Impacts and mitigation strategies – discussion of potential impacts to cultural materials and mitigation options with the RAPs prior to developing the ACHA. This is often undertaken either on-site at the end of any field program and/or as part of Stage 5.
5. Report review – the RAPs are provided an opportunity to review and comment upon the draft ACHA, to contribute input into the overall findings, significance and management of cultural heritage.

The consultation process for the project had two aims:

1. to comply with the Heritage NSW consultation procedures to obtain input on the ACHA process
2. to identify cultural places and intangible values that may be affected by the project.

2.2.2 Other communication strategies

In addition to the required steps outlined above, Spark Renewables and EMM implemented a range of other strategies to promote transparent and frequent two-way dialogue between the Aboriginal community and the project. Specifically, the strategy included the following additional activities:

1. Face-to-face meetings – Aboriginal focus group (AFG) meetings were held to promote two-way dialogue, inform project design and to maintain regular interaction with the RAPs. These were held during the initial stages of the project, and during report finalisation for both the project and Dinawan Wind Farm, at a location within the study area and/or nearby venue, with options for online and/or phone meetings as required.

2. Social impact assessment (SIA) – Several meetings were held on-Country with local RAPs (identities were kept confidential) as part of the project's SIA (refer Appendix E.11 of the EIS). A summary of topics discussed has been provided in Annexure B.6.

3. Field investigation participation – all RAPs were offered the opportunity to attend a range of field survey and test excavation activities carried out throughout the study area. Ultimately, some 18 days of participation in the project were undertaken by the RAPs.

2.3 This project

2.3.1 Liaising with Heritage NSW

As part of the ACHA, various interactions with Heritage NSW have been undertaken:

- provision of information on the RAPs involved in the project following the notification process (Table 2.1) – 24 January 2023 (Annexure B.1[1] and Annexure B.3)

- notification of the initiation of archaeological test excavations for the project as required by the *Code of Practise for the Archaeological Investigation of Aboriginal Objects in NSW* guidelines – 4 May 2023 (Annexure B.1).

2.3.2 Liaising with the RAPs

Aboriginal consultation for this project has been undertaken in accordance with procedures set out in Section 2.2.1 and included over 240 interactions with the RAPs between November 2022 and July 2024 (refer to Table 2.1 and Annexure B); and over 18 days of on-site participation.

Initial stages of the consultation process identified 12 Aboriginal stakeholders in the region (Annexure B.2). Following notification, six organisations and/or individuals registered an interest in the project (Annexure B.3). The RAPs included Griffith LALC, Bundyi Aboriginal Cultural Knowledge, Bidya Marra Consultancy, and Roley Williams, all locally based and representing the local Wiradjuri traditional owners. In addition, Bangarang Aboriginal Corporation and Yarkuwa Indigenous Knowledge Centre registered for the project representing the Bangarang people and living south of the study area in Shepparton and Deniliquin, respectively. The project has been willing to register additional Aboriginal organisation and/or individual throughout the project regardless of when they have become known or expressed their interest.

Table 2.1 provides a summary of the main steps undertaken to conform with Heritage NSW guidelines. Table 2.2 and Table 2.3 provide information on participation of RAPs in Aboriginal focus group (AFG) meetings, field survey and test excavations.

[1] Note: Due to the complexity and fluidity of the Aboriginal cultural heritage assessments for Dinawan Solar Farm and Dinawan Wind Farm, communications would often involve aspects of both projects. As such, communications for both projects have been documented in one consultation log (Annexure B.1)

Table 2.1 Summary of Aboriginal consultation steps required by Heritage NSW guidelines

Consultation stage	Description	Date initiated	Date completed	Notes
1	Government agency pre-notification	23 November 2023	7 December 2023	Additional details provided in Annexure B.3.
	Advertisement in the: • Narrandera Angus • The Area News • Weekend Advertiser	15 December 2022 9 December 2022 10 December 2022	29 December 2022 23 December 2022 24 December 2022	A tearsheet is provided in Annexure B.3.
	Notification and registration of potential Aboriginal stakeholders	9 December 2022	23 December 2022	Additional details are provided in Annexure B.3.
	Advising Heritage NSW and Griffith LALC of RAPs	24 January 2023	-	Additional details are provided in Annexure B.3.
2/3	Presentation of information about the proposed project; and gathering information about cultural significance	23 January 2023	20 February 2023	Additional details are provided in Annexure B.4.
-	Field investigations	7 March 2023	30 May 2023	Additional details are provided in Chapter 6.
4	Review of draft report	30 August 2023	26 September 2023	Additional details are provided in Annexure B.5.

Table 2.2 Aboriginal Focus Group (AFG) meetings

Date	Description	Location
6 March 2023	Introduction to project and assessment aims and methods	Coleambally
11 April 2023	Refinement of project layout following results of the survey	Yanco
17 August 2023	Overview of draft report findings	Yanco
28 February 2024	Overview of Dinawan Wind Farm ACHA findings and the amended Dinawan Solar Farm ACHA following Heritage NSW submission during public exhibition.	Griffith/Narrandera
8 May 2024	Review of Dinawan Wind Farm ACHA findings, potential impacts and mitigation measures and final results of the amended Dinawan Solar Farm ACHA.	Griffith/Narrandera

Table 2.3 List of Aboriginal parties for the project and their involvment in survey and test excavations

Organisation	Contact	Location	Date of registration	Survey	Test excavations
Griffith LALC	Stephen Young	Griffith	25 November 2022	Yes	Yes
Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Wagga Wagga	12 December 2022	Yes	Yes
Bidya Marra Consultancy	James Ingram	Narrandera	30 December 2022	Yes	Yes
Bangarang Aboriginal Corporation	Kevin Atkinson	Shepparton VIC	14 January 2023	Yes	Yes
Yarkuwa Indigenous Knowledge Centre	David Crew	Deniliquin	14 December 2022	Opted not to	Opted not to
Roley Williams	Roley Williams	Narrandera	4 January 2023	Yes	Yes

2.4 Aboriginal stakeholder feedback

Aboriginal consultation has been extensive between November 2022 and July 2024, and included over 240 interactions, including five discrete meetings with RAPs in groups or one-on-one meetings (Annexure B.1 and Annexure B.6), and some 18 days of on-site activity. As such, discussions have been wide-ranging, initially focussing on who is relevant to the study area, then the methods and approach to field investigation, noting areas of risk and concern for cultural heritage, and finally into the potential impacts and management of identified cultural sites and values. Where captured, minutes of the meetings are presented Annexure B.6.

In summary, the main discussion topics have included the following:

- Outlining the proposed projects (both Dinawan Solar Farm and Dinawan Wind Farm), including general locations, context related to other nearby studies, EMM's involvement with the project, and the ACHA process and proposed field investigation methodologies.
- Improving participants' understanding of the process and project, and how it related to other nearby projects (mostly as a result of being in the South West REZ).
- Discussion around other recent studies, including the Yanco Delta Wind Farm to the south were undertaken, with an exploration of their findings and what it might mean for the project. References were made to the discovery of camp sites, culturally modified trees, hearths, and oven mounds elsewhere, and which may be expected in the study area. Reference was also made to a wetland and associated cultural deposits within, or in proximity to, the Yanco Delta Wind Farm site; and that a similar landscape with deposits may also be present in the study area.
- Discussion of the broader environment, with a focus on major river systems such as the Murrumbidgee River to the north, demonstrating the importance of the region to the Wiradjuri people. This included discussions around the Bangarang people and their ancestral lands, clarifying that the misconception is the Bangarang people only inhabited the lands south of the Murray River, when they occupied both sides of the river and interacted regularly with the Wiradjuri people and other smaller Murrumbidgee Plains clans.
- Discussion and translation (Mark Saddler, Bundyi Aboriginal Cultural Knowledge) of some of the place and town names in the region, all being based on Wiradjuri language, further reiterating the importance of this landscape to the Wiradjuri people.

- Discussion of numerous Aboriginal burials recorded in the broader region lead by James Ingram (Bidya Marra Consultancy), Roley Williams, Jason Matthews (Roley Williams/Narrandera Aboriginal Community Inc) and Mark Saddler (Bundyi Aboriginal Cultural Knowledge). Known burial sites within the region include Dry Lake near Euroley, the Koonadan burial in Leeton, Lake Bogan west of the study area, the Warangedsa Mission near Darlington Point, the town of Coleambally is a known Aboriginal burial ground, the Limondale Solar Farm north-west of the study area, for which EMM developed a Heritage Management Plan (HMP) following discovery of ancestral remains during construction works. Additionally, discussions on-site included numerous burials around the Hay Plains north of the study area, Salt Lake (location unconfirmed but in general region, possibly Lake Urana east of the study area), burials that were found during a Transgrid survey (Roland Atkinson, Bangarang Aboriginal Corporation) near to the study area though exact location was unknown, and a burial that was recovered from a sand quarry in 2003 very close to the study area (Mark Saddler, Bundyi Aboriginal Cultural Knowledge).

- Further project discussions occurred following the initial survey program that covered 22% (550 ha) of the development footprint considered in the EIS. Heritage NSW had rejected the Yanco Delta Wind Farm ACHA in February 2023 due to insufficient survey coverage (10% of the project area), despite low levels of visibility due to dense vegetation coverage. EMM had received advice from Heritage NSW for other projects (e.g. Central West Orana REZ Transmission Line) that 70% coverage was considered robust. As such, despite the consistently low visibility across the study area, further survey was undertaken to improve survey coverage. It was suggested by Roley Williams that the use of a drone for survey would be more suitable for survey in flat plains with limited visibility to better identify areas of exposure, which could then be explored on foot.

- Discussion occurred around the river red gum tree (DEHS-2023-WT1) and how the limbs do not appear to be natural, rather they had been trained to grow down into the ground. It was interpreted that this was a potential women's tree (Mark Saddler, Bundyi Aboriginal Cultural Knowledge) and the site was to be registered and avoided by the project. Discussions occurred on-site around the paleochannel that appeared to snake through this location including around the aeolian sand mapped in the south-east corner of the study area, which was to also be avoided by the project due to the potential for burials in the low, sandy rise.

- Assessment process – understanding how SSD projects are assessed and how Aboriginal heritage fits into this process; and the key components of the ACHA process.

- Field survey and excavations findings – the nature of cultural materials found within the development footprint, and how they may be further investigated, managed and/or protected into the future. Including the identification of several culturally significant sites that should be avoided by the project. Mark Saddler (Bundyi Aboriginal Cultural Knowledge) provided a site report following the survey highlighting identified sites and Wiradjuri words and language. A copy of the report is included in Annexure B.6.

The outcomes of these discussions have been considered in the development and content of the ACHA. While not necessarily individually mentioned throughout the report, they have nonetheless been considered throughout the formulation of this ACHA.

A copy of the ACHA submitted as part of the EIS was provided to the RAPs (Annexure B.5) on 29 August 2023. Any comments provided from this process are provided in Annexure B.5 and summarised below:

- Bidya Marra Consultancy and Bangarang Aboriginal Corporation provided a verbal response on 25 September 2023 supporting the draft ACHA and its recommended mitigation measures.

- Roley Williams provided a verbal response on 25 September 2023 supporting the draft ACHA and provided an additional comment. Mr Williams requested to know the location proposed for the reburial of artefacts collected during the test excavation and any post-approval mitigation efforts. EMM confirmed this will be detailed in an Aboriginal Cultural Heritage Management Plan (ACHMP), which will be developed in consultation with the RAPs following project approval. Mr Williams noted he would prefer the artefacts are reburied on Country rather than retained in a Keeping Place.

- Bundyi Aboriginal Cultural Knowledge provided a verbal response on 25 September 2023 supporting the draft ACHA generally, with additional comments provided in an email. EMM provided a written response on 26 September 2023; a summary is provided in Table 2.4.

Table 2.4 Summary of comments and how they are addressed

Comment by Mark Saddler – Bundyi Aboriginal Cultural Knowledge	Response to comment
The introduction section of the report should acknowledge the long-standing connection of Wiradjuri people to this country.	This has been included as a section preceding the executive summary.
Signs must be erected on all sites acknowledging that people are on Wiradjuri Country.	This is presented in Section 10.4. The ACHA recommends a Cultural Heritage Interpretation Strategy and Plan is developed in consultation with the Wiradjuri traditional owners following project approval.
Any project or site inductions that will be delivered by Spark Renewables must include a cultural component, which will be developed and delivered by Wiradjuri Knowledge Holders.	This is presented in Section 10.3 for inclusion in the recommended ACHMP, which will be developed in consultation with the RAPs following project approval.
Enquired about the timeframe for the collection of cultural materials in the project area and their proposed reburial location.	As above. EMM confirmed the timing will largely depend on the construction of supporting infrastructure within the South West Renewable Energy Zone and Spark Renewables' ability to connect their project to this infrastructure. The timing around this process is currently unknown, though it's unlikely construction will commence until late 2024/early 2025.
Ensure all places and items recorded by the field teams have been documented and will be protected.	All Aboriginal objects, sites, and places identified by the field teams have been documented and submitted to the AHIMS database. A copy of the site cards is provided in Annexure D.3.
At least four local Wiradjuri knowledge holders must be on-site to monitor construction works and be able to register any sites to the AHIMS database, as well as provide accurate information to all workers regarding due diligence and unexpected finds protocols.	This is presented in Section 10.3 for inclusion in the recommended ACHMP. The ACHMP will develop suitable mitigation measures such as monitoring and artefact collection, with the details determined during its development.
Spark should incorporate an Aboriginal Employment Strategy in their contracts for all workers, aiming for a minimum of 12% local Aboriginal employment. This includes the Dinawan Wind Farm.	This is outside of EMM's scope and the scope of the ACHA, but the recommendation has been passed onto Spark Renewables for their consideration.

3 Existing environment

3.1 Key findings

- The study area is characterised as an exceptionally flat, open riverine plain landscape with low relief and low slope gradients. Lunettes and source-bordering dunes are common in the broader regional landscape where previous ground disturbance is minimal, such as those associated with Lake Mungo, Lake Urana, and Barren Box swamp, among others in the Riverina region. In addition, prevailing winds cause similar crescent-shaped accumulations of sediment on the eastern margins of shallow wetlands and small waterholes (known by the Wiradjuri word, gilgai), but these 'gilgai mounds' are comparatively very shallow and of a far younger antiquity than the lunettes associated with the lakes.

- The study area is situated in the Riverina catchment, which incorporates the floodplains of the Murrumbidgee and Murray Rivers and their various anabranches and tributaries. There are several first order watercourses that intersect with the study area (see Figure 3.1). Other perennial watercourses in the locality include Delta Creek, a third order watercourse approximately 2.5 km west of the development footprint, and Yanco Creek, a ninth order watercourse approximately 7 km south of the study area. Other water sources in the locality include gilgai and shallow, ephemeral wetlands which are scattered across the study area. These watercourses support a number of small ephemeral wetlands in the area.

- The Riverine floodplain would have contained a variety of resources that would have been attractive to Aboriginal people in the past, but also would have influenced the potential cultural materials that may have been deposited and survived. Due to a lack of suitable sandstone geology and steep relief, it is highly unlikely that grinding grooves and rockshelters (or associated features) would be present within the study area. Conversely, culturally modified trees where remnant vegetation remains, hearths, and surface stone materials have greater potential to be present in these environments.

- From a geological perspective, the study area contains alluvial floodplain deposits of unconsolidated sand, clay, silt and gravels, but there are no notable stone outcrops that may have been conducive to manufacturing Aboriginal stone tools, indicating raw materials have been transported to the study area. The closest known Aboriginal quarry site is approximately 70 km north-east of the study area on Whitton Road, near Leeton, where quartz, siltstone and quartzite were obtained. Silcrete, mudstone and claystone have also been recovered from Lake Urana, approximately 35 km south-east of the study area. Regionally, stone artefacts are typically manufactured from quartz, quartzite, silcrete, and sandstone.

- The Australian soil classification (ASC) soil groups mapped within the study area include Vertosols, Chromosols and Rudosols. These soils are frequently shallow with a high clay content and are prone to wind and sheet erosion which exposes the cracking clay subsoils. The removal of this topsoil "A horizon" influences the cultural materials that are typically found in this layer by reducing the potential for subsurface artefacts, resulting in a 'palimpsest,' an accumulation of cultural materials, which significantly reduces the ability to assess the temporal use of the site.

- The study area contains a wide variety of flora and fauna that would have been desirable for Aboriginal people to procure for food, tools, and medicine, as well as totemic and/or cultural purposes. Much of this vegetation has been cleared during the historical period as a result of the extensive pastoral industry in this region.

- The study area has been subject to both natural and anthropogenic disturbance that will affect the survivability of cultural materials if present. These include agricultural, pastoral activities and vegetation clearance across much of the study area. Disruption and removal of the upper soil profile would have resulted in the removal or displacement of any associated cultural materials.

3.2 General

Understanding environmental context assists with predictions of archaeological potential, such as the likelihood of archaeological material being present in the landscape, its spatial distribution and its preservation. Landscape features were an important factor for the choice of camping, transitory and ceremonial areas used by Aboriginal people. Similarly, these landscape features and historical land-use play a role in the level of preservation and the integrity of archaeological sites.

A landscape consisting of suitable topography, hydrology, geology and soils has strong links with natural resources that would have been available to, and sought after by, Aboriginal people. Flora and fauna would have provided food, tools and ceremony (culturally modified trees); proximity to fresh water was necessary for life and growing crops, as well as gathering fish, molluscs, and eels.

3.3 Landscape overview

The study area is situated wholly within the Riverina Bioregion, also known as the Riverine Plains, which extends from Ivanhoe in the north to Bendigo VIC in the south, from Narrandera in the east to Balranald in the west (NPWS 2003, p. 91). The Plains are exceptionally flat, with an average gradient of 20 cm/km from 120 m above sea level (asl) in the east to 65 m asl in the west. This is a product of its geological evolution from a shallow embayment of the Southern Ocean (Pardoe & Martin 2011, p. 16; Soil Conservation Service NSW 1990). The subtle landforms across the Plains are a result of the evolution of its major river systems, the Murray and Murrumbidgee Rivers, and their major tributaries and anabranches the Lachlan, Willandra, Edward, Yanco, and Goulburn Rivers, throughout the Pleistocene and Holocene periods (Pardoe & Martin 2011, p. 16). The study area is located between the Murrumbidgee and Yanco Rivers within the Murrumbidgee subregion, which is characterised by alluvial fans with distributary channels and floodplains overlying Quaternary alluvial clays and sands, and where lunettes and low source-bordering dunes are common (NPWS 2003, p. 97).

Gilgai, a Wiradjuri term for 'water hole', are shallow depressions in the ground that collect and retain water during localised rain events, and these are scattered throughout the study area. On the eastern side of the gilgai, minor crescent-shaped 'gilgai mounds' are formed through a similar process as lunettes, with prevailing western winds causing a very shallow build-up of sediments.

The relief of the topography within the study area is minute, with slopes of <1% and local relief of <5 m.

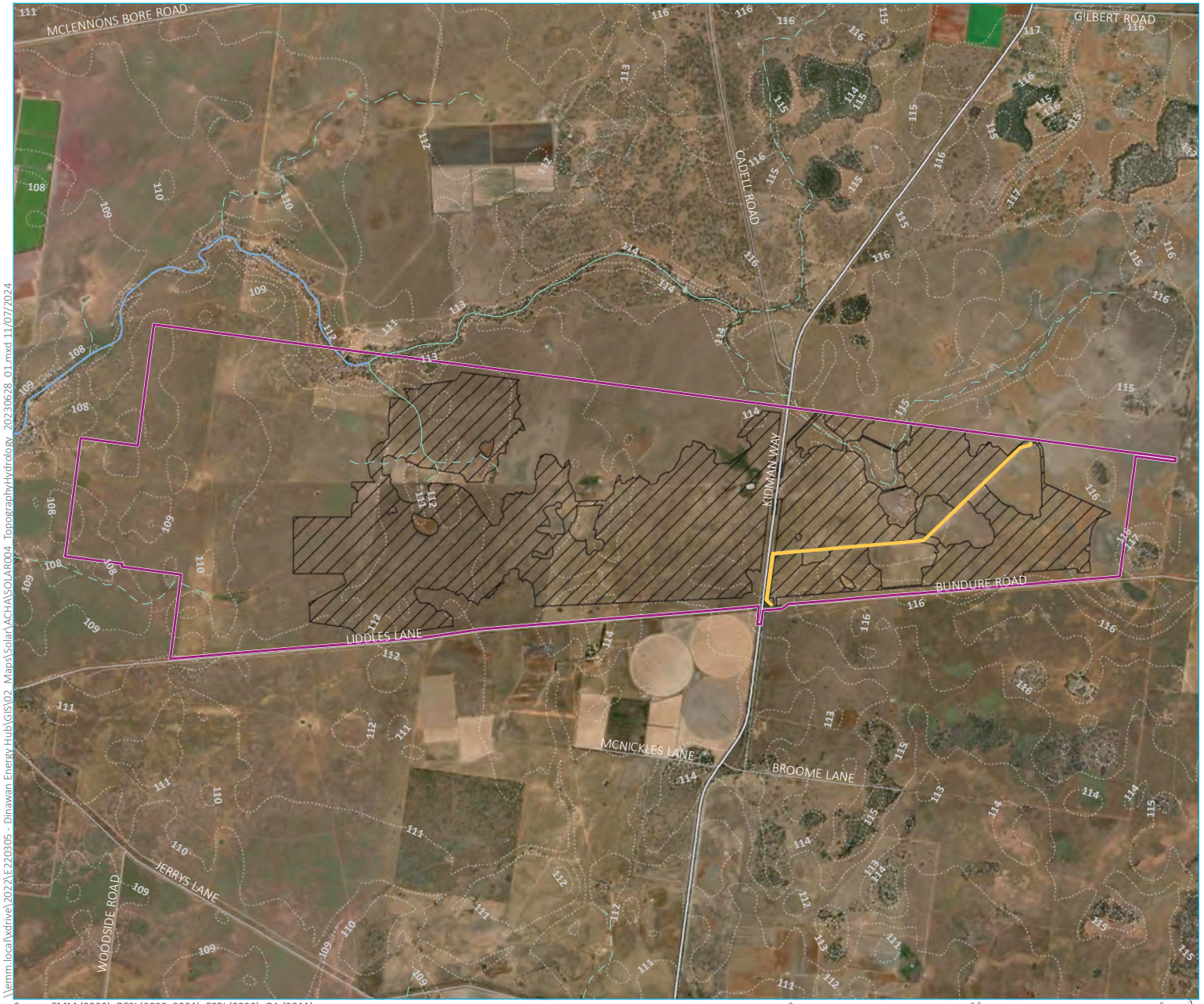
The Plains are characterised by a dry, semi-arid climate with hot summers and cool winters, with varying vegetation communities. These broadly include river red gums (*Eucalyptus camaldulensis*), river cooba (*Acacia stenophylla*), black box (*Eucalyptus largiflorens*), and white cypress pine (*Callitris glaucophylla*) in sandy areas, as well as saltbush shrubland, numerous grassland communities, and water plants in swamps.

3.4 Hydrology

There are two major hydrological systems in the Riverina Bioregion. The Murrumbidgee River is located 52 km to the north of the study area and the Murray River is located 82 km to the south. A large ephemeral low lying swamp, measuring an area of 1.76 km^2, is approximately 1 km north-east of the study area. Lake Urana, a 65 km^2 ephemeral lake, is located 35 km south-east of the study area and contains evidence of Pleistocene-age Aboriginal occupation (see Section 5.2). When overflowing, discharge from Lake Urana has been known to flow west into the Yanco Creek system (Page 1994, p. 159-161; Bowler 1986). Yanco Creek is a ninth order watercourse located 7 km south of the study area. The locations of major named watercourses within the broader region, including Yanco Creek and Murrumbidgee River, are shown on Figure 1.1.

Several first order watercourses intersect the study area, and support a number of shallow, ephemeral wetlands (see Figure 3.1). In addition, gilgai are scattered throughout the study area, which would have served as temporary water sources following localised rain events, and would have supported small, transitory groups of Aboriginal people traversing the landscape.

A geomorphological study of paleochannels in the region determined that the Murrumbidgee channel and floodplain was predominately larger in the Pleistocene than the Holocene, denoting a wider distribution of Aboriginal sites prior to the Holocene (Austral Archaeology 2021, p. 4). Thermoluminescence dating of the Coleambally paleo-system confirmed these ancient stream channels were active around 105,000 years before present (BP), 80,000 BP, and 9,000 BP (Pardoe & Martin 2011, p. 17; Banerjee, Page & Lepper 2002, p. 327). While the earlier dates of 105,000 BP and 80,000 BP exceed the earliest known dates of human occupation in Australia (~65,000 BP), it indicates these paleochannels were active from this early time period through to the early Holocene (10,000 BP) where long-term Aboriginal occupation of the area was well established (see Section 5.2).



KEY

- Study area
- Development footprint
- Coleambally Irrigation Channel
- Contour (1m)

Existing environment

- Watercourse (third order and higher)
- Major road
- Minor road

Strahler

- 1
- 2
- 3

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Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

0 2.5 5 km

GDA2020 MGA Zone 55

N

Topography and hydrology

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 3.1

EMM
creating opportunities

3.5 Geology

The nature of the surrounding and local geology along with the availability and distribution of stone materials has a number of implications for Aboriginal land use and archaeological investigations. Evidence of stone extraction and manufacture can be predicted to be concentrated in areas where outcroppings of suitable raw materials occur. However, where suitable outcroppings are rare, stone can be transported for manufacture and/or traded across the region. The geology of the study area is shown in Figure 3.2.

The geology of the study area is from the Quaternary of the Cainozoic era, consisting of alluvial and aeolian deposits. The unconsolidated riverine deposits of clay, sand, silt and gravels is common throughout most of the Riverina Bioregion (Geological Survey of New South Wales, Department of Mines 1976; NPWS 2003). This period of time, between 5 million years ago (Mya) and 0.4 Mya, is characterised by the formation and decline of the 33,000 km^2 freshwater Lake Bungunnia, resulting in the formation of the semi-arid landscape of the Murray Basin by 0.5 Mya (Page 1994, pp. 20–2).

While the outcropping geology of the study area is minimal, an Aboriginal stone quarry has been identified approximately 60 km north-east of the study area on Whitton Road. The raw material, believed to be sourced from the pebbles of the pebbly sandstone and conglomerate beds, were identified as basalt, quartz, quartzite, chert, and greenstone (NGH Environmental 2019, p. 28; Gollan 1982). Within the larger Coleambally Irrigation Area north of the study area, finer grained sandstone has additionally been noted (Belthuis 1968, p. 128). Pardoe & Martin (2011) have identified quartz, quartzite and silcrete to be among the most common raw material chosen for stone tool manufacture within the region. They also note the minimal cortex retained on many of the stone cultural materials, indicative that the raw materials are being transported into the area due to the absence of suitable locally available stone resources.

3.6 Soils

Soil landscape classifications and their boundaries provide pre-defined areas that are classified by several geographic features, and which are informative for the archaeological investigation. They provide localised information including landform patterns, soils, geology, rock outcrop percentage, land use and vegetation. This information provides another layer to categorise the landscape for the predictive model, additional to what a topographic description can provide. Soil landscape information builds on underlying geology and describes the depths of residual soils and colluvial soils and identifies areas that are characterised by erosion or skeletal soils and exposed bedrock versus those that may contain a deeper profile where cultural material may be buried.

The study area is wholly mapped within the Murrumbidgee Scalded Plains (Mbd) soil landscape unit, which totals 16,540 ha within the Murray-Darling Basin (SEED 2016). Dr Peter Mitchell defines this landscape unit as:

> Quaternary alluvial plains with extensive scalding interpreted as relic floodplains or terraces. Grey, brown and red cracking clays, red brown texture-contrast soils with scalds. Levees traces evident, relief generally <1m, up to 5m on associated pans, swamps and lunettes (Mitchell 2002, p.105).

Based on publicly available Australian soil classification (ASC) mapping data (DPIE 2021), the study area is dominated by Vertosols with a small portion of Rudosols mapped in the south-eastern portion of the study area, with an area of Chromosols mapped in proximity of the south-western boundary (see Table 3.1 and Figure 3.3). In general, these soil groups are observed to:

- have a relatively shallow topsoil unit (<30 cm), with a strong texture contrast between the topsoil (A horizon) and subsoil (B horizon) units
- comprise a high clay content (35%) that frequently exhibits cracking when dry

- exhibit good water holding capacity
- be highly mobile and erosive.

Table 3.1 Summary of regional ASC soil mapping

Soil type	Description[2]	Agricultural potential[3]
Vertosols (VE)	• Soils with a clay field texture or 35% or more clay throughout the solum except for thin, surface crusty horizons 30 mm or less thick. • When dry, open cracks occur at some time in most years – being at least 5 mm wide and extending upward to the surface, or to the base of any plough layer, peaty horizon, or other surface horizon. • Slickensides and/or lenticular peds occur at some depth in the solum. • Often can exhibit gilgai microrelief.	• Generally low to moderate agricultural potential. • Neutral to slightly alkaline, with high to very high chemical fertility and high to very high water-holding capacity. • Moderate erodibility, but likely higher for cracking clays. • Rarely sodic conditions.
Chromosols	• Soils with a strong texture contrast between A horizons and B horizons. • Soils other than Hydrosols: – With a clear or abrupt textural B horizon and – In which a major part of the upper 0.2 m of the B2 horizon (or the major part of the entire B2 horizon if it is less than 0.2 m thick) is not sodic and not strongly acid. • Many of these soils often have calcareous horizon or calcrete pan, or a red-brown hardpan either within or directly underlying the B horizon.	• Generally low to moderate agricultural potential. • Neutral to strongly alkaline, with moderate chemical fertility and moderate to high water-holding capacity. • Moderate to high erodibility. • Occasionally sodic conditions.
Rudosols (RU)	• Soils with generally little, if any, pedologic organisation apart from: – minimal development of an A horizon, or – presence of less than 10% of a B horizon in fissures of the parent material or saprolite. • The soils are apedal or only weakly structured in the A1 horizon and show no pedological colour changes apart from the darkening of an A1 horizon. • Typically, young soils in the sense that soil forming factors have had little time to pedologically modify parent rocks or sediments. • Component soils can vary widely in terms of texture and depth; many are stratified and some are highly saline.	• Most have low or very low agricultural potential. • Typically thin, rocky and/or sandy with low chemical fertility. • Alluvial soils are often deep, fertile and have high agricultural potential.

The soil mapping within the study area indicates that the A horizon topsoils (the cultural bearing layer) are likely to be shallow (<20 cm deep) and vulnerable to erosion, significantly reducing the potential for buried cultural materials. This loss, or near-loss, of the A horizon over time results in cultural materials, if present, settling on the clayey B horizon which is less vulnerable to erosion. This accumulation of cultural material is known as a 'palimpsest' where the temporal use of the site becomes difficult to assess, as the routine loss of topsoils reduces the ability to determine if the site was used intensely for a short period of time, or casually over a longer period.

[2] Per Isbell and NCST (2021)

[3] Per Gray and Murphy (1999)

3.6.1 Previous local soil investigations

A survey undertaking soil inspections of the Coleambally Area in the 1960s, in which auger holes reached depths of 106–198 cm, identified five main soil typologies including 'grey and brown soils of heavy texture', 'transitional red-brown earths', 'red brown earths', 'solodized solonetz soils' and 'deep sandy soils' (Van Dijk & Talsma 1964, p.12–20).

Grey and brown soils of heavy texture are characterised into two subgroups of crumbling calcareous surface horizons and non-calcareous surface soils. Crumbly soils are 50–60% clay based, and surface soils have self-mulching properties, often identified within gilgai soils. This typology includes an average pH level of 7 to 8.5 from 0–2.5 cm deep to 76–91 cm deep (Van Dijk & Talsma 1964, p. 13 & 33).

Red-brown earths are identifiable through well differentiated profiles of loamy or sandy surface soils, roughly 10 cm deep before entering clay. This soil group has been defined as sub-plastic and may include bleaching. This category presents an average pH level of 6.1 to 8.1 from 0–2.5 cm deep to 76–91 cm deep. Transitional red-brown earths are a conglomerate of the two (Van Dijk & Talsma 1964, p. 19 & 33).

Solodized solonetz soils are characterised by a dense, coarsely structured clay subsoil with marked textures of light surface soils and heavy subsoils. When dry, clay often displays large cracks often associated with a bleached sandy-silt layer. Solodized solonetz soils present an average pH level of 6.2 to 9 from 0–2.5 cm deep to 76–91 cm deep (Van Dijk & Talsma 1964, p. 19-20 & 33).

Deep sandy soils present brown and pale grey-brown surface sand, often more than 91 cm deep and aeolian in origin, with subsoils of clay that often form bleached and cemented zones. Deep sandy soils were identified with an average pH level of 6.4 to 6.9 from 0–2.5 cm deep to 76–91 cm deep (Van Dijk & Talsma 1964, p. 20 & 33).

When considering the pH level at which bones decompose, acidic soils measured below 7 have a higher chance of decomposition (Oghenemavwe, Orupabo & Horsfall 2023, p. 157). Deep sandy soils within the Coleambally Irrigation Area appear to consist of an acidic composition, while red-brown earths and solodized solonetz soils range between acidic and alkaline. Grey and brown soils have a neutral to alkaline rating, verifying a slower rate of decomposition.

3.7 Flora and fauna

The plains of the study area have been subject to extensive land clearing altering the original vegetation of the landscape. However, low shrub and grasslands of saltbushes (*Atriplex* sp.) including bladder saltbush (*Atriplex veriscaria*), burrs (*Sclerolaena* sp.), cottonbush (*Maireana aphylla*) and numerous grasses would have likely been the dominant vegetation of the study area, and remnant and regrowth species are present today (Mitchell 2002, p. 105). Moreover, wetlands and gilgai often harbour lignum, and where crumbly puff soils are located, roly-poly (*Sclerolaena muricata var. muricata*) is often present (Van Dijk & Talsma 1964, p. 12).

Prior to early land clearing practices, flora species of Aboriginal importance that would have grown within or in proximity to the study area included the Weeping Myall (*Acacia pendula)*, that was utilised in the making of boomerangs (Bell & Driscoll 2014, p. 186) and the river red gum (*Eucalyptus largiflorens*), used in the construction of canoes through the stripping of bark from a bent tree. River red gum has been recorded along the floodplains of the Murrumbidgee River and Yanco Creek, often associated with the physiographic pattern of paleochannel systems (Van Dijk & Talsma 1964, p. 11-12). Eucalyptus species were often culturally modified to signify burial locations, boundary markers and to obtain cultural materials, such as the hardwoods needed for fire sawing (Arthur & Morphy 2005, p. 57). Furthermore, the Wiradjuri were known to give birth under such trees and the placenta was often buried in proximity, connecting that infant to Country (Adams, Faulkhead, Standfield and Atkinson 2018, p. 84). Barks from such species were used to manufacture nets, utilised in this region when hunting bird species, such as the pink-eared duck (*Malacorhynchus membranaceu*).

Prior to European arrival, the landscape would have provided abundant resources for Aboriginal people. Notable faunal species that would have lived within and around the study area include the red kangaroo (*Osphranter rufus*) and emu (*Dromaius novaehollandiae*). Aboriginal people hunted kangaroo before dusk during peak times of feeding. Apart from their value as a food source, kangaroo skins could be purposed into clothing and waterbags, as the oils in fur act as a repellent from water, making the membrane permeable from one side (Cahir, Clark, Clarke 2018, p. 111).

The cultural and spiritual idea of the celestial emu, *Gawarrgay/Gawarghoo*, and its influence on the life cycle of the terrestrial emu, *Dinawan*, was known throughout Australia prior to European arrival. The seasonal development of this configuration from the Coalsack of the Milky Way to Scorpius indicated when the hunting of Emu eggs was acceptable, this was practiced primarily from March to July (Fuller, Trudgett and Norris 2014, pp. 3-6). The change in orientation of the celestial emu in the sky is believed to be linked to the breeding cycle of the terrestrial emu and can be used to inform hunting practices.

3.8 Previous disturbance and land use

Previous land disturbance has a significant impact to the survivability of cultural materials if present. While there are natural processes that can disturb and/or destroy cultural material, more frequently it is increasing urbanisation over the last 200 years that has resulted in the most significant impacts. The history and land-use of the study area is outlined in detail in the *Statement of Heritage Impact* (Appendix E.3 of the EIS) and summarised below. Historical aerials of the study area are presented in Annexure C.

The first European to have travelled through the area was Charles Sturt in 1829, who surveyed the Murrumbidgee and Murray Rivers on his way to South Australia. By 1838, illegal squatters were reported to be living in the area and by 1843, this evolved into established pastoral settlements with cattle grazing and sheep ranching having visible impacts on the landscape (Belthuis 1968, p.128).

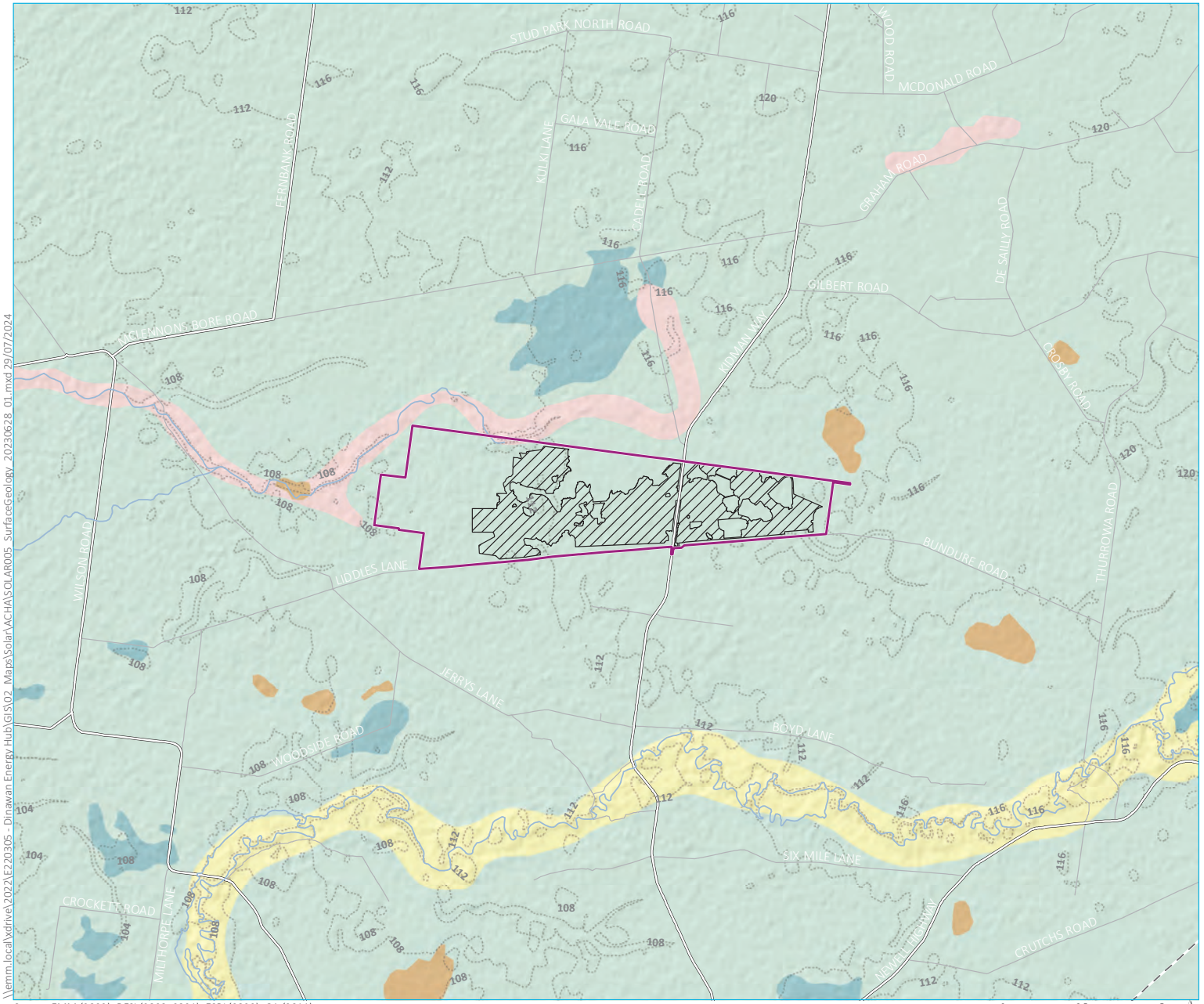
The study area is just south of the Coleambally Irrigation Area, which started the construction of irrigation canals in 1960 due to the development of the Snowy Mountain Hydroelectric Scheme which increased water flow to the Murrumbidgee River (Belthuis 1968, p.128).

'Laser-levelling' was an agricultural practice that was introduced to the local area after its invention in 1977. This system comprised a laser beam transmitter, a receiver, and a 'carry drag scoop' fitted to a tractor. Where the landscape rises above the chosen level, a cutting blade grades the surface and deposits the soil in areas which fall below the chosen level, resulting in an incredibly flat landscape, which is visible in the eastern portion of the study area. This practice reduced watering requirements per hectare from 1 megalitre (ML) to roughly 0.5 ML (Green & Middlemas 1985, p. 40-2). However, it would have had considerable implications for the integrity of cultural materials in the landscape if present, resulting in their displacement, breakage, loss of topsoils and loss of certain site types such as hearths and oven mounds. While some areas may have been subject to historical agricultural laser levelling, there is no direct evidence of which locations or properties this has occurred on. It is mostly likely those paddocks that are currently under crop.

Evidence of prior land disturbances within the study area are associated with these early irrigation and agricultural practices. This includes a significant irrigation canal that bisects the eastern portion of the study area (Plate 3.1) and two extensive borrow pits, measuring approximately 375 m x 75 m with a depth of approximately 3 m, excavated south of the canal (Plate 3.2). The western part of the study area is bisected by a smaller irrigation trench, with evidence of other agricultural disturbances including the installation of fences, dams, access tracks, historical sheds, water tanks, culverts and several large slash piles of cleared vegetation and timber. Existing disturbance within the study area and surrounds is shown in Figure 3.4.

Plate 3.1 The irrigation canal bisecting the eastern portion of the amended project area, view west

Plate 3.2 An example of one of two borrow pits in the eastern portion of the amended project area, view west



KEY

- Study area
- Development footprint
- Contour (4m)

Existing environment

- Watercourse (third order and higher)
- Major road
- Minor road

Surface geology (250k)

- Aeolian sand plain
- Alluvial channel deposits - meander-plain facies
- Alluvial floodplain deposits
- Alluvium
- Playa lake deposits

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Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

0 2.5 5 km

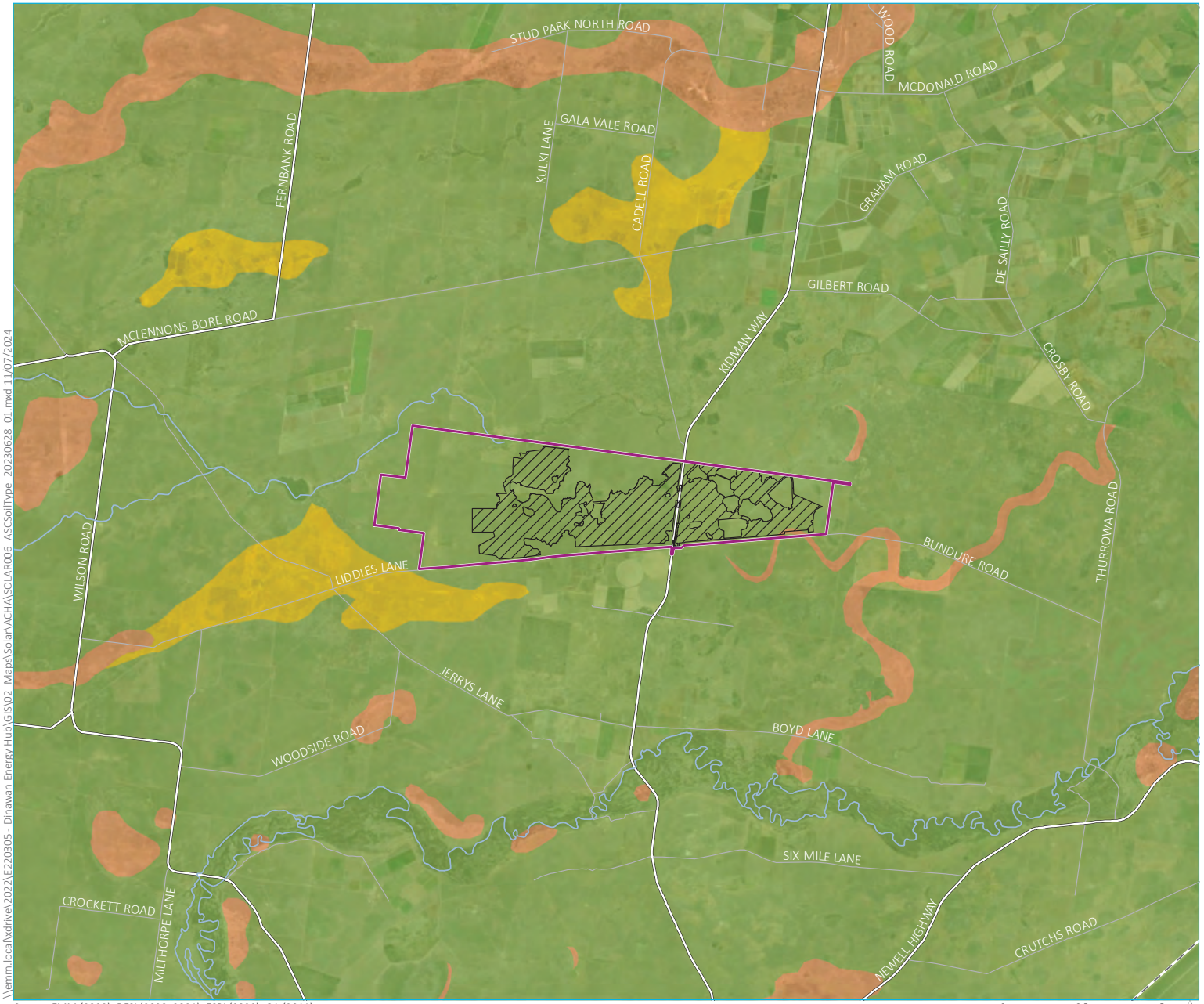
GDA2020 MGA Zone 55

N

Geology

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 3.2

EMM creating opportunities



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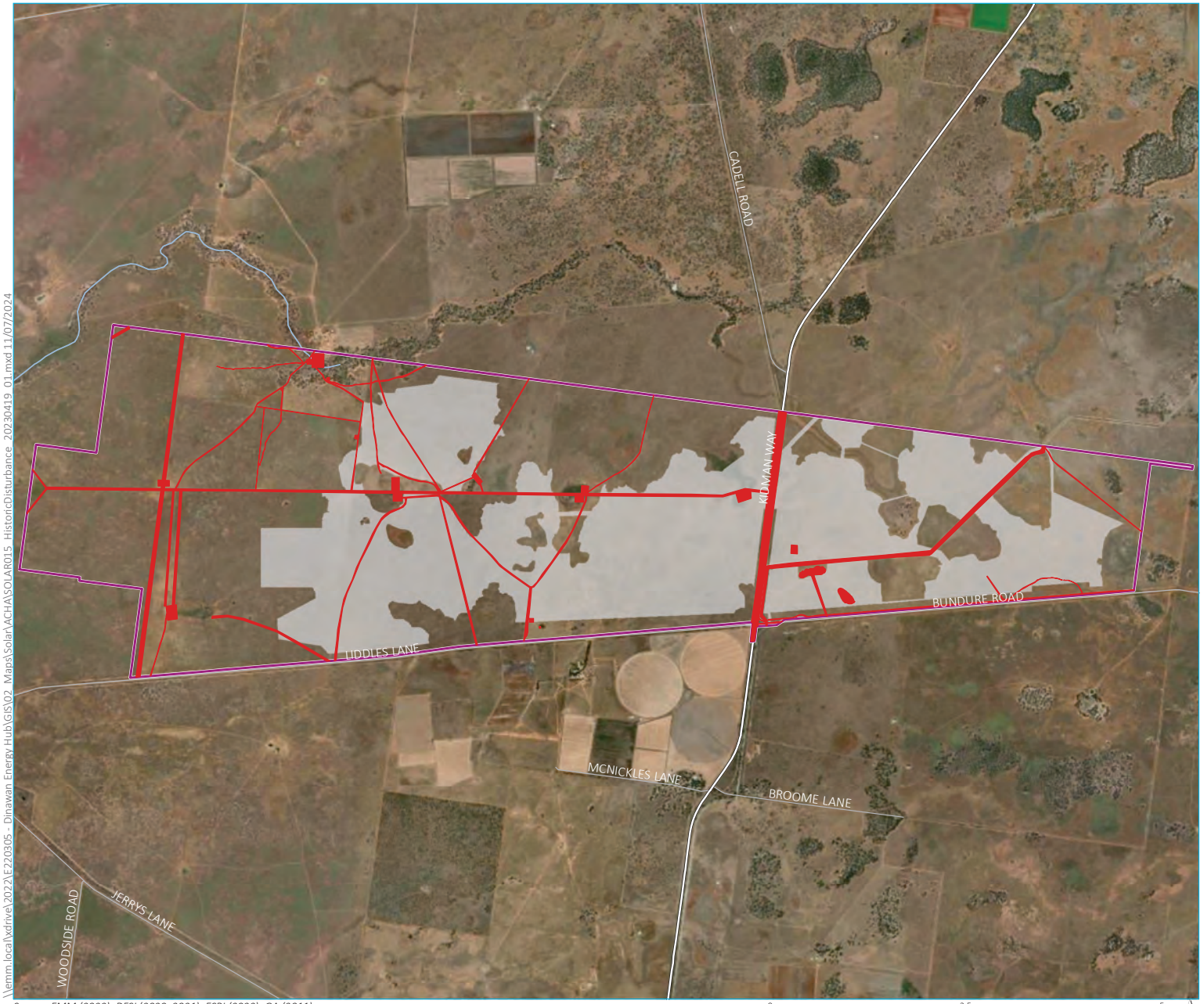
Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

Soil landscapes

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 3.3

EMM
creating opportunities



KEY

- Study area
- Development footprint
- Area of existing disturbance

Existing environment

- Watercourse (third order and higher)
- Major road
- Minor road

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Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

0 2.5 5 km

GDA2020 MGA Zone 55

N

Existing disturbance

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 3.4

EMM
creating opportunities

4 Ethnography

4.1 Key findings

- The study area is situated within the Riverine Plains region, which is composed of three language groups: the Wiradjuri in the north and east, the Kulin language group (Mathi Mathi, Wathi Wathi, Nari Nari and Wemba Wemba) in the west, and the Murray River language group (Yita Yita, Yota Yota, and Pangerang/Bangerang) in the south. The Wiradjuri represents the largest Aboriginal territory in NSW, and their descendants are still based in NSW today.

- The Dreaming incorporates shared laws, histories and lessons that continues to connect Australian Aboriginal people to Country through a much deeper level of understanding, and in many cases ensured their survival in harsh terrain. *Baiame* is a central figure, known as the Sky God, who created people during the Dreamtime before returning to the Milky Way (Konishi 2019, p. 155). Marriage laws and initiation ceremonies such as the *Burbung*, tattooing and scarification were commonly shared amongst tribes in the region.

- A review of historical records for the region shows extensive interactions with Europeans over the last 200 years, including numerous incidences of frontier violence. Although recorded events occurred nearby, no incidents appear directly associated with the study area itself. Due to the negative impacts of European settlement, a breakdown of the clan system occurred in the late 19th century, wherein Aboriginal people in the Lachlan to Murrumbidgee River regions primarily lived in settlements and large pastoral properties, continuing to maintain their identity as Wiradjuri people.

4.2 Documentary ethnography

4.2.1 Regional information

Information about the socio-cultural structure of Aboriginal society prior to European contact largely comes from ethno-historical accounts made by colonial settlers. These accounts and observations were often made after significant social disruption due to disease and displacement. As a result, this information is often contentious, particularly in relation to language group boundaries. Therefore, it is likely that language group boundaries were far more diffuse than the arbitrary demarcations drawn by colonial observers.

The study area is situated within the Riverine Plains region, which is composed of three language groups: the Wiradjuri in the north and east, the Kulin language group (Mathi Mathi, Wathi Wathi, Nari Nari and Wemba Wemba) in the west, and the Murray River language group (Yita Yita, Yota Yota, and Pangerang/Bangerang) in the south (Pardoe & Martin, 2011; NOHC 2022, p. 44). In geographic terms, the Wiradjuri are the largest tribal group in NSW, extending from the Blue Mountains in the east to Hay in the west, and from Nyngan in the north to Albury in the south (Read 1986) (see Plate 4.1). However, Tindale (1974, p. 201) in contrast notes that the south-west boundary of the Wiradjuri was located near Hay and Narrandera, though as a result of European expansion, were pushed further south to the Murray River. The name 'Wiradjuri' means 'people of the three rivers', named for the main rivers in Wiradjuri country: the Murrumbidgee (Murrumbidjeri), Lachlan (Kalari) and Macquarie-Wambuul rivers (NPWS 2003, p. 121).

Documentary evidence suggests the Wiradjuri cultural-linguistic group comprised several smaller sub-groupings. Surveyor and early anthropologist Robert Hamilton Mathews (1841–1918) wrote that the Wiradjuri nation was a 'vast confederation' made up of several smaller groups each with 'recognised hunting grounds.' In turn, these economic groups comprised smaller extended family groups (or 'clans') who were caretakers of a certain area by virtue of birthright (Mathews 1906, p. 941–192). Pearson's research also suggests that seasonality influenced social organisation, with people breaking into smaller groups during lean times (Pearson 1984).

Conversely, feasts and ceremonial activities occurred in established meeting places between large groups of people during resource-rich periods. There is evidence to suggest that intra-group differences were sufficient that information relating to Wiradjuri country 'should not be taken to show much more than the areas where the Wiradjuri language was principally spoken' (Read 1988, p. 14). A number of clans, descending from a female line, make up a conglomerate within the study area, these principally include Narrandera (*Prickly lizard*), Kuta-mundra (*River turtle*) and Murring-bulla (*Two bark canoes*) (Tindale 1974, p. 201; Howitt 1884). Unlike Europeans, watercourses were not always boundaries to the Aboriginal occupation of the region. The Wiradjuri have been documented on both sides of the Murrumbidgee, just as the Bangerang have been recorded from Albury to Moama on both sides of the Murray River (NSW National Parks and Wildlife Services 2003 p. 95). An ethnographic example of the diffusion between nation's boundaries can be seen through an ethnographic report by W. S. Parkes at Brungle Reserve in 1948:

> W. S. Parkes reported to me an interesting conversation he had had with an aged Wiradjuri living at Brungle Reserve in 1948. This man said that the Wiradjuri spoke of their country as a "line" rather than as an enclosed area. Parkes, quoting from memory, detailed the "line" as passing through Brungle, Gobarlong, Jugiong, Harden, Cowra, Orange, Dubbo, Condobolin, Hillston, Hay, Darling Point (south of Griffith), Wagga Wagga, Tarcutta, Adelong, and returning to Brungle. Tumut was on the "line" of an adjoining tribe for which he gave the name Gurmal. Gurmal ['Guramal'] is the Wiradjuri name for the Ngarigo; it is based on their term ['gurai], meaning "hostile people." Parkes also indicated that the area south of Wagga Wagga was not Wiradjuri country. Other information has confirmed this and the tribal name Jeithi is shown as belonging to the region north of the Murray River and south and southwest of the Wagga Wagga area (Tindale 1974. P.129; Parkes 1952).

As detailed, the Jeithi tribal group are located north of the Murray River from west of Tocumwal to Howlong. Their territory extends north to Lake Urana, Jerilderie, and Lockhart, particularly around Yanco Creek and Billabong Creek, covering roughly 5,000 m^2. As discussed previously, Jeithi territory possibly extended further towards the east prior to the ascendancy of the Wiradjuri nation during early European expansion. Several clans were attached to this nation group, as are the names Yeridthee and Pikkolatpan (Tindale 1974, p. 193-4). In accordance with pioneer settler notes from 1841, 10 localised tribes including the Pikkolatpan tribe, regarded themselves as Bangerang/Pangerang (Curr 1887, p. 567). The Bangerang are often affiliated with localised tribes ending in -pan and -ban (Tindale 1947, pp. 41 & 207), and this termination has been linked linguistically to yellum and illum, translating to camp or 'the people who dwelt in any land' (Barwick 1984, p. 106). This is reinforced through the locality of the Murray River Language group, encompassing the Yita Yita, Yota Yota and Bangarang, on the southern margins of the Murrumbidgee Province and along the Murray River (Pardoe & Martin 2011, p. 21). Tindale describes the 'Pangerang' territory boundary as the 'broad valley of the lower Goulburn west to the Murray River east and west of Shepparton; at Wangaratta, Benalla, and Kyabram; south to Toolamba and Violet Town. Not at Albury as stated incorrectly in the 1940 edition' (Tindale 1974, p. 207). However, Matthews (1898, p. 326) remarks that while the Bangerang comprised a large tract of country in Victoria, they overlapped Wiradjuri Country and are 'bounded on the north by a line some miles beyond the river Murray'. The Bangerang were also known in their northern territory as Jurta (Yurt Yoorta), meaning no, but this may represent a separate, if not affiliated, tribal group (Tindale 1947, p. 207).

In accordance with Tindale (1974, p. 191), the Baraparapa boundaries are 'chiefly on southern tributaries of the Murrumbidgee River from above Hay, NSW, to Kerang, VIC; at Cohuna, Gunbower, Brassi, Conargo, and across the river from Carrathool'. Baraparapa, also known as the Burreba-burreba, in the dialect of Burêba, is spoken from Deniliquin to Moulamein and south towards the Murray River. 'Burreba' translates to 'no' (Matthews 1904, p. 291-3), a linguistic similarity to that of Bangerang through their northern name, Yurta.

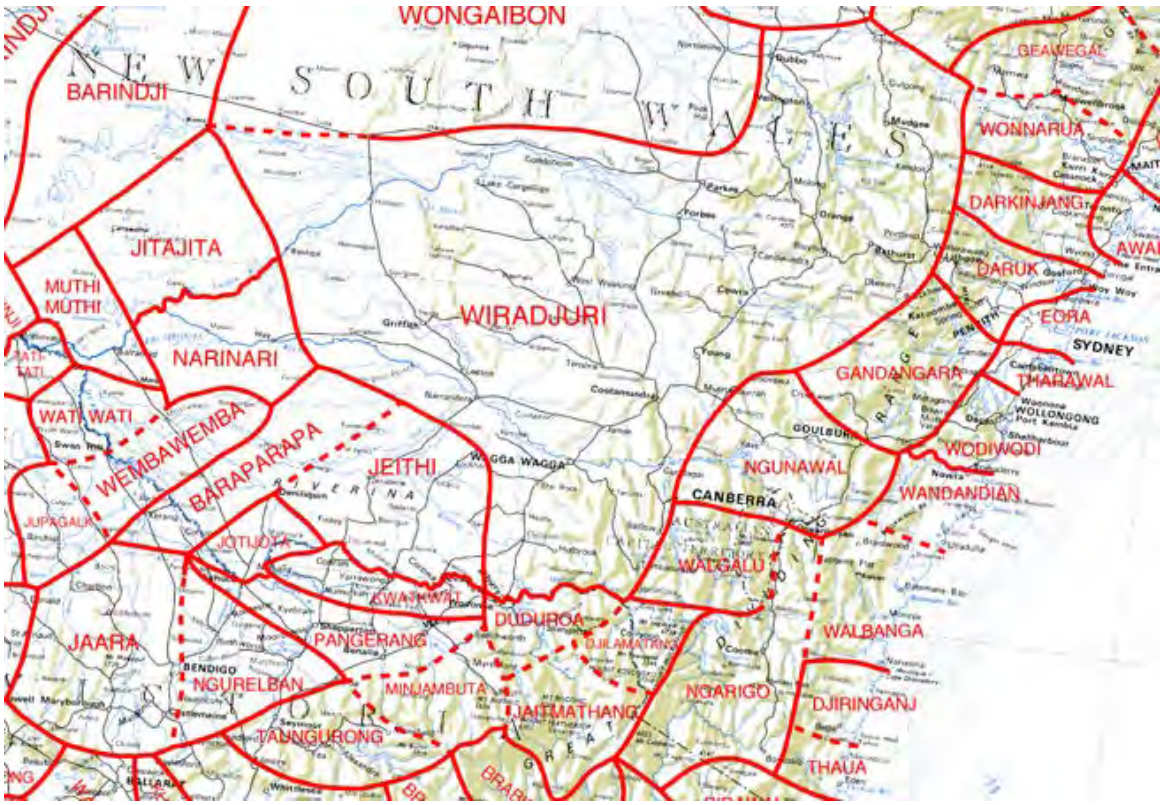


Plate 4.1 Aboriginal Tribes of Australia

Source: Tindale (1974)

4.2.2 Local beliefs and ceremonial practices

Local beliefs in the region were incorporated into different aspects of *the Dreaming*, an anthropological term created by Francis Gillen to conceptualise the enormity of Indigenous belief within a broad framework (Wolfe 1991, p. 201). The Dreaming incorporates shared laws, histories and lessons that continues to connect Australian Aboriginal people to Country through a much deeper level of understanding, and in many cases ensured their survival in harsh terrain.

Dreaming narratives from a Wiradjuri corroboree in 1879 near Euabalong preformed rituals in association with *wa'wi*, the great rainbow snake that lived in the waterholes of the Lachlan River, to ensure the safety of newcomers (Read 1988, pp. 76-7).

Within the study area, *Baiame,* is a central figure, known as the Sky God, who created people during the Dreamtime before returning to the Milky Way (Konishi 2019, p. 155). Dreaming stories state that Baiame's voice can be heard within the trees, and it is believed that he instituted the *Burbung* initiation ceremony (Hartland 1898, p. 299). Matthews (1904, p. 294) remarks that the initiation ceremonies of the Baraparapa and the Wiradjuri were largely homogenous. Initiation ceremonies such as the *Burbung*, recorded in 1898 in Mossgiel, were commonly shared amongst tribes of the Lachlan and Murrumbidgee rivers. This ceremony incorporated the use of a *boorbung*, a circular enclosure formed through the excavation of soils around its circumference, and groove cut iconography or spiritual beings such as the snake-like *kurrea* (Matthews 1904, pp. 337-9).

The Bangerang also participated in the *Narramang* initiation ceremony, recorded along the Murray River. This initiation is thought to be corresponding with the Wiradjuri *Burbong*, in which two of the upper incisors were knocked out with a "wooden punch" (Matthews 1898, p. 327).

Additional ceremonies incorporating cultural body modification is evident when examining settler notes, in which the Wiradjuri were described as 'regularly tattooed, particularly the breast and shoulders, which are strongly tubercled in a kind of systematical diagonal style' and with perforated cartilage of the nose. Aboriginal women on the Murrumbidgee additionally performed scarification of the leg, through the burning of a pith from an unidentified plant before pressing it into the skin, leaving circular markings (Pardoe & Martin 2011, p. 27; Cunningham 1817).

Brumm (2010, p. 193) has additionally theorised that a 'falling sky' belief existed prior to, or alternatively in reaction to, European expansion. The foundation of this belief is conceptualised by the distribution of greenstone axe heads that were symbolically used to reinforce a number of pillars that held up the sky. Distribution patterns of Mount Williams greenstone axes has been identified along the Murray River (McBryde & Watchman 1976, pp. 169-70), and greenstone has additionally been identified in Darlington Point (NGH Environmental 2019, p. 28).

Marriage laws were also similarly shared throughout the region. Within the Wiradjuri community marriage laws were divided into four groups consisting of Ippai, Oombi, Murri and Kubbi following laws of descent. Similarly, the Baraparapa consisted of two phratries, comprising two parts, as seen in Table 4.1. Marriages could deviate from these laws on the condition that clan totems were not shared (Matthews 1904, p. 294). Moreover, the Bangerang additionally had two phratries, called the *Boonjil* and *Wah*. The Wah, represented by the brown hawk totem, is the equivalent of the Wiradjuri Murri-Kubbi, while the Boonjil corresponds with the Ippai-Kumbo (Matthews 1898, pp. 326-7).

Table 4.1 Marriage laws of the Baraparapa

Phratry	Patrilineal partner	Matrilineal partner	Sons	Daughters
A	*Murri*	*Ippatha*	*Umbi*	*Butha*
	Kubbi	*Butha*	*Ippai*	*Ippatha*
B	*Ippai*	*Matha*	*Kubbi*	*Kubbitha*
	Umbi	*Kubbitha*	*Murri*	*Matha*

Source: Matthews (1904, p. 294).

4.2.3 Tools, weapons and apparel

Wiradjuri clans would generally build small villages that acted as a home base for wider foraging, hunting and social activity that would take people into other areas. Small houses were constructed using sapling branches covered with tree bark.

Stone and wooden implements were commonly used by the Wiradjuri. Due to their material type, stone implements are still apparent in the landscape today, and include many items from ground edge axes, adze, blades, scrapers, grinding stones, hammer stones bull-roarer (*mudthega;* Mathews 1896, p. 298) and others made from sedimentary and volcanic rock. Mitchell, who undertook journeys across Central NSW in his role as Surveyor-General in the 1830s and 1840s, observed notches cut into tree trunks using stone axes.

> On my journeys in the interior I knew, by their being in a recent state, when I was approaching a tribe; or when they were not quite recent how long it was since the natives had been in such parts of the woods; whether they had any iron hatchets or used still those of stone only; etc The notches made in climbing trees are cut by means of a small stone hatchet and, as already observed, with each hand alternatively. By long practice a native can support himself with his toes on very small notches, not only in climbing but while he cuts other notches, necessary for his further ascent, with one hand, the other arm embracing the tree. The elasticity and lightness of the simple handle of the mogo or stone hatchet employed are well adapted to the weight of the head and assist the blow necessary to cut the thick bark with an edge of stone (Mitchell 1839, p. 199-200).

Wooden implements also were important and used daily but have not survived within the archaeological record. Wooden implements described by historical accounts include "boomerangs, nulla-nullas, bundies, hielamans etc" (Mathews 1896, p. 301). Many raw stone materials were sourced locally from quarries, outcrops and cobbles found in alluvium. However, not all raw materials were available locally and trade routes extended both north and south over the mountains to the coast (Clayton 1985). It has been stated that the Darling River (~438 km north-west of the study area), on the western boundary of Wiradjuri country, was a meeting or exchange place for central and eastern groups (Clayton 1985).

The most common apparel recognised in the region is possum skin cloaks, recognised from known ceremonial practices and historical accounts of Wiradjuri campsites during the late 19th century.

4.2.4 Contact and post-contact overview

European expansion in the Riverine Plain dates to the early 1800s, at which time surveyors such as John Oxley traversed the Murrumbidgee area (Padoe & Martin 2011, p. 26; Morey, n.d.). The first European settlers to establish themselves within the area, in 1838, were squatting illegally. By 1843, the legalisation of European settlement was established, with Europeans largely focusing on cattle grazing (Belthuis 1968, p. 128).

While documented accounts of early contact between Europeans and Australian Aboriginal people is lacking, early settler notes state that Aboriginal people located in proximity to the Murrumbidgee River helped settlers, in contrast to the Indigenous groups along the Murray River that were more prone to attacking settlers (Pardoe & Martin 2011, p. 26; Morey, n.d.). Later accounts attest to a waring campaign between the Wiradjuri and settlers and near Narrandera that ended in 1841, however accounts from this event are limited (Read 1988, p. 24). Accounts attest to a massacre site on Wagga Road, in proximity to Narrandera, where waterholes were poisoned in an attempt to eradicate the local Aboriginal population living in the area. Dame Mary Gilmore, born in 1864, attests to these events from her childhood. Stating that the Indigenous of the Riverina area were often drowned and killed in such a manner. European news articles from 1951 dispute these events, claiming that applied poisons were utilised to cull dingo populations (Gow 1951, p. 2).

By 1880, the Warangesda Mission, established by Reverend JB Gribble, was utilised as a depot in which displaced Aboriginal people suffering from illness, infirmity and unemployment were housed. The Aborigines Protection Board, which oversaw the Warangesda's Girl Dormitory, forcibly separated Aboriginal children from their families. Warangesda girls were relocated to Sydney to work as domestic servants and were discouraged from expressing matters of cultural descent (High Ground Consulting 2004, pp. 7-8). Not all Wiradjuri members wanted to live within the mission, with 50 Indigenous individuals recorded camping 1 km away from the mission's gates (High Ground Consulting 2004, p. 11). The mission became a public school in 1883, possibly as a result of a 'strike' in which Aboriginal participants protested against the conditions, expulsions, and the confinement of their daughters (High Ground Consulting 2004, p. 14).

5 Archaeological context

5.1 Key findings

- Human occupation of the broader Murray-Darling Basin has been well documented, with archaeological sites including burials recorded at Lake Urana, Willandra Lakes, the Menindee Lakes, Lake Tandou, and Lake Victoria, representing both the oldest and the longest sequences of human occupation.

- Burial sites in the Murray-Darling Basin are well documented, with most sites located in source-bordering sand dunes and lunettes. In a regional study of burial sites in the Murray Basin (Littleton 1999), notably the Murray and Murrumbidgee Rivers, a total of 739 burials (164 sites) were recorded in the Riverine Plain. Over 56% of burials were situated in earth mounds, with the remainder in a variety of different landforms (including source-bordering dunes, lunettes, irregular sandsheets and claypans). Based on this study, it is evident that there are widespread, low-density burials across the Riverine, with large sand dunes in the Mallee Plain a more densely populated location for burial sites.

- The AHIMS search returned 473 Aboriginal sites and/or objects recorded within the 6,300 km^2 search area centred on the study area (Figure 5.1). The search results included a variety of site types often with multiple site features, but generally comprising stone artefact sites (n=282, 56%), culturally modified trees (n=122, 25%), hearth sites (n=122, 26%), as well as earth mounds, potential archaeological deposits (PADs), two burials and a water hole. The majority of sites were documented in proximity to water sources including perennial and ephemeral creeklines, gilgai, swamps and wetlands.

- Numerous compliance-based archaeological assessments have been conducted in proximity to the study area, notably for other renewable energy generation and transmission projects. Their findings are consistent with the regional context, with the identification of artefact sites, hearths, culturally modified trees and, to a lesser extent, earth mounds and burials within alluvial and floodplain contexts. The areas that were the subject of these assessments have been exposed to significant levels of previous ground disturbance including agricultural practices and lance clearance.

5.2 Regional context

While many contemporary Aboriginal cultures note their custodianship of the landscape since time immemorial, from an archaeological perspective, the first peopling of Australia by large groups of hunter-gatherers occurred ~50,000 years ago (Bradshaw et al. 2019; O'Connell et al. 2018). The peopling of the continent was rapid, with sites such as Devil's Lair (WA), Warratyi (SA), and Lake Mungo (NSW) all occupied within a few thousand years of arrival (Bowler et al. 2003; Hamm et al. 2016; Turney et al. 2001). Genomic research has shown that following these initial explorations of the continent, regional populations or nomadic sedentism, was established by ~40,000 years ago (Tobler et al. 2017). These small populations were highly mobile, but remained within a broad spatial geographic area, dictated in general by the nature of resources and water availability. In the case of some of the arid parts of the continent, mobility encompassed thousands of square kilometres (Gould 1977), while major riverine corridors such as the Murray River had near permanent settlements (Pardoe 1995).

In NSW, the earliest evidence of Aboriginal people are human remains recovered from the lunette in Lake Mungo and dating to ~42,000 years ago (Bowler et al. 2003; O'Connell et al. 2018). The presence of red ochre covering the remains represents a society with significant cultural and symbolic complexity (Langley et al. 2011). Near the coastal edge, the earliest populations were found at Cranebrook Terrace, near Penrith. Here, a handful of rudimentary stone tools were found in an alluvial unit, some 8 m below the current surface, which were dated to ~40,000–45,000 years ago (Williams et al. 2017).

However, it is not until ~35,000 years ago, that regional populations appear to have become established in the Sydney Basin, and which appeared to consist of small bands of people focussed mainly along major river systems, including the Hawkesbury-Nepean, Parramatta, Georges and Hunter Rivers (Hughes et al. 2014; Williams et al. 2012; 2014). These rivers formed key ecological refuges that hunter-gatherer groups used to survive major climatic events such as the Last Glacial Maximum (21,000 ±3,000 years ago) – a cool and arid climatic period. Well-established archaeological models suggest populations experienced a major reduction in size (by as much as 60%), and settlement contraction and abandonment across much of the continent during this time (Veth 1993; Williams et al. 2013). Although, recent research suggests that the story may be more complex than this (e.g. Tobler et al. 2017).

The terminal Pleistocene and early Holocene (~18,000–8,000 years ago) was characterized by significant environmental change, notably the rapid inundation of much of the coastal shelf, resulting in the reduction of the continent by ~21% (~2 million km^2) (Williams et al. 2018), in tandem with improving climatic conditions – the Holocene climatic optimum (Williams et al. 2015a; 2015b). More broadly, these conditions resulted in increasing population growth, expansion of ranging territories, increasing sedentism (longer patch residence time) and the beginnings of low-level food production (e.g. aquaculture), and ultimately the initiation of social and cultural groupings observed in the late Holocene (Williams et al. 2015b). Within the Sydney Basin, a large number of sites are first initiated during this time, including Burrill Lake (~20,000 years ago), Bass Point (~17 ka), and Loggers Shelter in Mangrove Creek (~11,000 years ago) (Bowdler 1970; Lampert 1971; Attenbrow 2004; AMBS 2006, p.87). This is also the case in the greater Blue Mountains area, where dated rockshelter sites in the area suggest that Aboriginal occupation extended as far back as 14,000 years ago, and potentially as early as 22,000 years ago (Stockton 1973; Stockton & Holland 1974).

More broadly, at this time we see a much broader range of archaeological site types occurring, such as the Roonka Flat burial ground on the banks of the Murray River, within which some 147 individuals were interred through the Holocene (Pate et al. 1998), and the increasing use of marine resources. Many of the previous refuges were subject to abandonment or a re-structuring of land use (Dortch 1979; Fitzsimmons et al. 2019). These activities suggest the ability to undertake large-scale movements to mitigate environmental distress was becoming increasingly difficult and was addressed through diversification of hunter-gathering behaviours and, at least in part, technological advances and investment (Williams et al. 2015b).

The late Holocene saw significant population increase, with hunter-gatherers reaching their zenith of ~1.2 million at 5,000 years ago, a tenfold increase on Pleistocene levels (Williams, 2013). Data suggests that the highest populations during this time were in the south-east of Australia. Williams et al. (2015b) suggest that this increase was likely a result of intensification of earlier technological advancements, including hafting-technology, plant and seed processing, and localised landscape management (using fire), allowing climatic downturns to be successfully weathered. These included strong arid El Nino Southern Oscillation (ENSO) conditions between 4,000–2,000 and increasingly turbulent climatic conditions during the Medieval Climatic Anomaly (1,300–1,000 years ago) (generally wetter) and Little Ice Age (0.3–0.5 ka) (generally drier) (Williams et al. 2010; 2015a). A result of these denser populations was decreasing freedom of movement and the formation of strong classificatory kinship systems, complex cultural and symbolic landscapes based on geographic totemism (the 'Dreaming'), distinctive graphic art systems, land rights in the form of ritual property, and formalized exchange networks (Williams et al. 2015a).

Human occupation of the broader Murray-Darling Basin has been well documented, with archaeological sites including burials recorded at Willandra Lakes, the Menindee Lakes, Lake Tandou, and Lake Victoria, representing both the oldest and the longest sequences of human occupation (Pardoe & Martin 2011, p.44). Burial sites within the Riverine Plain are abundant, including several significant sites of Pleistocene age, the most famous being Lake Mungo (280 km north-west of the study area), as well as Lake Tyrrell (260 km west of the study area), Kow Swamp (165 km south-west of the study area) and Lake Urana (35 km south-east of the study area). The remains found at Lake Urana consisted of a single fragmented female, unintentionally exposed during quarrying activities of the dry lake's eastern lunette. Thermoluminescence (TL) dating of the sediments surrounding the remains indicated an antiquity of ~20,000–30,000 years old, making Lake Urana the oldest human remains documented on Wiradjuri country.

Aside from these well documented sites, a considerable amount of research regarding burials has been conducted within the Murray-Darling Basin since the late 1980s (Bonhomme 1990; Edmonds 1995; Kelton 1998, 1999; Klaver 1987, 1998; Littleton 1999; Martin 1996a & b, 1998, 1999, 2000; Pardoe 1988, 1995, Pardoe & Grist 2001, Pardoe & Martin 2011). The research has shown differences in burial practices, density, and distribution between the Riverine Plain, the Mallee Plain, and the Darling and Murray River regions. Bonhomme conducted a survey of burials within the Riverine Plain and the Mallee Plain to the west, categorising them into three types: isolated and individual burials, many individual/unrelated burials, and cemeteries (Bonhomme 1990, p. 9 and 147-149, Pardoe & Martin 2011, p. 42). Her analysis showed that geomorphology was the determining factor for site location, where consistent and long-term use of certain landforms such as lunettes and source-bordering dunes along stream channels resulted in a considerably large number of burials (Pardoe & Martin 2011, p. 42). She also found that cemeteries were numerous in the Mallee Plain with burials increasing in number and density towards the south-west, while no cemeteries had been recorded in the Riverine Plain east of Echuca VIC and Hay NSW. She attributed this to the greater variety of landscape features, and therefore greater resource availability, supporting larger populations in the west, which leads to greater complexities of burial practices (Pardoe & Martin 2011, p. 42). The two areas have considerable differences between the soil and environment, and this is reflected in the biology and cultural materials of the people as well (Pardoe & Martin 2011, p. 42).

Bonhomme's (1990) findings were further extrapolated by Judith Littleton's (1999) major research of over 2,000 burials in the Murray Basin, with a focus on the Murray and Murrumbidgee Rivers and their floodplains. Her analysis confirmed a considerable difference between burials in the Mallee Plain and the Riverine Plain, with greater heterogeneity of burial practices in the Riverine Plain, and relative homogeneity of practices in the Mallee Plain (Littleton 1999, p. 1). She too attributes these differences to the variations in environments between the rivers and floodplains of the Riverine and the irregular dune fields of the Mallee, and their resulting differences in population density and distribution across the landscape (Littleton 1999, p. 1). While most burials in the broader Murray Basin are located in source-bordering sand dunes and lunettes, Littleton demonstrated that of the 739 burials (164 sites) recorded in the Riverine, over 56% were buried in earth mounds, with the remainder located in a variety of landforms, including source-bordering dunes, lunettes, irregular sandsheets, and claypans (Littleton 1999). Based on this study, it is evident that there are widespread, low-density burials across the Riverine, with large sand dunes in the Mallee Plain a more densely populated location for burial sites.

The difference between the burial practices of the Riverine and the broader Murray-Darling Basin is not just limited to environmental factors, but the treatment of the dead reflects considerable social and cultural differences. Earth mounds are prevalent across the Riverine Plain, representing both occupation and cooking areas, where repeated use of the site causes an accumulation of ash, charcoal, bones, and baked clay heat retainers to form a large mound or 'ash hill' (Mitchell 1839; Pardoe & Martin 2011, p. 42). Earth mounds are predominantly located along rivers, paleochannels, and lunettes, and can vary from 4 m in diameter up to the largest recorded as the same size as the Melbourne Cricket Ground (Pardoe & Martin 2011, p. 68). Unique to the Riverine Plain, Littleton's research determined that after a burial occurred in a mound, there would be a short period of mourning, after which the mound would continue to be occupied, sometimes resulting in two or three burials accumulating in a mound over time (Littleton 1999). This means that unlike the rest of the Murray Basin where there is a distinct separation between burial and occupation sites, in the Riverine, not only are burial sites widespread across the Plain, but they also often occur in association with occupation sites.

5.3 Local context

Numerous archaeological investigations have been conducted in the Riverina region, including both research and compliance-based environmental assessments, providing a robust volume of archaeological information. The following sections provide summaries of the archaeological investigations completed in the region.

i Buchan (1974) *Archaeological Survey in the Murray Valley, New South Wales 1973-1974*

In 1974, Buchan was engaged to conduct an extensive archaeological survey of land extending from Albury to Mildura, south of the study area. The survey resulted in the documentation of 198 Aboriginal sites, and Buchan's analysis demonstrated that occupation sites characterised by ovens/hearths, scarred trees, and middens were typically located along riverbanks and creeklines, while burials were predominantly located in sand dunes.

ii Simmons (1980) *Site survey of the floodplains between the Murray and Wakool Rivers, NSW*

Simmons was engaged to conduct an extensive survey of the Murray Floodplain and Channels, which resulted in the documentation of 75 earth mounds, 17 culturally modified trees, as well as several artefact scatters, hearths, middens, and burials. All modified trees were mature river red gums, and the earth mounds were characterised by clay nodules, burnt shell, and bone fragments. All sites were associated with water sources, notably floodplains, anabranches, and lake systems.

iii McIntyre (1985) *Archaeological Survey of the Proposed Darlington Point to Deniliquin 132 kV Transmission Line*

McIntyre was engaged to conduct an extensive survey of a 167 km transmission line between Darlington Point and Deniliquin, which passes within 10 km north-west of the study area. The survey resulted in the documentation of 27 previously unrecorded Aboriginal sites, comprising culturally modified trees with artefact scatters, as well as numerous hearths and earth mounds associated with dry box swamps. A post-contact site with historic features was also identified. The raw stone materials comprised silcrete, quartz, basalt, siltstone, and chert and all culturally modified trees were grey box trees. These sites were also closely associated with water sources.

iv Hamm (1995) *An archaeological assessment of Telecom's proposed optical Fibre Cable routes Darlington*

Hamm was engaged to conduct an extensive survey of a 117 km optic fibre cable proposed to connect telephone networks in Darlington Point, Coleambally, Finley, and Jerilderie. The survey terminated 20 km north of the study area and resulted in the documentation of 20 previously unrecorded Aboriginal sites, all culturally modified trees, which in contrast to McIntyre's findings were all located on yellow box trees.

v Edmonds (1996a) *An Archaeological Survey of the Benerembah Irrigation District Stage 4 Drainage, West of Griffith*

Edmonds conducted pedestrian and vehicular survey along the Edwards River, located 100 km south-west of the study area. The previous archaeological research in the region indicated that culturally modified trees, earth mounds, and burials would be the predominant site types identified during the survey. Edmonds further predicted that earth mounds and modified trees would be found on the high and low alluvial plains, while burials would likely be found in sand bodies associated with the lower alluvial plains. The survey resulted in the documentation of 10 previously unrecorded Aboriginal sites: 9 culturally modified trees and 1 burial in a source-bordering dune. The modified tree species were river red gums along riverbanks and creeklines, and black box trees within the floodplain. Edmonds attributed the absence of earth mounds to agricultural disturbances and lack of suitable landforms.

vi Edmonds (1996b) *An Archaeological Survey of the Pinelea Drainage Basin, near Finley, south-western NSW*

Edmonds conducted pedestrian and vehicular survey of the Pinelea Drainage Basin near Finlay, located 45 km south of the study area. Edmonds predicted that similar site types as the previous survey would occur, and the survey resulted in the documentation of six culturally modified trees. The modified tree species were grey box trees associated with swamps, depressions, and floodplains, river red gums associated with riverbanks and creeklines, and one Callitris pine tree which was associated with a sand hill.

vii Kelton (1998) *An Archaeological Study of the Proposed Optic Fibre Cable Route Between Morundah and Bundure, South-Western New South Wales*

Kelton was engaged to conduct an archaeological survey between Morundah and Bundure, east of the study area. The survey documented five previously unrecorded Aboriginal sites, comprising three earth mounds, a culturally modified tree, and an artefact scatter. Kelton noted the key factors that influenced site distribution included accessibility to water, elevated land particularly with good views of the river flats, the ability to shelter from winter winds and source sufficient fuel supplies.

viii NGH Environmental (2017) *Coleambally Solar Farm – Aboriginal Cultural Heritage Assessment*

NGH Environmental (NGH) was engaged by Neoen Australia Pty Ltd (Neoen) to prepare an ACHA for a proposed solar farm with a capacity up to 150 MW, located at Coleambally, 33 km north of the study area. The study area is approximately 550 ha and is situated on the Murrumbidgee scalded plains landscape unit, in proximity to the Murrumbidgee source-bordering dunes and depression plains landscape units (DECC 2012). The archaeological context indicated that sandhills and Black Box depressions were the key archaeologically sensitive landforms in the locality. The closest previously documented Aboriginal site was a modified tree (AHIMS #49-4-0014), located 200 m north of the study area.

The field survey involved pedestrian traverses across the study area, resulting in 33 km of transects, or 16.5 ha of coverage. When accounting for poor visibility conditions, the effective survey coverage was reduced to 13.3 ha or 2.4% of the study area.

The field investigation did not identify any new Aboriginal objects and/or sites; however, three European survey or blaze marker trees were recorded (Coleambally European Survey marker tree 1, 2, and 3). This was anticipated as the study area had been heavily modified from agricultural practices. The lack of potential culturally modified trees within the remnant stands of Black Box vegetation was unexpected, but this too was attributed to historical land clearing practices.

The ACHA recommended the avoidance of the blaze trees, if possible, otherwise further recording would be needed to assess if they had any historical significance. Otherwise, the ACHA recommended the proposed project could proceed with caution and implemented an unexpected finds protocol.

ix NGH Environmental (2019) *Yanco Solar Farm – Aboriginal Cultural Heritage Assessment*

NGH was engaged by ib vogt GmbH (ib vogt) to prepare an ACHA for a proposed solar farm with a capacity of ~72 MW, located 75 km north-east of the study area just west of Leeton NSW. The study area comprised 204 ha, with a transmission line proposed to connect to a nearby existing Transgrid substation. The closest previously documented Aboriginal sites were three culturally modified trees located approximately 1 km north of the study area, noting that many modified trees had been recorded in the wider region, and that most Aboriginal sites were directly associated with water and elevated land.

The survey involved 25 km of pedestrian traverses across the study area, covering 52 ha, noting the effective survey coverage was reduced further due to the low visibility. Despite the high levels of previous ground disturbance from agricultural practices, one isolated find (YSF_IF_001) was identified on the banks of an irrigation channel. The ACHA recommended avoidance of this site, otherwise the proposed project could proceed with caution and implemented an unexpected finds protocol.

x Austral Archaeology Pty Ltd (2021) *Heritage Sensitivity Advice for Dinawan Energy Hub*

Austral Archaeology Pty Ltd (Austral) was engaged by Spark Renewables to provide heritage advice for the Dinawan Energy Hub (which includes Dinawan Solar Farm and Dinawan Wind Farm), by conducting a preliminary overview of the Aboriginal and non-Aboriginal heritage sensitivities and constraints within a broad investigation area (including the amended project area that is the subject of this ACHA).

The archaeological context suggested that hearths, culturally modified trees, artefact sites, earth mounds and burials had potential to be in the investigation area. The landscape analysis showed that paleochannels were prevalent throughout the locality, noting that the Coleambally paleo-system is the oldest in the region and its tributaries were in flow during the period of human occupation. Lunettes and lakes were also assessed as archaeologically sensitive landforms, and despite the significant variability in size, all have a distinctive round or 'kidney' shape (Austral 2021, p. 4). Austral developed a predictive model for the investigation area, which considered all landscape features including paleochannels and past waterways.

A brief site inspection was undertaken to ground-truth the predictive model, confirming its accuracy in archaeological sensitivity, with Aboriginal objects/sites observed in areas mapped as moderate and high archaeological potential. A hearth, artefacts, and modified trees were observed during the site inspection; however, no further details were provided. Areas of low potential were heavily disturbed plains unlikely to contain in situ sites, and several areas of moderate and high sensitivity were changed to low sensitivity following visual confirmation of significant previous ground disturbances.

xi Jacobs (2022) *Yanco Delta Wind Farm, Technical Report – Aboriginal Cultural Heritage Assessment*

Jacobs was engaged by Virya Energy to prepare an ACHA for the Yanco Delta Wind Farm, an SSD project located immediately to the west and south of the study area. The project proposes more than 200 wind turbines, a BESS and associated infrastructure. Two previously documented Aboriginal sites were located within the study area, consisting of an isolated artefact (PEC-E-G2, #55-1-0052) adjacent to an artefact scatter (PEC-E-43, #55-1-0053). The study area was situated on sediments of the Shepparton Formation, with soils mapped as predominantly grey, brown, and red clays with discrete areas of silicious sands, which are often with paleochannels and though they are highly susceptible to wind erosion, could contain deep deposits (>1 m) with Aboriginal sites dating to the Pleistocene period (>10,000 years old).

The field investigation involved archaeological survey covering approximately 958 ha, noting only a sample of the study area was surveyed due to thick impenetrable vegetation and safety constraints (Jacobs 2022, p. 18). When considering the effective survey coverage, the survey efforts resulted in approximately 86 ha (9%) coverage of the study area. Despite the low visibility, the survey resulted in the identification of eight previously undocumented sites, comprising: two PADs with artefact scatters, one PAD with an artefact scatter and hearth, three hearth sites with two containing stone artefacts, and an artefact scatter (AHIMS numbers not known). All sites were situated on the flat plains, except for an artefact scatter (Yanco Delta AS 01) and a hearth site (Yanco Delta Hearth 01) which were both found on terraces.

The ACHA recommendations included the preliminary excavation of hearth sites where harm was unavoidable, which would determine appropriate management and mitigation measures, and the surface collection of AHIMS sites PEC-E-G2 (#55-1-0052) and PEC-E-43 (#55-1-0053). The PAD sites would be avoided by the project. The remaining recommendations included the development of an ACHMP.

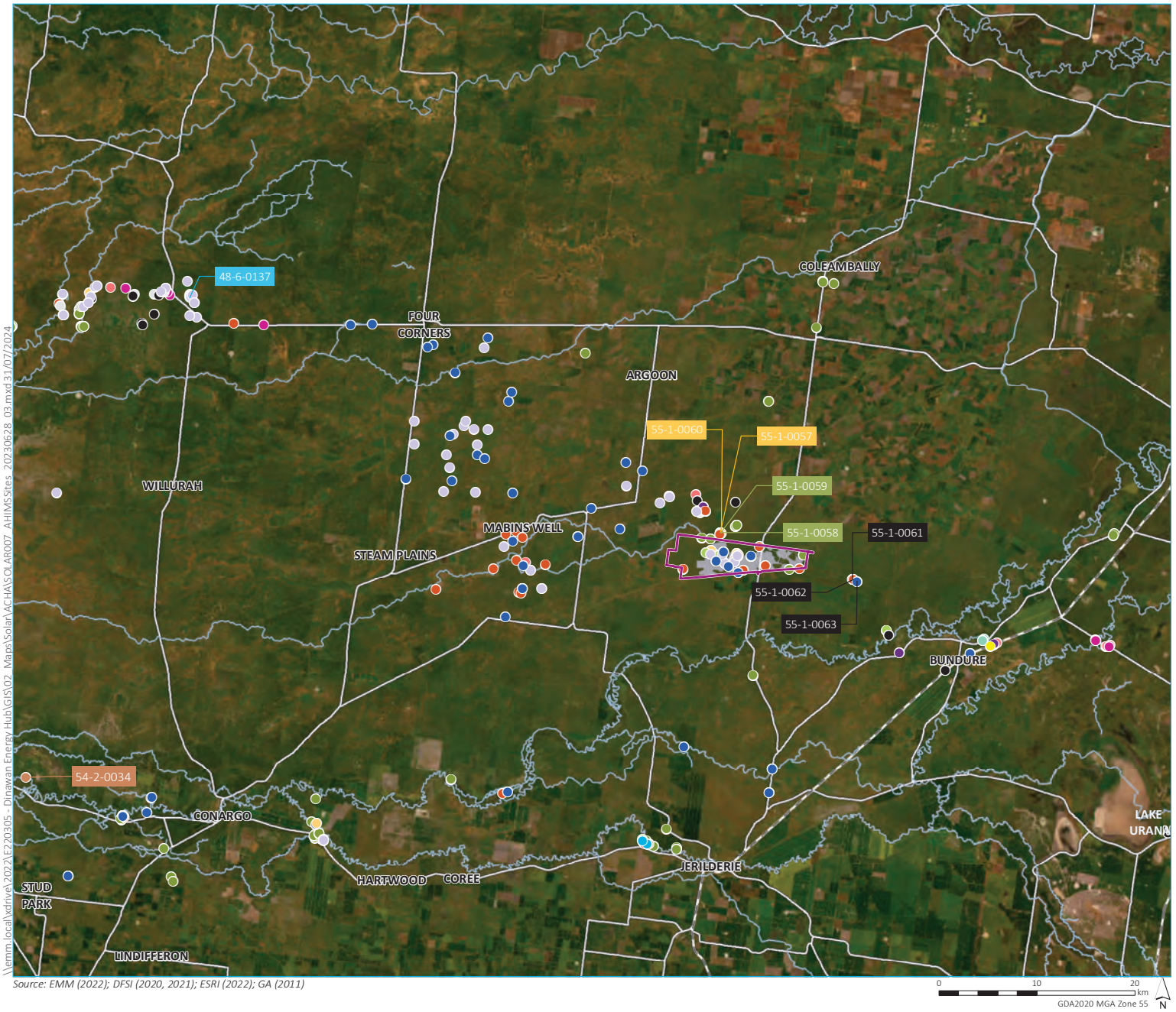
xii Navin Officer Cultural Heritage (2022) *EnergyConnect (NSW – Eastern Section) Environmental Impact Statement – Aboriginal Cultural Heritage Assessment*

Navin Officer Cultural Heritage (NOCH) was engaged by Transgrid and ElectraNet to prepare an ACHA for the approval of the construction and operation of a new transmission line between NSW, South Australia and Victoria (collectively known as Project EnergyConnect). The proposed project would involve the installation of 375 km of transmission line and associated infrastructure between the Buronga substation in the west, the Dinawan substation immediately north of the study area, and the Wagga Wagga substation in the east, including ancillary areas for construction infrastructure. The study area comprised a 1 km wide corridor between the Buronga and Wagga Wagga substations and additional areas proposed for construction compounds, and extended through several bioregions, including the Murray Darling Depression, the Riverina, and the NSW South Western Slopes. NOCH's predictive model determined that artefact scatters and isolated finds were the dominant site types across the regions, with hearths, burials (generally in mound sites), freshwater middens, and culturally modified trees most likely to occur within the study area.

The survey efforts covered 5,027 ha including vehicular traverses, with a total of approximately 53% inspected via pedestrian traverses, with 35% of the study area providing useable archaeological exposures. The survey effectiveness was estimated to cover 22% of the total surveyed area.

Despite the low visibility and useable exposures, the survey efforts recorded 91 previously undocumented Aboriginal sites and 44 areas of PAD, which were documented separately as they were not associated with any other cultural materials or sites and therefore given a tentative site classification. Isolated finds and artefact scatters were the most common site types recorded (50%), followed by culturally modified trees (n=9, 9%), hearths (n=5, 5%), earth mounds (n=3), and a shell midden. Almost all sites were observed within disturbed contexts from natural and anthropogenic erosion. The landscape varied across the survey corridor; however, most of the sites were identified on alluvial plain landforms and flat plain landforms, as well as floodplains, undulating sandplains, plains, a hill, a dune crest, and a levee on a stream channel. Nearly all sites were associated with water sources, including both low-order ephemeral drainage lines, perennial watercourses, dry lakes and waterbodies.

The project is expected to directly impact 94 sites, and the ACHA recommended the avoidance of sites with moderate to high scientific significance, avoidance of PADs where possible or test excavation to determine appropriate mitigation measures, avoidance or mitigation of culturally modified trees, and surface collection and salvage of artefact and hearth sites prior to construction.



\\emm.localxdrive\2022\E220305 - Dinawan Energy Hub\GIS\02 Maps\Solar\ACHA\SOLAR007 AHIMSSites 20230628 03.mxd 31/07/2024

Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

Previously documented AHIMS sites

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 5.1

EMM
creating opportunities

5.4 AHIMS data

The AHIMS database is managed by Heritage NSW and includes a location and description of Aboriginal objects and sites recorded through academic research and cultural heritage management (see Annexure D.1 for further explanation of Aboriginal site features). The search identifies any Aboriginal sites or places registered in the area and aids archaeological predictions for the study area by showing the frequency and distribution of Aboriginal site types in the broader landscape. It is important to note that most Aboriginal sites registered on the AHIMS database have been the result of compliance-based investigations, and the AHIMS search results should be used as a guide only. An apparent lack of sites returned by a search is more of a reflection of the limited number of archaeological investigations conducted in the search area, rather than a lack of Aboriginal sites in the landscape itself.

EMM conducted several searches of the AHIMS database on 27 February 2023 (ID 756900) and 22 March 2023 (ID 766104 & ID 766055), covering an area of approximately 6,300 km² centred on the study area, with a recent search undertaken 8 July 2024 of the same localities. The latest AHIMS database search was split into ten different searches to account for the large number of sites identified (ID 907615, 907618, 908142, 908139, 907912, 908147, 907624, 908134, 907619 and 907621). The results have been condensed and are shown on Figure 5.1. These searches identified 473 Aboriginal sites and/or objects for the same localities. This marked a significant increase in the number of sites recorded following the earlier searches, which initially only returned a total of 109 sites. The substantial rise in documented cultural sites and/or materials within the landscape is indicative of the archaeological investigations recently carried out within the general locale and includes sites identified during the investigations for the project (n=35) and Dinawan Wind Farm (n=107), which were conducted between March 2023 and January 2024.

The results are shown on Figure 5.1 and a discussion of the search results is presented below. The location of the registered burials is not indicated on Figure 5.1, as this information cannot be made public and is of a culturally sensitive nature. Copies of the search results are provided in Annexure D.2.

The AHIMS searches returned a total of 473 Aboriginal sites and/or objects within the search area, excluding duplicate sites resulting from the combined search efforts. The search results included a variety of site types often with multiple site features, but generally comprised stone artefact sites, culturally modified trees, hearth sites, earth mounds, PADs, two burials (#54-2-0033 & #52-2-0034), and a water hole (#48-6-0137). The most common site types recorded in the region are stone artefact sites (n=282, 56%), comprising artefact scatters including those associated with earth mounds, hearths, PADs, and culturally modified trees (n=126, 24.1%), isolated finds including those with PADs, earth mounds and hearths (n=42, 8.88%), and sites containing an unspecified number of stone artefacts (n=126, 26.64%). Culturally modified trees are highly represented in the search area with 116 individual sites (24.52%) documented, noting that two culturally modified trees were included in the stone artefact site count, one was included in the earth mound count, one was included in the hearth site count and two are associated with PAD, which when combined with the individual sites, results in a total of 122 modified trees (24.95%) documented in the area. Hearth sites are also well represented in the search area and combined with the sites included in the stone artefact site count, results in a total of 122 (25.79%) sites, including those with associated stone artefacts, earth mounds, PADs, a burial (#52-2-0034), and culturally modified trees. Similarly, earth mounds (n=22, 4.65%) were often recorded with multiple site features including stone artefacts, PADs and hearths. The water hole (#48-6-0137) recorded 55 km north-west of the study area, is a rarer site type and often associated with ceremonial, ritual, and/or gendered activities.

Table 5.1 shows the results of the AHIMS extensive search, excluding duplicate site types resulting from the combined searches.

Table 5.1 AHIMS extensive search

Site type	Frequency (n)	Percentage (%)
Stone artefact site	**282**	**59.41**
Artefact scatter (exclusive)	8	1.69
w/ hearth	52	10.99
w/ PAD	17	3.59
w/ earth mound	4	0.84
w/ earth mound, non-human bone & organic material, shell	2	0.42
w/ earth mound, hearth	1	0.21
w/ earth mound, hearth, PAD	1	1
w/ hearth, modified tree (carved or scarred)	3	0.63
w/ hearth, PAD	22	4.62
w/ modified tree (carved or scarred)	4	0.85
w/ burial, hearth, non-human bone and organic material	1	0.21
Isolated find (exclusive)	31	6.55
w/ PAD	2	0.42
w/ hearth	8	1.69
w/ earth mound, hearth	1	0.21
Unspecified artefact site	126	26.64
Modified tree (carved or scarred)	**118**	**24.95**
Modified tree (carved or scarred) (exclusive)	116	24.52
w/ PAD	2	0.422
Hearth site	**32**	**6.77**
Hearth (exclusive)	29	6.13
w/ earth mound	1	0.21
w/ PAD	1	0.21
w/ modified tree (carved or scarred)	1	0.21
Burial	**2**	**0.42**
Burial (exclusive)	1	0.21
w/ hearth, non-human bone & organic material, shell	1	0.21
Earth mound	**12**	**2.54**
Earth mound (exclusive)	11	2.33
w/ hearth, modified tree (carved or scarred),	1	0.21
Potential archaeological deposit (PAD)	**15**	**3.17**
Art (pigment or engraved)	**1**	**0.21**
Aboriginal resource and gathering site	**10**	**2.11**
Aboriginal resource and gathering (exclusive)	9	1.90
w/ PAD	1	0.21
Water hole	1	0.21
Total	**473**	**100%**

The only AHIMS registered sites within the amended project area are those that were identified as part of this ACHA. The closest AHIMS sites documented in proximity to the amended project area that were not identified as part of this ACHA are located north of the amended project area along a 2nd order watercourse and comprise:

- two hearth sites PEC-E-50 (#55-1-0060) and PEC-E-47 (#55-1-0057)
- two culturally modified trees PEC-E-48 (#55-1-0058) and PEC-E-49 (#55-1-0059).

Other sites approximately 5–10 km from the amended project area include stone artefact sites, isolated finds, and a culturally modified tree, all associated with ephemeral 1st order creeklines, wetlands and paleochannel mapping, such as #55-1-0061, #55-1-0062, and #55-1-0063 located >5 km south-east of the amended project area. Many of the sites have been exposed by previous access tracks, along streambanks, and erosion scalds.

5.5 Predictive model

A predictive model of Aboriginal site location has been devised based on the data presented in the preceding sections. In summary, the model has been formed by an analysis of:

- landscape features in the study area and surrounds
- pre-colonial period ecological conditions
- advice from Aboriginal knowledge holders, including RAPs
- ethno-historical information about Aboriginal life and material culture
- the type and distribution of Aboriginal sites described in previous reports and AHIMS data.

The model enabled the following predictions to be made about the location of Aboriginal sites within the study area, which has guided the archaeological survey performed as part of this ACHA. Based on the archaeological sites registered in the region, a review of previous archaeological studies and the environmental context, the following conclusions can be drawn regarding the potential presence and location of Aboriginal sites within the study area:

- Isolated finds and open artefact scatters are the most common site types within the region and can occur across most landforms, even in disturbed contexts. Isolated finds may be indicative of random loss or deliberate discard of a single artefact, the remnant of a now dispersed and disturbed artefact scatter, or an otherwise obscured or subsurface artefact scatter. Open artefact scatters or clusters of sites were usually found in association with both perennial and ephemeral water sources, such as lakes, creeklines, wetlands, and gilgai. The most common site type is likely to be surface stone artefactual material reflective of past visitation and/or occupation. Available data suggests that such sites frequently contain few Aboriginal objects (<10) and are predominantly reflective of transitory movement or short-term camping by small parties. It would be expected that most artefact sites located would date to the mid- to late-Holocene (i.e. less than 4,000 years), the age attributed to the A-Horizon artefact bearing deposits. Pleistocene sites (i.e. older than 10,000 years old) have not been previously recorded in the study area to date, and previous work suggests the environmental context and previous disturbance across the study area is not favourable to the retention of these sites, especially in situ.

- Culturally modified trees, including scarred and carved trees, may occur where native vegetation has been preserved. The study area has largely been cleared; however there remains small clusters of trees and individual trees distributed across the landscape and a number of culturally modified trees have been previously recorded within the region. Closer inspection would clarify if there were mature native trees with potential or younger regrowth or exotic trees that have no potential. Extensive vegetation clearance within the study area reduces the likelihood of this site type; however, there are 122 AHIMS records for culturally modified trees in the search area, with two immediately north of the study area. Culturally modified trees typically served utilitarian purposes and, as such, are often associated with waterways and other natural resources associated with short- and long-term occupation. Conversely, carved trees may occur in association with burials, ceremonial sites or as indicators of 'dreaming' tracks and pathways. As such, they may occur only where native vegetation has been preserved, but their location within the landscape is difficult to predict without the aid of cultural knowledge.

- Hearths are frequently encountered in this region based on the AHIMS data. These features reflect a past foci of activity and are generally documented in proximity to watercourses. Where prior ground disturbance is minimal, smaller hearths that are representative of transient campsites can also be found in association with gilgai and ephemeral wetlands. This spatial distribution is likely, in part, a result of the survivability and visibility of these features in alluvial and/or floodplain landscapes that periodically have excellent visibility, as well as less exposure to extensive agricultural disturbances when located in proximity to established watercourses.

- Earth mounds (middens) of bone, charcoal, stone, clay heat retainers, and freshwater shells are documented along established watercourses, paleochannels, and lunettes. Though earth mounds are a common site type in the region, there are minimal established watercourses mapped within the study area which in combination with extensive previous ground disturbance reduces the potential for this site type to remain. Gilgai and ephemeral wetlands do not retain sufficient water to support extensive human occupation, reducing the likelihood this site type will occur in the study area.

- Burials can occur anywhere in the landscape but are notably associated with landforms retaining deeper soil profiles, such as along watercourses, within earth mounds, sand dunes or lunettes, or under rock ledges. Landform elements, such as gilgai mounds, do not retain sufficient soil depths suitable for burials. The identification of burials in the landscape is generally rare; however, >2,000 burials have been recorded within the Riverine region, with the closest documented site located at Lake Urana (35 km south-east of the study area). Further discussion with the RAPs has confirmed that numerous burials are known in the region, usually in association with established watercourses or sand dunes. Generally, burials would be identified by mounds of earth, carved trees, or stone markers. Evidence of burials is generally rare because human bodies are susceptible to the acidic Australian environments and other taphonomic processes. Where subsurface burial is not performed, human bodies can have limited preservation in the archaeological record. Such sites and their component parts are also more susceptible to the impacts of low-level development (such as farming) than other sites. The limited representation of suitable landforms within the current study area, as well as the high levels of previous agricultural disturbance reduces the likelihood this site type will occur in the study area.

- PADs have the potential to occur in the landscape, generally in proximity to watercourses where prior ground disturbance is minimal, retaining the natural soil profile. The extensive previous ground disturbance across the study area and minimal watercourses greatly reduces the potential for this site type to occur. Additionally, gilgai mounds possess very shallow soil profiles which are unsuitable for this site type.

- Water holes are rare and significant site types that are often associated with ceremony and/or culturally significant landforms. Their identification in the landscape is rare and difficult to predict without the aid of cultural knowledge. Their rarity and the lack of established watercourses within the study area indicates it is highly unlikely this site type will occur.

6 Field investigation

6.1 Key findings

- On-site validation consisted of field surveys and test excavations undertaken by EMM archaeologists and representatives of five of the RAPs. The field investigations focussed on the development footprint for the project, with test excavations targeting two locales to further define the potential for subsurface cultural materials within specific landforms present across the development footprint. The field survey encompassed 10 days over a 3-week period from March to April 2023, with an additional day in late May 2023. The test excavations consisted of a seven-day program in late May 2023. The field activities ultimately totalled over 18 days of on-site investigations.

- The field survey encompassed ~108 km (or some 1,298 ha) of pedestrian transects across the development footprint considered in the EIS and included >190 individual points of observation and documentation. Visibility and effective survey coverage were poor (~8%) due to dense groundcovers and thick grass obscuring the ground surface. Despite this, some 35 Aboriginal objects, sites and/or places were documented. These included:

    - eight artefact scatters
    - seven hearths
    - six isolated stone artefacts
    - six culturally modified trees
    - four hearths with artefact scatters
    - three hearths with isolated artefacts
    - one women's tree with an isolated artefact.

- Of these sites, seven were outside of the development footprint considered as part of the EIS, comprising six culturally modified trees that were opportunistically observed while travelling between survey locations, and one artefact scatter that was identified while surveying a portion of the northern boundary of the EIS development footprint. Another artefact scatter, DEHS-2023-AS8, was identified at a later date during field investigations as part of Dinawan Wind Farm; however, due to its location within the study area, has been included in this assessment.

- Project redesign (including amendments to the development footprint following public exhibition of the EIS) resulted in the avoidance of 19 sites from the development footprint: six hearths, three hearths with artefacts, four artefact scatters, three isolated artefacts, two hearths with isolated artefacts, and the women's tree with an isolated artefact.

- A total of eight Aboriginal sites remain within the development footprint, of which one hearth site (DEHS-2023-H4) has a tentative identification with further investigation required to validate it as an Aboriginal object/site.

- A small test excavation program was conducted within two areas, Area A and Area B, identified as having potential for shallow subsurface cultural materials. Additionally, a sample of a potential hearth site (DEHS-2023-H5) was excavated to investigate whether the hearth was likely the result of anthropogenic origin or natural fire events, serving as a representative sample for other hearth sites identified in the development footprint. Area A (site DEHS-2023-AS3) consisted of a low-density stone artefact scatter of over 60 artefacts and was situated on the eastern side of a gilgai depression, where an erosion scald exposed the flakes eroding from the surrounding grassy hummocks. The second site, Area B (site DEHS-2023-HIF1), contained a small quartz flake and a potential hearth on the eastern edge of a gilgai depression with very limited visibility. The program resulted in the excavation of 63 test pits (50 cm x 50 cm pits), predominantly to a depth of 10 cm, though 20 cm was achieved in several pits. Only two stone artefacts were recovered from the efforts, both located in Area A (DEHS-2023-AS3), demonstrating the limited potential for subsurface cultural materials within the highly eroded and disturbed development footprint. The potential hearth associated with Area B (DEHS-2023-HIF1) was confirmed to be natural as it lacked any subsurface features following sampling, and the excavated sample from the potential hearth site DEHS-2023-H5 indicated the hearth was likely of anthropogenic origin due its subsurface characteristics. Information for these Aboriginal sites has been updated on AHIMS.

6.2 Archaeological survey

6.2.1 Approach and methods

EMM conducted an archaeological field survey of the development footprint with the assistance of Aboriginal participants, which encompassed 10 days over a 3-week period, including 7–10 March 2023 and 12–18 April 2023. An additional day of survey for road upgrades and a minor adjustment of the development footprint also occurred on 26 May 2023. The survey was directed by Taylar Reid, Sam Elias and Megan Sheppard-Brennand (EMM archaeologists) with Aboriginal community representation provided through the participation of field officers from Griffith LALC, Bundyi Aboriginal Cultural Knowledge, Bidya Marra Consultancy, Bangarang Aboriginal Corporation and Roley Williams (Table 6.1).

The survey involved both pedestrian and vehicle traverses of the development footprint, targeting areas with ground surface visibility where cultural materials were likely (e.g. watercourses and gilgai mounds) and in areas predicted to be of low archaeological sensitivity (e.g. irrigation canals and swampy floodplains). The exposure was high across much of the development footprint; however, the visibility was incredibly low. As such, vehicles were used to assist the survey team in locating areas of exposure, after which pedestrian survey of the surrounds occurred. In accordance with Requirement 5 of the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010), vehicle traverses have been excluded from the survey effectiveness calculations and discussion (see Section 6.2.2 and Table 6.2).

The development footprint was refined by Spark Renewables following the initial field survey effort and prior to the test excavation program to avoid identified sites and areas of archaeological sensitivity. However, the survey results from areas no longer proposed for impacts are included in this report to contribute to a more in-depth understanding of the local archaeology.

The primary aims of the survey were to:

- identify Aboriginal archaeological sites and/or places with the assistance of Aboriginal participants
- characterise the landscape to aid predictions of archaeological potential and sensitivity
- identify sites or areas that would require further investigation if planned for disturbance as part of the project

- identify sites or areas to be avoided by the project, where possible
- identify areas with minor or negligible Aboriginal cultural heritage values that hold no constraint for disturbance.

The archaeological survey and data collection methods followed Section 2.2 of the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010). The development footprint was divided into discrete transects and aligned with discrete landforms where feasible. The seven survey participants were spaced evenly at ~20 m intervals; and when considering that each individual had a view corridor of 20 m (10 m either side of their person), the transects had an effective survey coverage corridor width of 140 m. This method was considered to be suitable for a largely flat landscape characterised by densely grassed paddocks with low visibility, whereby suitable ground exposures were easy to identify and target. Due to poor visibility across the entire development footprint, the assessment calculations assume that each participant could identify and inspect exposures within 10 m either side of them. Notwithstanding, this calculation does not account for more obtrusive site types such as scar trees which are observable from a much greater distance.

The survey team targeted ground exposures along transects where cultural material was possible to be identified throughout the flat landscape. Archaeological surveys are inherently limited by ground surface visibility conditions and therefore any survey, despite the intensity of survey effort and spacing of survey transects, is considered to only sample the archaeological landscape. The archaeological survey did not aim to cover the entire ground surface within the development footprint, but rather to characterise the archaeological landscape.

The effectiveness of the survey is determined through recording and analysing survey coverage data. It is evaluated for its effectiveness in identifying the distribution of Aboriginal objects across the landscape, considering the potential for archaeological deposits. The percentage of the ground surface exposed in each landform and the visible ground surface within exposures (as ground exposures are often obscured by vegetation, gravel, etc.) influences the survey results. For example, an archaeologically sensitive landform surface that is highly exposed by erosion is likely to reveal Aboriginal objects, whereas a similar landform that is thickly grassed will obscure surface artefacts if they are present. Overall, calculation of effective survey coverage is used to estimate not only how much area was physically surveyed, but also how favourable the survey conditions were for the identification of Aboriginal sites.

Site recording was completed in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010). Site locations and their details were recorded with digital tablets using site recording forms created by EMM on the Survey123 application for ArcGIS (Esri© software). The digital tablets had a location accuracy of up to ±3 m which is similar to hand-held non-differential GPS units (~5 m). The Survey123 forms allowed for a site's location, details and representative photographs to be linked together, which avoided potential post-fieldwork issues around data integrity.

Survey transects were recorded as tracks on GPS units and detailed information about each transect recorded on a separate Survey123 form created by EMM. The Survey123 form allowed for survey transect starting points, details and representative photographs to be recorded. The course of survey transects were recorded as tracks on hand-held non-differential GPS units which were linked to the Survey123 forms.

Table 6.1 Aboriginal stakeholder representatives present during survey

Organisation	Representatives
Griffith Local Aboriginal Land Council	Roslyn Simpson Allan McKenzie
Bidya Marra Consultancy	Bruce Crowe Jason Crowe Brandon Crowe Quentin Ingram
Roley Williams	Roley Williams Jason Matthews
Bundyi Aboriginal Cultural Knowledge	Mark Saddler
Bangarang Aboriginal Corporation	Roland Atkinson Matthew Atkinson David Edwards

6.2.2 Results

Overall, the survey encompassed two survey units, with pedestrian traverses extending ~108 km in length and encompassing ~1,298 ha of observation across the development footprint considered in the EIS (Table 6.2). Individual traverses varied considerably, from ~284 m in length to up to 8.6 km in length. Some 190 discrete observations of the development footprint considered in the EIS were documented (Figure 6.1, Annexure E.1). Representative samples of all areas within the development footprint were surveyed, with vehicle use enabling the survey team to better locate and investigate areas of exposure within the heavily grassed plains[4]. The exposure was considerably high, varying between 90% within the alluvial plains and 70% within the ephemeral drainage lines. Visibility was consistently low (10%) across the development footprint, varying between nil and 20% within both the watercourse and alluvial plain landforms. The sources of exposure were the result of both natural erosional processes and anthropogenic agricultural practices. The previous ground disturbance across the development footprint was extensive, initially being cleared in the 19th century for irrigation farming, which continue to the present. The eastern property, known as Red Swamp, is bisected by a substantial irrigation canal (known as Coleambally Irrigation Channel) with two borrow pits measuring ~375 m x 75 m with a depth of ~3 m, excavated south of the canal. The property has been subjected to land clearance for agricultural practices, resulting in an exceptionally flat open landscape. The western property, Hawks Nest, is bisected by a smaller irrigation trench, with other agricultural disturbances including the installation of fences and access tracks, the excavation of several dams, and several large slash piles of cleared vegetation and timber.

Topographically, the development footprint is situated within an extensive, flat floodplain with minimal variations in elevation. Several shallow drainage depressions, first order tributaries of Delta Creek and a third order watercourse west of the study area, intersect with the northern and western boundaries of the development footprint. Other hydrological features include several wetlands with stands of remnant grey box trees, and wide, shallow gilgai in the western portion of the development footprint. The soils were consistent across the development footprint, dominated by eroded red and brown clays, interspersed with grey-brown soils in areas prone to flooding. A small rise of red aeolian sands (rudosols) was evident in the south-eastern corner of the development footprint, consistent with the soils mapping.

[4] Vehicle traverses have been excluded from the survey calculations and discussion, in accordance with Requirement 5 of the *Code of Practice*.

The eastern portion of the development footprint was covered in dense, waist-high grasses with numerous invasive weeds and minimal remnant vegetation, apart from a stand of grey box trees (*Eucalyptus microcarpa*) and flooded gum (*Eucalyptus largiflorens*) within a wetland north of the irrigation canal. Nardoo (*Marsilea drummondii*), an aquatic fern and Indigenous food resource, was present throughout the eastern property indicating the wet and swampy nature of the floodplain. The western portion of the development footprint was similar, though the dense grasses reached head high on many of the survey participants, and more trees remained, including weeping myall (*Acacia pendula*) and remnant stands of grey box trees in small wetlands, which also served as the preferred location for the slash piles. Several scattered and well-established peppercorn trees (*Schinus molle* var. *areira*) were identified in the vicinity of an old shed and windmill along the southern margin of the western portion of the development footprint.

The field investigation identified 35 previously undocumented Aboriginal objects/sites (Section 6.2.3, Table 6.3, Figure 6.2). One site, DEHS-2023-AS8, was identified during the field investigations for Dinawan Wind Farm; however, due to its location within the study area has been included in this assessment. The sites were identified primarily on the alluvial plains (n=19, 54%) followed by the watercourses (n=16, 46%); however, seven of these sites, comprising six culturally modified trees and one artefact scatter, were opportunistically identified while travelling between survey locations and while surveying the northern boundary of the development footprint. Removing these sites from the survey calculations results in 17 sites (61%) identified within the alluvial plains and 11 sites (39%) identified along ephemeral watercourses. When accounting for the exclusion of these sites from the calculations, the distribution of sites between the surveyed landforms is proportional, with the alluvial plains survey unit representing 61% of the total surveyed area and the watercourse survey unit representing 39% of the total surveyed area. This demonstrates how the obtrusiveness of certain site types like scarred trees in the landscape can have a positive impact on the number of Aboriginal sites identified during a survey. This is also demonstrative of the survey bias, where watercourses were surveyed more intensely as there was better visibility where cattle tracks caused erosion scars on their way to the dams excavated at the termination of the drainage lines.

The effective survey coverage calculations are shown below in Table 6.2 for the development footprint considered in the EIS and representative photos of the survey are shown in Plate 6.1 to Plate 6.8.

Table 6.2 Survey effective coverage summary

Survey Unit (Landform)	Area (m^2)	Length (m)	Exposure (%)	Visibility (%)	Effective coverage (m^2)	Effective coverage (%)	Aboriginal sites identified
Alluvial plains	7,937,880	66,149	90	10	714,409	9%	19*
Watercourse (first and second order)	5,037,960	41,983	70	10	352,657	7%	16*
Total	**12,975,840**	**108,132**	-	-	**1,067,066**	**8%**	**35***

Notes

*A total of six culturally modified trees and one artefact scatter were opportunistically located outside of the development footprint considered as part of the EIS. Two culturally modified trees were identified on the alluvial plains, and the artefact scatter and four trees were identified along a watercourse. Additionally, one artefact scatter was identified during field investigations for the Dinawan Wind Farm along a watercourse within the study area. Their numbers have been included in the total number of sites to better characterise the cultural landscape.

As part of this amended ACHA, survey coverage within the amended development footprint has been calculated as ~61.5% or ~1,101 ha with ~92 km of survey transects.

Plate 6.1 Western portion of the development footprint, alluvial plains, view south

Plate 6.2 An example of an exposure, western portion of the development footprint, view west

Plate 6.3 Eastern portion of the development footprint, showing limited visibility and the alluvial plains, view south

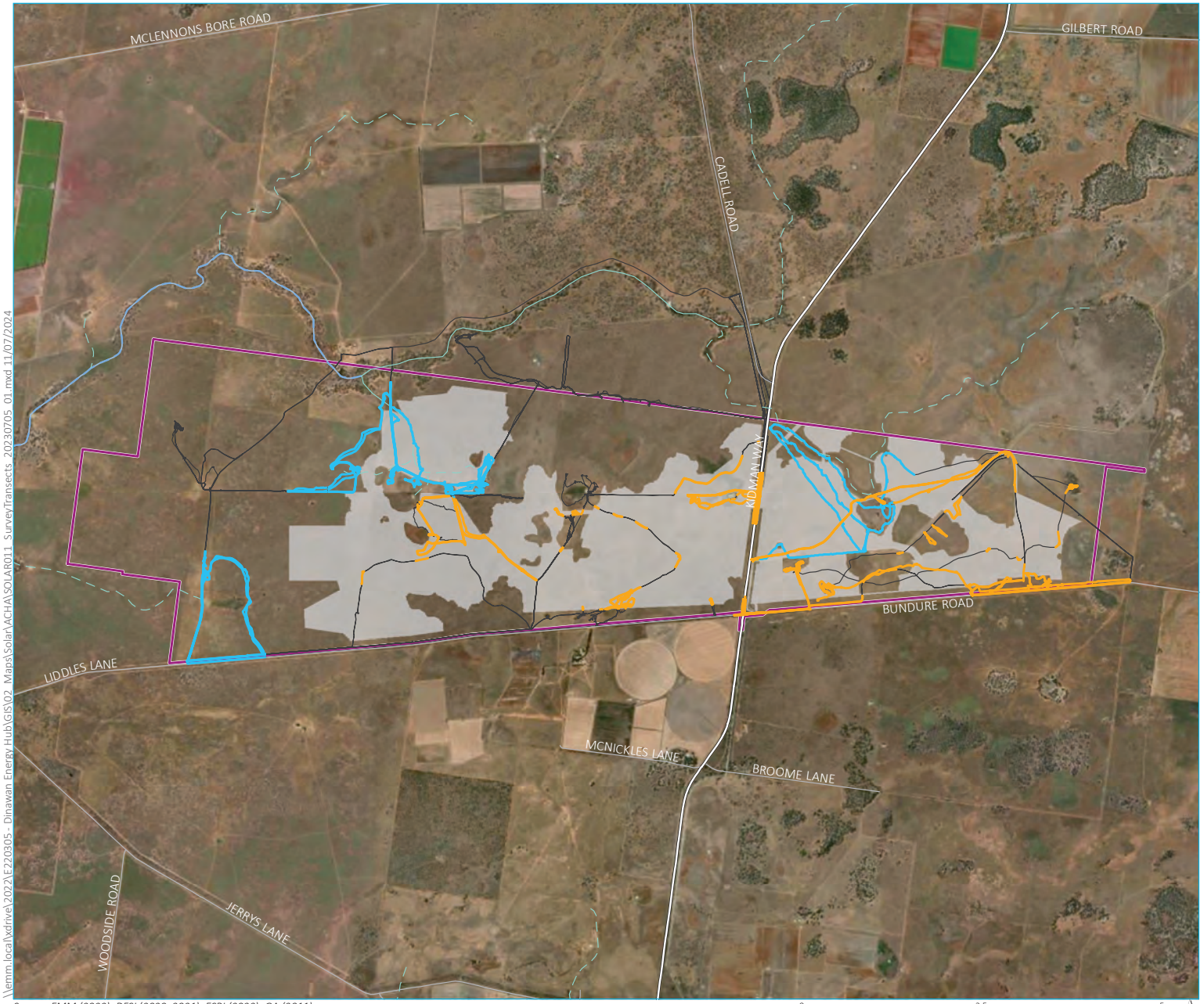
Plate 6.4 Example of drainage depression in the eastern portion of the development footprint, view south

Plate 6.5 Showing an example of grey clays exposed in the drainage line, eastern portion of the development footprint, view south

Plate 6.6 Showing another example of an exposure, western portion of the development footprint, view west

Plate 6.7 Eastern portion of the development footprint, showing rise on aeolian sand mapping, view east

Plate 6.8 Eastern portion of the development footprint, showing prominent river red gum tree (DEHS-2023-WT1) in the landscape, view south



KEY

- Study area
- Development footprint
- Photograph points

Survey transects

- Alluvial plains
- Watercourse
- Vehicle traverse

Existing environment

- Watercourse (third order and higher)
- Major road
- Minor road

Strahler stream order

- 1
- 2
- 3

\\emm.local\xdrive\2022\E220305 - Dinawan Energy Hub\GIS\02_Maps\Solar\ACHA\SOLAR011_SurveyTransects_20230705_01.mxd 11/07/2024

Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

0 2.5 5 km

GDA2020 MGA Zone 55

N

Survey transects

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 6.1

EMM
creating opportunities

6.2.3 Aboriginal sites identified

The field investigation resulted in the identification of 35 previously undocumented Aboriginal sites (Figure 6.2, Plate 6.9 to Plate 6.22, Table 6.3). These included:

- eight artefact scatters
- seven hearths
- six isolated stone artefacts
- six culturally modified trees
- four hearths with artefact scatters
- three hearths with isolated artefacts
- one women's tree with an isolated artefact.

The six culturally modified trees and one artefact scatter were opportunistically observed outside of the development footprint considered as part of the EIS while travelling between survey locations and while surveying the northern boundary in the western portion of the development footprint. The artefact scatter and four of the culturally modified trees were located on the watercourse north of the development footprint and the other two culturally modified trees were observed within a wetland on the alluvial plains east of the development footprint. They are included in this discussion to characterise the cultural landscape.

Overall, the relatively equal distribution of sites between the alluvial plains (n=19, 54%), which represented 61% of the total surveyed area and the ephemeral watercourses (n=16, 46%), which represented 39% of the total surveyed area, indicates that watercourses were the preferred location for occupation; however, the alluvial plains landscape also hosted evidence of occupation and transition. Table 6.2 presents the location of sites identified during the survey, demonstrating higher site density along the ephemeral drainage line in the north of the western portion of the development footprint. This is partially the result of survey bias, as dams were constructed around the terminus of the drainage lines, resulting in higher erosion and better visibility caused by cattle and sheep regularly visiting the dams. However, most of the hearth sites, which are generally indicative of longer periods of occupation rather than transitional campsites, were identified along the drainage line.

Nearly all sites identified in the alluvial plains were situated on the eastern edges of shallow gilgai depressions, where a scant layer of soils have accumulated in a subtle rise, a diminutive version of the lunettes that form on the eastern edges of lakes and larger waterbodies. The three sites identified within and adjacent to the eastern portion of the development footprint (DEHS-2023-AS1, DEHS-2023-AS6 and DEHS-2023-WT1) are situated in the alluvial plains landscape, though they are associated with a paleochannel that, at a desktop level, visibly snakes through the southern boundary of the eastern portion of the development footprint. The sites DEHS-2023-AS6 and DEHS-2023-WT1 are associated with a low, red aeolian sand dune. Both DEHS-2023-AS1 and DEHS-2023-AS6 are two low-density artefact scatters (<1 artefact/m^2) in disturbed contexts, each site comprising three small, highly utilised silcrete flakes with retouch and one quartzite flake piece. DEHS-2023-WT1, discussed below, comprises an isolated quartz flake and a potential women's tree as identified by one of the Aboriginal stakeholders.

In general, the artefact scatters were of low density (~1 artefact/m^2), with the exception DEHS-2023-AS3 and DEHS-2023-HAS2 (both discussed below). They comprised highly utilised quartz, silcrete, and quartzite flakes, with minimal cores recorded. Many of the flakes were small, crescent shaped microflakes with retouch along the lateral margin. The hearth sites were generally identified as circular clusters of clay heat retainers or termite heat retainers, either wholly contained within the ground or protruding from an erosion escarpment. In some cases, ash was visible around the heat retainers. All hearth sites were found in association with drainage lines or gilgai depressions. Natural fire events can cause similar markings on the earth. As such, some sites are identified as 'tentative', with recommendations for further investigation where they may be affected by the project. The scar trees were of some debate between the Aboriginal stakeholders; however, all trees were grey boxes with oval scarring (Plate 6.21) and were found in association with the more established watercourse north of the development footprint and a small wetland east of the development footprint.

Several notable sites included DEHS-2023-AS3, DEHS-2023-HAS2, DEHS-2023-HAS4 and DEHS-2023-WT1. A brief description of these sites is provided below:

- DEHS-2023-AS3 contained the highest number of stone artefacts identified during the survey, comprising >60 flakes in a 100 m x 100 m area on the eastern side of a gilgai depression. The assemblage comprised predominantly quartz and silcrete flakes, with some chert and quartzite, all heavily utilised, some featuring retouch along the lateral margin of the small crescent shaped flakes (Plate 6.9). One silcrete core with 50% cortex was identified, and one crystal quartz flake was located, which suggested to some of the Aboriginal stakeholders that the site may be related to men's activities. A grinding plate fragment and potential hearth feature were found later during the test excavation (discussed in Section 6.3).

- DEHS-2023-HAS2, a hearth and artefact scatter, was identified at the terminal end of a drainage line in a small wetland that also served as a tip area for slash piles of cleared vegetation. The general area was heavily disturbed, with a dam excavated to the north, evidence of previous slash pile burns, historic rubbish, invasive weeds, and evidence of cattle tracks and grazing. The site featured an eroded hearth, a potential intact oven mound, a polished sandstone grindstone fragment, and two potential flaked glass artefacts (Plate 6.11 to Plate 6.15).

- DEHS-2023-HAS4, a hearth and artefact scatter, contained a potential eroded hearth partially obscured by an ant's nest, with two small quartz flakes, and a sandstone grinding fragment and/or axe blank. The site is located on the eastern edge of a shallow gilgai depression. The sandstone implement was found nearby in the grass and appeared to be river-worn on the dorsal side, with retouch around the edges, and polishing on the ventral side (Plate 6.16 to Plate 6.18). Discussion with the Aboriginal stakeholders on site suggested that it could have been both a topstone (held in the hand to grind seed on a larger grinding plate) as well as a potential axe blank, as resources were scarce in the landscape, so all materials were highly utilised and served several purposes.

- DEHS-2023-WT1 comprises an isolated quartz flake and a potential women's tree as identified by one of the Aboriginal stakeholders during the survey. The tree is an enormous river red gum, with a trunk 5 m in circumference, whose branches appear to have been trained to grow down into the ground and above the surface again, creating a dome-like shelter on the northern side of the tree (Plate 6.18, Plate 6.19, and Plate 6.20). It is prominent in the landscape and is visibly situated within the narrow paleochannel. Its size and antiquity suggest an established or reliable water source was present at one time in this highly disturbed floodplain.

Plate 6.9 A sample of quartz and silcrete flakes associated with DEHS-2023-AS3

Plate 6.10 Location of DEHS-2023-AS3, view west towards the gilgai depression

Plate 6.11 Example of an eroded hearth, associated with DEHS-2023-HAS2

Plate 6.12 A potential glass artefact associated with DEHS-2023-HAS2

Plate 6.13 A potential in situ oven mound associated with DEHS-2023-HAS2

Plate 6.14 Polished grinding plate fragment associated with DEHS-2023-HAS2

Plate 6.15 Location of DEHS-2023-HAS2, view west

Plate 6.16 Dorsal side of the sandstone grinding plate/axe blank associated with DEHS-2023-HAS4

Plate 6.17 Ventral side featuring polish and retouch along the margins (DEHS-2023-HAS4)

Plate 6.18 Location of DEHS-2023-HAS4, view south-west towards the gilgai depression

Plate 6.19 DEHS-2023-WT1 with 2 m scale tape showing size, view north

Plate 6.20 Branches of DEHS-2023-WT1 trained to grow into the ground, view east

Plate 6.21 Showing an example of a potential scar tree, DEHS-2023-ST2, view east

Plate 6.22 An example of a hearth, DEHS-2023-H5

Table 6.3 Aboriginal sites identified during survey

Site name	Site type	Landform	Easting	Northing	Within development footprint	Description
DEHS-2023-AS1	Artefact scatter	Alluvial plain	390,136	6,117,387	Yes	Four stone artefacts on scald within borrow pit, washed in from surrounding plain. One broken silcrete flake with several negative scars and platform prep on termination end, two small highly utilised silcrete flakes, retouch on both, platform prep on broken one, one small silcrete flake.
DEHS-2023-AS2	Artefact scatter	Alluvial plain	387,000	6,118,106	Yes	Low-density artefact scatter exposed by access track and erosion scald. >15 stone artefacts – six silcrete flakes (two yellow & two blue/grey), seven quartz flakes, one large red quartzite flake, one tiny quartz flake with backing/retouch. Highly eroded landscape (exposure 90%) and moderate visibility (50%). Site is likely associated with nearby sites HAS1, H3, H2, AS5 and H1.
DEHS-2023-AS3	Artefact scatter	Alluvial plain	381,529	6,119,361	No	>60 stone artefacts located on eastern side of gilgai depression. Materials include quartz (n=7), quartzite (n=3), silcrete (n=16), IMT (n=1), tentative basalt like material (n=1), crystal quartz (n=1). Retouch evident on multiple flakes. Possible heat treatment on silcrete flake. Includes quartz blade with retouch, and two silcrete flakes with retouch. >10 silcrete flakes, all micro flakes, heavily utilised, some are snapped post deposition. Silcrete core with 50% cortex. Exposure high (80%), visibility low (20%). Test excavation in areas with low visibility recommended.
DEHS-2023-AS4	Artefact scatter	Alluvial plain	387,864	6,116,979	Yes	Four small stone artefacts identified on erosion scald north of a wetland, sheetwash has visibly eroded the landscape in this area. Three tiny complete quartz flakes with small platforms and bulbs. A fourth larger complete quartz flake located by peppercorn tree. Several river-rolled pebbles are visible on this crest.
DEHS-2023-AS5	Artefact scatter	Alluvial plain	387,335	6,118,532	No	One complete silcrete flake with possible retouch and one broken quartzite flake broken exposed on an erosion scald. Site is likely associated with nearby sites HAS1, H3, H2, AS2 and H1.
DEHS-2023-AS6	Artefact scatter	Alluvial plain	393,830	6,117,171	No	Two quartzite flakes and one silcrete flake exposed on access track. Sandy red soils in area, aeolian sands mapping and proximity to paleochannel mapping. Low exposure (30%) and low visibility (10%).
DEHS-2023-AS7	Artefact scatter	Watercourse (first/second order)	385,446	6,120,591	No	Two quartzite flakes located on erosion scald adjacent to creekline. Outside development footprint.
DEHS-2023-AS8	Artefact scatter	Watercourse (first/second order)	381,729	6,117,087	No	One large manuport, three silcrete flakes, and one crystal quartz flake identified on an erosion scald in proximity to an ephemeral drainage line. Exposure high (70%), visibility low (10%).

Table 6.3 Aboriginal sites identified during survey

Site name	Site type	Landform	Easting	Northing	Within development footprint	Description
DEHS-2023-IF1	Isolated find	Alluvial plain	385,085	6,117,870	Yes	Quartz flake located on an erosion scar eastern side of gilgai depression.
DEHS-2023-IF2	Isolated find	Watercourse (first/second order)	384,780	6,118,609	No	Polished river pebble with some markings, an unusual material. Located on an exposure along the drainage line in proximity to a dam.
DEHS-2023-IF3	Isolated find	Alluvial plain	387,327	6,116,732	No	Isolated complete quartz flake located on an erosion scar on the eastern side of a small wetland depression. Very eroded area, high exposure and visibility (80%).
DEHS-2023-IF4	Isolated find	Alluvial plain	388,641	6,118,418	Yes	One silcrete flake exposed on irrigation channel in wetland.
DEHS-2023-IF5	Isolated find	Watercourse (first/second order)	385,867	6,118,809	No	Low quality silcrete flake located in excavated irrigation trench on the eastern edge of a gilgai/drainage line depression and west of a floodplain. Very disturbed area, low visibility (10%).
DEHS-2023-IF6	Isolated find	Alluvial plain	386,365	6,117,349	Yes	Small low-quality quartz flake located the eastern side of a gilgai depression, exposed on an access track. Exposure high (80%), visibility low (50%).
DEHS-2023-H1	Hearth	Alluvial plain	387,222	6,118,682	No	One potential in situ hearth exposed on an erosion scald and partially obscured by an ant's nest. Site is likely associated with nearby sites AS2, H3, H2, AS5 and HAS1.
DEHS-2023-H2	Hearth	Alluvial plain	387,305	6,118,411	No	Two potential in situ hearths with ashy clay heat retainers protruding from ground surface on a low erosion escarpment, exposed by cattle track. Several clay termite balls/retainers scattered in area. Site is likely associated with nearby sites AS2, H3, HAS1, AS5 and H1.
DEHS-2023-H3	Hearth	Alluvial plain	387,224	6,118,338	No	Potential in situ hearth with clay heat retainers on a slightly raised surface exposed by a cattle track. Site is likely associated with nearby sites AS2, HAS1, H2, AS5 and H1.
DEHS-2023-H4	Hearth	Watercourse (first/second order)	384,563	6,119,020	Yes	Potential in situ hearth measuring 3 m in length exposed along an access track, width unknown due to visibility. A second potential in situ hearth, circular shaped, 30 cm in diameter exposed on access track located 35 m south of initial hearth. Potential heat retainers scattered in area.
DEHS-2023-H5	Hearth	Watercourse (first/second order)	384,700	6,118,635	No	Potential in situ hearth measuring 2 m x 2 m located along a drainage depression.

Table 6.3 Aboriginal sites identified during survey

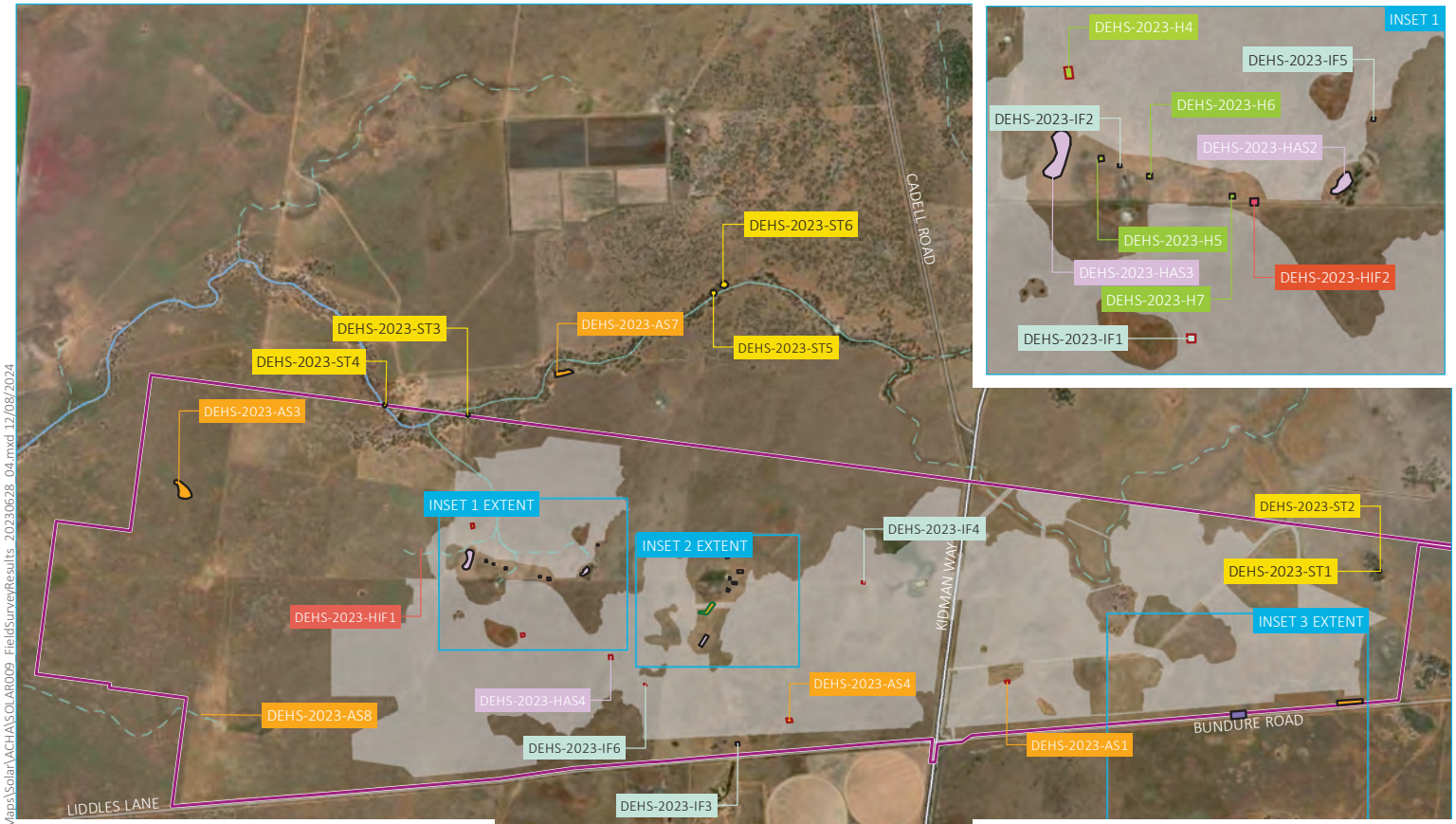
Site name	Site type	Landform	Easting	Northing	Within development footprint	Description
DEHS-2023-H6	Hearth	Watercourse (first/second order)	384,908	6,118,565	No	Potential in situ hearth measuring 1 m x 1 m exposed by an animal track, located along drainage depression.
DEHS-2023-H7	Hearth	Watercourse (first/second order)	385,261	6,118,476	No	Potential in situ hearth measuring 2 m x 1 m located on the eastern edge of a gilgai and drainage depression, exposed by animal tracks. Numerous heat retainers located in proximity.
DEHS-2023-HIF1	Hearth, isolated find	Watercourse (first/second order)	384,045	6,118,714	No	Located on eastern side of gilgai depression on terminal end of drainage line. Almost no visibility. One quartz micro flake with hinge termination eroding from ant's nest on erosion scald. Potential in situ hearth measuring 1.5 m x 1.5 m.
DEHS-2023-HIF2	Hearth, isolated find	Watercourse (first/second order)	385,346	6,118,404	No	Tentative quartz flake and multiple scattered potential heat retainers exposed on access track on eastern edge of gilgai/drainage depression.
DEHS-2023-HIF3	Hearth, isolated find	Alluvial plain	387,243	6,118,461	No	Low-quality quartz flake with platform and retouch located by dam, located nearby is a grey smooth heat retainer.
DEHS-2023-HAS1	Hearth, artefact scatter	Alluvial plain	386,986	6,117,838	No	>10 artefacts and a potential in situ hearth exposed on access track on eastern side of large billabong/gilgai depression. Stone artefacts include – one poor quality yellow silcrete backed flake with some cortex, blue silcrete flake, three quartz flakes, blue chert flake piece, two water-rolled quartz flakes. Yellow clay heat retainer, RAPs suggest the yellow could be from ochre (would be imported to area). Site is likely associated with nearby sites AS2, H3, H2, AS5 and H1.
DEHS-2023-HAS2	Hearth, artefact scatter	Watercourse (first/second order)	385,764	6,118,545	No	Located on the eastern edge of a gilgai and drainage depression, start of a marshy wetland. Polished sandstone grinding plate fragment with polish on both sides, grooves thumb sized. A potential glass artefact, a thick green bottle base with potential negative scar. Potential in situ hearth/oven mound - symmetrical bluey grey burnt clay nodules buried in a raised mound measuring 3 m x 2 m. An eroded hearth base measuring 60 cm x 60 cm located 35 m west. Lots of historic rubbish, metal, and glass in area, which is used for a tip and slash pile burning area.

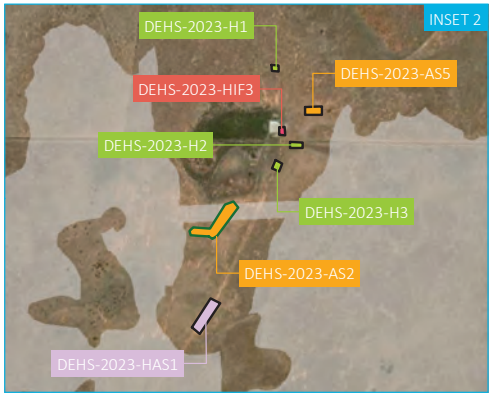
Table 6.3 Aboriginal sites identified during survey

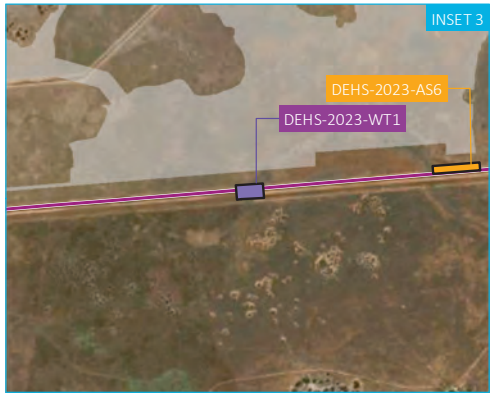
Site name	Site type	Landform	Easting	Northing	Within development footprint	Description
DEHS-2023-HAS3	Hearth, artefact scatter	Watercourse (first/second order)	384,517	6,118,588	No	Located on eastern side of gilgai depression and drainage depression. Lots of disturbance in area from dam excavation, abandoned water tanks, and metal debris. Three stone artefacts, one complete silcrete flake with 5% cortex, one white quartzite flake with three negative scars, one quartz angular fragment. One potential eroded hearth, measuring 1 m x 50 cm wide and >10 clay balls, possible heat retainers, scattered in an area of 50 m^2. Exposure is high (70%), and visibility is low (30%).
DEHS-2023-HAS4	Hearth, artefact scatter	Alluvial plain	386,001	6,117,645	Yes	Located on the eastern side of a gilgai depression, in proximity to access track. Potential eroded hearth remains partially obscured by ant's nest. Several stone flakes - one quartz flake with a snapped distal end, one tiny low quality quartz flake, and one possible sandstone grinding topstone/axe blank.
DEHS-2023-WT1	Women's tree, isolated find	Alluvial plain	392,577	6,117,041	No	Very large river red gum tree, expected to be of some antiquity, with branches that appear to have been trained to grow into the ground providing a dome on the northern side. Circumference of trunk is 5 m; tree is alive and standing. Identified by one of the male RAPs as a potential women's tree. Isolated quartz flake located 10 m north-west of tree. Tree located within narrow paleochannel mapping, very prominent feature in the landscape and only river red gum remaining. Of high cultural significance.
DEHS-2023-ST1	Culturally modified tree	Alluvial plain	394,006	6,118,538	No	Potential scar tree. Grey box alive and standing. West facing scar 160 cm x 40 cm x 8 cm deep, 55 cm off the ground. Outside development footprint.
DEHS-2023-ST2	Culturally modified tree	Alluvial plain	394,026	6,118,536	No	Potential scar tree. Grey box alive and standing. West facing scar 143 cm x 27 cm x 14 cm deep, 25 cm off ground. Outside development footprint.
DEHS-2023-ST3	Culturally modified tree	Watercourse (first/second order)	384,518	6,120,165	No	Potential scar tree. Identified by Roley Williams as natural on 8 May 2023. Noted as cultural by Mark Saddler and Roland Atkinson on 14 May 2023. Tree is grey box, alive, standing, beside access track. Two scars. First scar south-west facing 110 cm x 22 cm x 14 cm deep, 35 cm off ground. Second scar west facing, 90 cm x 16 cm x 17 cm deep, 25 cm off ground. Outside development footprint.

Table 6.3 Aboriginal sites identified during survey

Site name	Site type	Landform	Easting	Northing	Within development footprint	Description
DEHS-2023-ST4	Culturally modified tree	Watercourse (first/second order)	383,641	6,120,269	No	Potential scar tree. No information recorded except location. Assumed to be grey box, alive and standing. Outside development footprint.
DEHS-2023-ST5	Culturally modified tree	Watercourse (first/second order)	387,075	6,121,441	No	Potential scar tree. Grey box alive and standing. Length 45 cm x 15 cm, depth 7 cm, distance from ground 95 cm. Evident axe mark. Outside development footprint.
DEHS-2023-ST6	Culturally modified tree	Watercourse (first/second order)	387,193	6,121,537	No	Potential scar tree with two scars. Grey box alive and standing. Left scar — width 25 cm, length 50 cm, depth 20 cm, from ground 95 cm. Right scar – width 12 cm, length 65 cm, depth 25 cm, distance from ground 1 m. Displays possible chainsaw markings, RAPs note potentially from vandalism. Outside development footprint.







KEY

- Study area
- Development footprint

Field survey results

- Artefact scatter
- Culturally modified tree
- Hearth
- Hearth, artefact scatter
- Hearth, isolated artefact
- Isolated artefact
- Women's tree, isolated artefact

Potential impact

- Direct impact
- Direct impact (partial)
- No impact

Strahler stream order

- 1
- 2
- 3

Existing environment

- Major road
- Minor road

0 2.5 5 km

GDA2020 MGA Zone 55

N

Source: EMM (2023); DFSI (2020, 2021); ESRI (2022); GA (2011)

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Field survey results

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 6.2

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6.3 Test excavations

6.3.1 Approach and methods

EMM conducted an archaeological test excavation of two localised areas with the assistance of the RAPs, over a seven-day period from 22 May to 2 June 2023. These works were undertaken in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010) and consisted of small manually dug test pits in transects across two discrete areas within the development footprint identified during the survey as having the potential for shallow subsurface cultural materials. The excavation was directed by Megan Sheppard Brennand (EMM Senior Archaeologist) with the archaeological team consisting of Samuel Elias, Peter Douglas, and Courtney Culley (EMM archaeologists). A number of stakeholder groups were represented throughout the course of the excavation program; a list of these groups is presented in Table 6.4.

The primary aims of the excavations were as follows:

- identify, map, and characterise the nature, age, extent, integrity and significance of the Aboriginal cultural material within the development footprint considered as part of the EIS
- better assess the significance and historical meaning of the cultural materials that exist within the development footprint so that future archaeological investigation can advance our understanding of past Aboriginal cultural behaviour and environmental adaptation
- direct future heritage activities and mitigation measures (if required) for the development footprint.

To achieve these aims, the areas of sensitivity both proposed by Austral (2021) and additional desktop information have been validated and refined by the field survey (Section 6.2). Subsequent areas of moderate archaeological potential situated within the development footprint considered as part of the EIS were subject to test excavation. These included an extensive, low-density artefact scatter (DEHS-2023-AS3) referred to as Area A, and a potential hearth and isolated artefact site (DEHS-2023-HIF1) referred to as Area B, both situated on the eastern side of gilgai depressions. Area A consisted of over 60 stone artefacts eroding from the surrounding grassy hummocks onto an expansive erosion scald. Area B contained a small quartz flake and a potential hearth site in an area with almost no visibility. A localised systematic grid of test pits was proposed to extend across these two discrete areas within the development footprint, to determine the extent, if any, that these thick grassy areas of limited visibility had potential shallow subsurface cultural materials. The proposed test excavation layout was undertaken in discussion with the RAP representatives.

The excavations achieved the aims outlined above and provide an understanding of the cultural materials present across the development footprint. Overall, 63 test pits were completed, these were located on the eastern side of two gilgai depressions where remnant topsoil was still present, in comparison to heavy clay across the majority of the development footprint. In addition, a transect trench was excavated through a potential hearth site (DEHS-2023-H5) to determine the nature of this site type across the development footprint.

Archaeological test excavations were implemented in accordance with Requirements 16 and 17 of the *Code of Practice for the Investigation of Aboriginal Objects in NSW* (DECCW 2010). In summary, the following methods were adopted for the excavation:

- all test excavation pits were spatially located using a differential GPS device
- manual excavation of 0.25 m² test pits in a systematic grid across areas of archaeological interest within the development footprint
- all excavation used hand tools, such as shovels, mattocks and trowels
- excavation of the first unit was in 5 cm spits, with subsequent excavation in 10 cm spits

- manual excavation continued to either: i) the base of the cultural deposits or ii) to the depth of the underlying geology
- soil profiles were recorded in accordance with the *Code of Practice for the Investigation of Aboriginal Objects in NSW* (DECCW 2010), including scaled drawings, photographs, and written descriptions.

Table 6.4 Aboriginal representatives involved in the test excavation

Organisation	Representative
Griffith Local Aboriginal Land Council	Roslyn Simpson
Bidya Marra Consultancy	Bruce Crowe Jason Crowe
Bundyi Aboriginal Cultural Knowledge	Mark Saddler
Bangarang Aboriginal Corporation	Roland Atkinson Clinton Edwards
Roley Williams	Roley Williams Jason Matthews

Additional areas of archaeological potential (including within proximity to the paleochannel shown on Figure 6.2) were recommended for test excavation following the completion of field surveys; however, through design refinements, direct impacts to these areas have been avoided and test excavation is no longer required.

6.3.2 Results

Overall, a total of 63 test pits (0.25 m^2) were excavated and one transect trench through a hearth site (DEHS-2023-H5). There were two areas of excavation labelled Area A and Area B, with 33 test pits excavated in Area A and 30 test pits excavated in Area B, including a test pit over a portion of the potential hearth and artefact site, DEHS-2023-HIF1. The depth of excavation across the test pits averaged ~10 cm (below current ground surface), but with a number excavated to 20 cm. All excavated soils were dry-sieved. Spatially, these test pits were situated on the eastern side of the gilgai where topsoil was present.

Two of the 63 test pits (~3%) contained artefacts (Figure 6.3) with a total of two stone artefacts recovered. The stone artefacts were recovered from sediments excavated to 10 cm below the current ground surface with all of the assemblage recovered between depths of 0 cm–10 cm. When extrapolating each 0.25 m^2 test pit to 1 m^2, which is commonly how artefact densities are discussed in the archaeological literature, an extrapolated average density of 0.1/m^2 was found. A test pit over the potential hearth site DEHS-2023-HIF1 was excavated to a depth of 15 cm, which demonstrated that the charcoal markings on the surface remained linear and surficial and did not extend further into the topsoil as would be expected for a hearth. It was determined this was likely the result of a surface burn possibly of a tree, root or burning off other vegetation. The surrounding area was inspected for the isolated quartz flake that was documented in the original recording; however, it was unable to be relocated.

A transect trench (230 cm x 30 cm) was excavated through DEHS-2023-H5 to examine the characteristics of this site type. The trench was excavated to a maximum depth of 30 cm, where the B horizon was found below the hearth. No artefactual material was found within the trench and no modern material or disturbance was found. The base of the hearth was found at approximately 30 cm below the ground surface. The pH at base of the hearth within the charcoal layer was neutral (7.5) and was also found to be neutral when taken from a soil sample 20 m away and one taken a few kms away. This was done multiple times on different days with different pH kits with the same results.

Plate 6.23 Landform example, taken from TP8 (Area A), view north

Plate 6.24 General stratigraphy, image taken from TP8 (Area A), view north

Plate 6.25 DEHS-2023-H5 prior to excavation

Plate 6.26 DEHS-2023-H5 post excavation

i Stratigraphy

The soil profiles encountered across the 63 test pits were generally consistent and can be described as follows:

1. Within 200 m of the gilgai depressions:
    - i) (skeletal A horizon comprising fine grained brown, orange silt
    - ii) orange, brown fine silty clay loam (A1 horizon) averaging ~10 cm depth, overlying
    - iii) (dark, brown cracking plastic clay found between 3-10 cm (B horizon)
2. Within 20 m of the gilgai depressions:
    - i) grey silty loam (A horizon)
    - ii) grey clay loam (A1 horizon)
    - iii) dark, brown cracking plastic clay found between 3–10 cm (B horizon)
3. Hearth stratigraphy
    - i) fine grained orange-brown silt with rootlets
    - ii) silty grey loam with rootlets
    - iii) brown plastic cracking clay

All soil profiles are consistent with the vertosol soil type. Both the topsoil and subsoil units do not exceed 20 cm before reaching the end of the cultural bearing layer. A differentiation between the A and B horizons within these soil profiles is identifiable through a sub-plastic silt layer, with a clay density of roughly 35%, and a clearly visible plastic clay layer. All artefacts were identified within the A horizon.

There is a clear differentiation in colouration between the first and second soil profiles (Plate 6.27 and Plate 6.28). The second soil profile (Plate 6.28), associated with gilgai soils, is clearly defined as grey, while the first soil profile (Plate 6.27) is orange and brown.

On-site testing has verified a neutral pH level for all soil profiles. These soil profiles may relate with the 'transitional red-brown earths' soil profile, that incorporates grey gilgai soils and has an average pH level of 6.1 to 8.5, previously identified within soil inspections of the surrounding Coleambally area (Van Dijk & Talsma 1964, p. 19 & 33).

No deep alluvial units or sand bodies were encountered across the test excavation program, and within which stratified or cultural material may occur.

Examples of the stratigraphy for Area A, Area B, and DEHS-2023-H5 are shown in Plate 6.27, Plate 6.28 and Plate 6.29, respectively.

Plate 6.27 Area A stratigraphy, view of TP31 located 112 m east of gilgai soils

Plate 6.28 Area B stratigraphy, view of TP54 located within gilgai soils

Plate 6.29 DEHS-2023-H5 showing stratigraphy, central section, view north-west

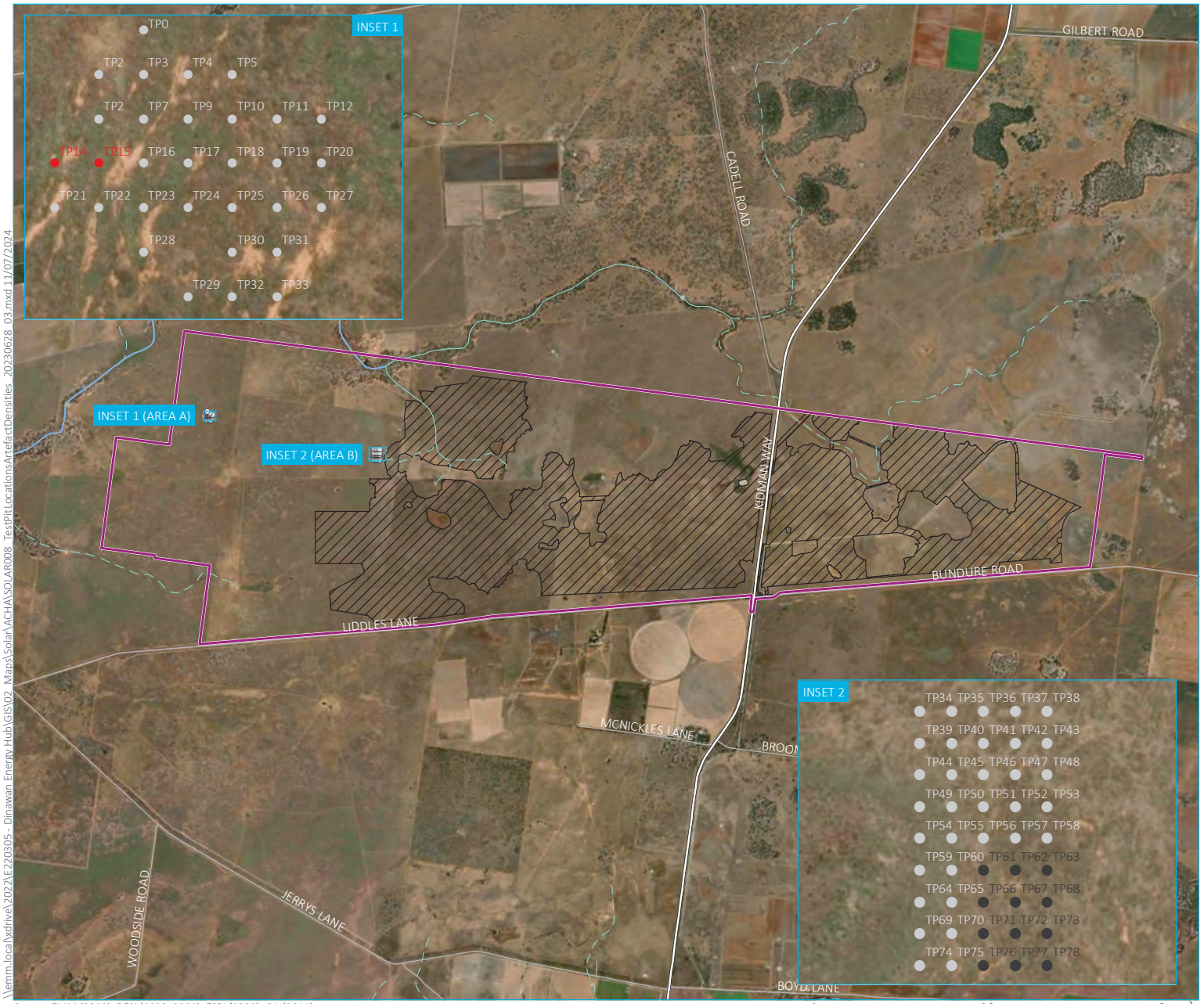
ii Lithics

Overall, a total of 2 stone artefacts were recovered from 2 test pits, representing an average artefact density of 0.1 artefacts/m². These artefacts were both recovered from Area A in TP15 and TP4, respectively (Figure 6.3). There was one quartz (TP15) and one silcrete (TP4) flake recovered. No formal tools were identified. Both of these artefacts were found within soil profile 1, within 200 m of the gilgai, and stratigraphy unit ii, between 0 cm–10 cm below the ground surface. No raw material was found within Area B and very little was found in Area A.

With such a small assemblage, it is difficult to determine the chronology of the site through the lithics alone. The small assemblage provides limited opportunity for further analysis of interpretation of past behaviours. The densities and values of these sites are significantly less than the surface finds in the study area and other sites excavated within the region.

Plate 6.30 Quartz flake from TP4 (Area A), with 8 cm scale card

Plate 6.31 Silcrete flake from TP15 (Area A), with 8 cm scale card



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Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

Test pit locations and artefact densities

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Aboriginal Cultural Heritage Assessment
Figure 6.3

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7 The archaeological resource

7.1 Key findings

- The assessment undertook archaeological field survey and test excavations to explore and document the Aboriginal objects and sites within the development footprint, and to align them within the regional context. Overall, the regional context has extensive archaeological information, with numerous archaeological sites including many of Pleistocene age (>10,000 years), as well as historical and post-contact places including reserves and missions. The regional archaeological record is characterised by artefact sites, earth mounds, hearths, culturally modified trees and burials. Overall, the findings of this ACHA largely conformed with the regional model (see Figure 6.2). Aside from the aeolian sand sheet and paleochannel mapping in the south-eastern corner of the study area, burials were assessed as unlikely to be found in the remaining development footprint due to extensive prior ground disturbance. Almost all sites identified during the survey were found in association with water sources, be it drainage lines or gilgai depressions and small wetlands.

- The various site validation activities undertaken over a four-month period, resulted in the duplication and overlap of results presented in Sections 5.4, 6.2.2, and 6.3.2. When combining and ratifying these findings, there are eight identified sites remaining within the development footprint. These comprise:

    - three artefact scatters of moderate significance (DEHS-2023-AS1, DEHS-2023-AS4 and DEHS-2023-AS2)

    - three isolated stone artefacts of moderate significance (DEHS-2023-IF1, DEHS-2023-IF4 and DEHS-2023-IF6)

    - one hearth of moderate significance (DEHS-2023-H4) - further investigation is required if direct impact occurs

    - one hearth and artefact scatter of high significance (DEHS-2023-HAS4).

7.2 Results and synthesis

7.2.1 Previous investigations

Past studies and previously documented Aboriginal heritage within the region have provided a relatively robust archaeological model of the region around the study area. Specifically, they have demonstrated that the archaeological record is dominated by stone artefact sites, earth mounds, hearths, culturally modified trees and burials, generally found in association with watercourses, rivers, wetlands, ephemeral lakes and gilgai. Despite the extensive history of irrigation agriculture and other agricultural activities in the region, and very limited visibility and/or exposures observed during the field investigations of nearby projects, nearly all archaeological investigations in the locality resulted in the documentation of Aboriginal cultural heritage. Most sites were documented on alluvial and flat plains, in association with water sources ranging from ephemeral drainage lines, perennial creeklines, dry lakes and lunettes, swamps and wetlands, and palaeochannels. This demonstrates both the importance of water in this semi-arid climate and the prevalence of water sources throughout the region, supporting both long-term occupation sites identified by earth mounds, hearth complexes, burial sites, and open artefact scatters, as well as transient campsites along smaller, ephemeral water sources across the alluvial plains.

7.2.2 Findings of this report

The results of this ACHA support the findings of the broader regional studies and the predictive model, with the documentation of 35 previously undocumented sites within and in proximity to the study area comprising: eight low-density artefact scatters, seven hearths, six isolated artefacts, six culturally modified trees, four hearths with artefact scatters, three hearths with isolated artefacts, and one potential women's tree with an isolated quartz flake. Most of the raw stone materials comprised quartz, silcrete, quartzite, and to a lesser extent sandstone, chert, IMT and hornfels. The assemblage is characterised by small, highly worked flakes and angular shatter, as well as several blades, micro flakes with retouch on the lateral margins, two polished sandstone grinding implements, a potential glass artefact, and minimal cores. Less than 1% of the artefacts identified during survey or recovered during the test excavations contained cortex, indicating that the natural sources of these raw materials are located some distance from the study area, resulting in the high utilisation of the materials available on hand. The test excavation program indicated that the archaeological record within the development footprint is characterised by surface artefacts, and the results of the excavation of two potential hearth sites demonstrate that these features can be of both natural (DEHS-2023-HIF1) and anthropogenic (DEHS-2023-H5) origins. All sites were situated in proximity to ephemeral drainage lines, wetlands, the eastern side of gilgai depressions, or the paleochannel and aeolian sand sheet. Though most of the hearth sites have a tentative status classification, it is noteworthy that almost all are situated in proximity to more hearth and artefact sites, along drainage lines or large ephemeral wetlands, and likely representative of occupation sites. The few low-density artefact scatters and isolated artefacts that were recorded across the alluvial plain are likely representative of the transient use of the small, shallow gilgai depressions scattered across the alluvial plains.

Overall, when removing the sites that have been avoided by project redesign (including since public exhibition of the EIS), and combining and ratifying the information above, the development footprint can be considered to encompass eight Aboriginal sites and/or objects:

- One area of potential foci and activity is the hearth site DEHS-2023-H4 situated within the development footprint, despite being situated ~160 m from the ephemeral creekline. Hearth sites typically have a high research potential since they can provide information on timing of their use and what resources have been cooked. Numerous academic studies have used the systematic investigation of hearths in semi-arid environments to provide important past regional use. However, it must be noted that the limited archaeological excavation of these features within the development footprint to date, such as DEHS-2023-HIF1, have shown they have the potential to be formed through natural processes (e.g. burnt tree boles and/or roots), as such further investigation is required to confirm this site is of anthropogenic origin.

- DEHS-2023-HAS4 comprises an eroded hearth base, two quartz flakes and sandstone ground implement/axe blank. While eroded hearths have limited research potential, they are still important for understanding past regional use of the landscape, particularly in semi-arid and highly disturbed landscapes. They demonstrate that a particular location was desirable for cooking, indicating that water and/or food sources were likely nearby. They also demonstrate the level of erosion and soil loss that has occurred in the landscape since their origin. The sandstone grinding implement/potential axe blank is noteworthy, and discussion with the RAPs on-site suggested the implement was traded or transported as sandstone does not exist naturally in the area. The use-wear on the implement suggests it was used for both grinding (e.g. seed into flour) and several retouch scars suggest it was potentially being shaped into an axe. This is characteristic of landscapes with limited raw resources, where stone materials are valuable, and tools serve multiple purposes.

- The remaining sites are low-density artefact scatters (<15 artefacts, ~1 artefact/m^2) comprising DEHS-2023-AS1, DEHS-2023-AS2 and DEHS-2023-AS4, and isolated artefact sites DEHS-2023-IF1, DEHS-2023-IF4 and DEHS-2023-IF6. These sites are generally of low scientific significance and reflect the long-term, transient use of the entire landscape by Aboriginal people in the past.

8 Significance assessment

8.1 General

All Aboriginal objects in NSW are protected under the *National Parks and Wildlife Act 1974. It is* recognised that the destruction of sites may be necessary to allow other activities or developments to occur if they cannot be avoided. For the consent authority to make informed decisions on such matters, an important element of cultural heritage management is determining the significance of cultural heritage places to understand what may be lost and how best it can be mitigated.

Cultural significance is outlined in Article 1.2 of the *Burra Charter* – the best practise document for managing cultural heritage – as 'aesthetic, historic, scientific, social or spiritual value for past, present or future generations' (Australia ICOMOS 2013). These values are reiterated in the NSW guidelines, which determines that cultural significance of a place can be assessed by identifying the values that are present across the subject area and assessing what is important and why (OEH 2011). In assessing the scientific significance of sites, aspects such as rarity and representativeness and the integrity must be considered. Generally speaking, a site or object that is rare will have a heightened significance, although a site that is suitable of conservation as 'representative' of its type will also be significant. Conversely an extremely rare site may no longer be significant if its integrity has been sufficiently compromised.

The criteria adopted for this report are defined in Table 8.1. The management implications of these sites' significance are discussed in subsequent sections.

Table 8.1 A summary of criteria used to assess the cultural significance

Criterion	Definition
Social value – Does the place have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons?	Social (or cultural) value 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. Social or cultural value can only be identified through consultation with Aboriginal people.
Historic value – Is the place important to the cultural or natural history of the local area and/or region and/or state?	Historic value refers to the association of a place with a historically important person, event, phase or activity. Historic places do not always have physical evidence of their historical importance (such as structures, planted vegetation or landscape modifications). They may have 'shared' historic values with other (non-Aboriginal) communities.
Scientific (archaeological) value – Does the place have potential to yield information that will contribute to an understanding of the cultural or natural history of the local area and/or region and/or state?	Scientific (archaeological) value 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. Information about scientific values is gathered through archaeological investigation undertaken in this report.
Aesthetic value – Is the place important in demonstrating aesthetic characteristics in the local, regional, and/or State environment?	Aesthetic value refers to the sensory, scenic, architectural and creative aspects of the place. It is often linked with social value, and can consider form, scale, colour, texture and material of the fabric or landscape, and the smell and sounds associated with the place and its use. This value is only relevant to archaeological sites on only rare occasions, such as rock shelters that contain art, or culturally modified trees in prominent positions, etc.

Source: OEH (2011, p.8-10).

8.2 Statement of significance

This assessment identified 35 discrete Aboriginal sites within and in proximity to the development footprint (see Table 6.3,Figure 6.2), characterised by low-density artefact sites, hearths and culturally modified trees associated with water sources, either ephemeral drainage lines and/or gilgai depressions, which aligns well with the broader archaeological record of the region.

For the purposes of significance assessment, all sites have been assigned a classification, even where they are only identified as of tentative status to allow the ACHA to be completed. It must be noted that validation of these sites, some of which are ranked as moderate or high (i.e. regional) importance may require their significance to be re-classified in the future. A range of recommendations to further clarify the classification of these sites is proposed in Chapter 10 to resolve this uncertainty where required.

When considering the scientific significance, several of the sites can be considered to have moderate (local) or high (regional) significance with the ability to provide information on the past activities of the area (research potential). These sites are generally the hearth sites, particularly those with artefacts, whereby excavation of the hearth and subsequent collection and dating of charcoal and soil samples can provide a relative age for the sites, which would contribute to a better understanding of Aboriginal occupation in the locality.

Additionally, the potential women's tree site (DEHS-2023-WT1), if confirmed by local female elders to be such, would be a rare site, an aspect which forms a part of the significance criterion. While culturally modified trees are well documented in the regional landscape, women's sites are rare, and the association of the site with an old paleochannel would attribute to the site's antiquity.

The rest of the identified sites, namely the culturally modified trees and artefact sites, are considered to have limited, if any research potential. While important in demonstrating the longevity and continued used of the region by Aboriginal people in the past, they are well represented in the region, and it is considered that little further information can be obtained from additional investigation of these sites.

Table 8.2 provides a summary of the significance values for each Aboriginal object and/or site identified. Sites requiring further investigation and/or validation are considered of a tentative status and are indicated with red font within the table.

Table 8.2 Significance of Aboriginal objects and/or sites identified within or in proximity to the development footprint

Site	AHIMS #	Site type	Brief description	Site status	Significance				
					Scientific	Aesthetic	Historical	Cultural	Overall
DEHS-2023-AS1	55-1-0083	Artefact scatter	Four stone artefacts exposed on a scald adjacent to borrow pit.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-AS2	55-1-0084	Artefact scatter	Fifteen stone artefacts exposed on access track.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-AS3	55-1-0085	Artefact scatter	Over 60 stone artefacts exposed on the eastern side of a gilgai depression. Includes a crystal quartz flake, possibly indicative of men's activities. Site was subjected to test excavation and recovered two subsurface flakes.	Partially destroyed	Low	-	-	Moderate	Moderate
DEHS-2023-AS4	55-1-0086	Artefact scatter	Four stone artefacts exposed on an erosion scald on the northern edge of a small wetland.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-AS5	55-1-0096	Artefact scatter	Two stone artefacts exposed on an erosion scald adjacent to an access track.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-AS6	55-1-0095	Artefact scatter	Three stone artefacts exposed on an access track and associated with aeolian sands mapping and in proximity to a potential paleochannel.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-AS7	55-1-0094	Artefact scatter	Two stone artefacts exposed on an erosion scald adjacent to creekline.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-AS8	55-1-0099	Artefact scatter	One large manuport, three silcrete flakes, and one crystal quartz flake identified on an erosion scald in proximity to an ephemeral drainage line. Exposure high (70%), visibility low (10%).	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-IF1	55-1-0082	Isolated find	One quartz flake located on an erosion scald on the eastern side of a gilgai depression.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-IF2	55-1-0080	Isolated find	Polished river pebble with some markings, unusual raw material. Located on an exposure along the drainage line in proximity to a dam.	Valid	Low	-	-	Moderate	Moderate

Table 8.2 Significance of Aboriginal objects and/or sites identified within or in proximity to the development footprint

Site	AHIMS #	Site type	Brief description	Site status	Significance				
					Scientific	Aesthetic	Historical	Cultural	Overall
DEHS-2023-IF3	55-1-0074	Isolated find	One quartz flake located on an erosion scar on the eastern side of a small wetland.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-IF4	55-1-0075	Isolated find	One silcrete flake exposed on an irrigation channel in a wetland.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-IF5	55-1-0073	Isolated find	One silcrete flake exposed in an irrigation trench on the eastern side of a gilgai depression.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-IF6	55-1-0072	Isolated find	One quartz flake located the eastern side of a gilgai depression, exposed on an access track.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-H1	55-1-0093	Hearth	One potential in situ hearth exposed on an erosion scald and partially obscured by an ant's nest.	Tentative	Moderate	-	-	Moderate	Moderate
DEHS-2023-H2	55-1-0092	Hearth	Two potential in situ hearths with ashy clay heat retainers protruding from ground surface, exposed by cattle track.	Tentative	Moderate	-	-	Moderate	Moderate
DEHS-2023-H3	55-1-0091	Hearth	One potential in situ hearth with clay heat retainers exposed by a cattle track.	Tentative	Moderate	-	-	Moderate	Moderate
DEHS-2023-H4	55-1-0090	Hearth	Two potential in situ hearths exposed on an access track. One hearth measures 3 m in length and the second measures 30 cm in diameter.	Tentative	Moderate	-	-	Moderate	Moderate
DEHS-2023-H5	55-1-0089	Hearth	One potential in situ hearth measuring 2 m x 2 m located along a drainage depression. A sample of this site was subjected to test excavation which proved the hearth to be of anthropogenic origins.	Partially destroyed	High	-	-	High	High
DEHS-2023-H6	55-1-0088	Hearth	One potential in situ hearth measuring 1 m x 1 m exposed by an animal track, located along drainage depression.	Tentative	Moderate	-	-	Moderate	Moderate
DEHS-2023-H7	55-1-0087	Hearth	One potential in situ hearth measuring 2 m x 1 m located on the eastern edge of a gilgai and drainage depression, exposed by animal tracks.	Tentative	Moderate	-	-	Moderate	Moderate

Table 8.2 Significance of Aboriginal objects and/or sites identified within or in proximity to the development footprint

Site	AHIMS #	Site type	Brief description	Site status	Significance				
					Scientific	Aesthetic	Historical	Cultural	Overall
DEHS-2023-HIF1	55-1-0102	Isolated find	One quartz flake exposed on the eastern side of a gilgai depression. Site was subjected to test excavation which confirmed the hearth was natural. The isolated flake could not be relocated.	Valid	Low	-	-	Low	Low
DEHS-2023-HIF2	55-1-0103	Hearth, isolated find	One quartz flake and several scattered potential heat retainers exposed on an access track on the eastern side of a gilgai depression.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-HIF3	55-1-0081	Hearth, isolated find	One quartz flake and ashy heat retainer exposed adjacent to a dam.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-HAS1	55-1-0076	Hearth, artefact scatter	Ten stone artefacts and a potential in situ hearth exposed on an access track on the eastern edge of a gilgai depression. One yellow clay heat retainer potentially containing ochre included in assemblage.	Valid	Moderate	-	-	Moderate	Moderate
DEHS-2023-HAS2	55-1-0077	Hearth, artefact scatter	Two hearths – one eroded hearth base and one potential in situ hearth/oven mound with a polished sandstone grinding plate fragment and a potential glass artefact. Site is situated in a wetland with lots of historic rubbish and where cleared vegetation slash piles have been routinely stockpiled and burned.	Tentative	High	-	-	High	High
DEHS-2023-HAS3	55-1-0078	Hearth, artefact scatter	Three stone artefacts and one eroded hearth base with many scattered potential heat retainers exposed on the eastern side of a gilgai depression.	Valid	Low	-	-	Moderate	Moderate
DEHS-2023-HAS4	55-1-0079	Hearth, artefact scatter	One eroded hearth base partially obscured by an ant's nest, and three stone artefacts exposed on a scald on the eastern side of a gilgai depression. One possible sandstone grinding topstone/axe blank is included in the assemblage.	Valid	Low	-	-	High	High
DEHS-2023-WT1	55-1-0101	Women's tree, isolated find	One very large river red gum tree identified as a potential women's tree and one quartz flake exposed on an adjacent access track.	Tentative	High	High	-	High	High

Table 8.2 Significance of Aboriginal objects and/or sites identified within or in proximity to the development footprint

Site	AHIMS #	Site type	Brief description	Site status	Significance				
					Scientific	Aesthetic	Historical	Cultural	Overall
DEHS-2023-ST1	55-1-0069	Culturally modified tree	A potential culturally modified tree located in wetland.	Tentative	Low	Moderate	-	Moderate	Moderate
DEHS-2023-ST2	55-1-0070	Culturally modified tree	A potential culturally modified tree located in wetland.	Tentative	Low	Moderate	-	Moderate	Moderate
DEHS-2023-ST3	55-1-0071	Culturally modified tree	A potential culturally modified tree situated in a drainage line.	Tentative	Low	Moderate	-	Moderate	Moderate
DEHS-2023-ST4	55-1-0068	Culturally modified tree	A potential culturally modified tree situated in a drainage line.	Tentative	Low	Moderate	-	Moderate	Moderate
DEHS-2023-ST5	55-1-0097	Culturally modified tree	A potential culturally modified tree situated in a drainage line.	Tentative	Low	Moderate	-	Moderate	Moderate
DEHS-2023-ST6	55-1-0098	Culturally modified tree	A potential culturally modified tree situated in a drainage line.	Tentative	Low	Moderate	-	Moderate	Moderate

Notes:

1. Sites requiring further investigation and/or validation, are ranked based on the assumption the site proves valid. However, their significance should be revisited when further analysis and classification occurs. These values are presented in red to demonstrate their tentative status.
2. The overall significance is comparable with the highest ranking achieved in any of the four main criteria.

9 Impact assessment

9.1 Key findings

- The project includes the establishment of new infrastructure including a network of approximately 2 million solar PV panels and associated infrastructure, BESS and associated infrastructure, an electrical collection system, substations and control room, operations and maintenance infrastructure, temporary construction facilities (including a temporary worker accommodation facility), grid connection infrastructure and public road upgrades on Kidman Way and Bundure Road at their intersection. The amended project area is larger than the development footprint, which has been refined to avoid and minimise impacts to environmental and cultural heritage values. The amended project area is 3,257 ha; however, the construction and operation of the project within the development footprint will result in the disturbance of up to approximately 1,792 ha of land.

- Since public exhibition of the EIS, the development footprint has been further refined to an area of 1,792 ha (an approximately 28% reduction). As part of this amended ACHA, survey coverage within the amended development footprint has been calculated as ~61.5% or ~1,101 ha. Amendments to the development footprint have facilitated the avoidance of Aboriginal sites of high archaeological and cultural significance, where feasible.

- A total of 35 sites, comprising a total area of approximately 20.4 ha, were identified during the survey within or in proximity to the development footprint. Project redesign has resulted in the avoidance of the majority of these sites. One site (DEHS-2023-HIF1) was considered 'destroyed' during field investigations (as a result of test excavation confirming the hearth to be natural and the isolated find was unable to be relocated). Eight sites, comprising a total area of approximately 1.1 ha remain within the development footprint that will be subject to direct impacts. The project will result in:

    - the complete loss of value of seven Aboriginal sites (DEHS-2023-AS1, DEHS-2023-AS4, DEHS-2023-IF1, DEHS-2023-IF4, DEHS-2023-IF6, DEHS-2023-H4 and DEHS-2023-HAS4)

    - the partial loss of value of one Aboriginal site (DEHS-2023-AS2).

- While the project will result in intergenerational/cumulative loss to cultural materials, it is considered that there will be some cultural heritage benefits. These include the long-term curation of cultural material that may be submitted to future academic research and study, a greater understanding of the past and contemporary values in the region and opportunities for heritage interpretation and public outreach.

9.2 Avoidance and re-design

The development and refinement of the project's development footprint (i.e. the area within which direct surface disturbance will occur) has been iterative throughout the assessment process and has been informed by the findings of the ACHA as they have become available. Changes have included:

- avoidance of higher order watercourses and areas of higher archaeological potential identified in initial archaeological constraints modelling (including a riparian corridor north of the development footprint where DEHS-2023-AS7, DEHS-2023-ST3, DEHS-2023-ST4, DEHS-2023-ST5 and DEHS-2023-ST6 were identified)

- reduction in the extent of the eastern portion of the development footprint to provide further setbacks to the potential women's tree (DEHS-2023-WT1) and an artefact scatter (DEHS-2023-AS6), which are both associated with the aeolian sand sheet and paleochannel

- reduction in the extent of the western portion of the development footprint to avoid:
    - most of the hearth sites around a drainage line and a complex of hearth and artefact sites around a wetland towards the centre of the western portion of the development footprint (resulting in the avoidance of DEHS-2023-AS5, DEHS-2023-AS7, DEHS-2023-H1, DEHS-2023-H2, DEHS-2023-H3, DEHS-2023-H5, DEHS-2023-H6, DEHS-2023-H7, DEHS-2023-HAS1, DEHS-2023-HAS2, DEHS-2023-HAS3, DEHS-2023-HIF2, DEHS-2023-IF2, and DEHS-2023-IF5)
    - two artefact scatters of moderate significance (DEHS-2023-AS3 and DEHS-2023-AS8).

In addition, the extent of road upgrades proposed on Bundure Road has been limited to approximately 200 m east of the intersection with Kidman Way (Figure 1.3) and will avoid impacts to DEHS-2023-WT1, DEHS-2023-AS6, the paleochannel and aeolian sand sheet.

9.3 Project impacts

As outlined in Chapter 1, the project is seeking approval for the development of a large-scale solar PV generation facility and BESS, supported by associated infrastructure. In addition to these main components is the development of access tracks, public road upgrades on Kidman Way and Bundure Road, installation of operations and maintenance infrastructure, an electricity transmission line connecting the project substations to Dinawan Substation, temporary construction and laydown facilities (including a temporary construction accommodation facility) and security fencing. To determine how these impacts intersect with the environment, the ACHA considers both the amended project area and development footprint. The project is seeking approval for a proposed development footprint of approximately 1,792 ha.

While construction methods will be finalised through detailed design, construction and land preparation for a solar facility and associated infrastructure will generally require the removal of vegetation within the development footprint, resulting in impacts to the upper soil profile. Activities such as the installation of the BESS, substations, switch yards, access tracks, temporary construction and laydown facilities (including a temporary construction accommodation facility) and operations and maintenance infrastructure, as well as public road upgrades may require earthworks and could result in the total removal of the upper soil profile, within which cultural material is typically documented. Other construction activities (including the installation of PV modules) are likely to require less disturbance, but adverse effects on the underlying ground surface may still occur due to increased vehicle movements, compression, et cetera. This is particularly applicable to the development footprint, which has demonstrated shallow and highly eroded soils, where cultural materials are generally found on the surface or very shallowly buried. These activities will require removal of vegetation and other surface debris (e.g. loose stones, etc) prior to establishment.

Based on this, it is considered that any activities in the development footprint will result in complete harm/impact to any identified Aboriginal objects or sites within it.

9.4 Aboriginal heritage impact

Generally, two types of potential impact are considered, direct and indirect. Direct impact relates to the construction activities and their removal, truncation and/or disturbance of the ground surface. This would include the removal of vegetation, removal or modification of geological outcroppings, and the removal or disturbance of the upper soil profile. Indirect impacts are the result of both construction and post-construction activities that may result in environmental changes that would affect cultural material within, or near the project activities. General examples of indirect impacts may include the changing of view-lines to a site where visibility to/from the site is part of its values, or an increase in dust being blown into a rock shelter and negatively affecting art motifs should they be present.

All cultural material identified within the development footprint was either identified on the current land surface and/or buried within the upper ~0.1 m of the soil profile. As outlined in Section 10.2, project-related construction activities will result in direct impacts to these sites and deposits where situated within the development footprint (Table 9.1 and Figure 9.1).

Specifically, of the 35 documented sites identified within or in proximity to the study area, eight are situated within the development footprint and will be subject to direct impacts that will result in either the complete loss of value (DEHS-2023-AS1, DEHS-2023-AS4, DEHS-2023-IF1, DEHS-2023-IF4, DEHS-2023-IF6, DEHS-2023-HAS4 and DEHS-2023-H4) or partial loss of value (DEHS-2023-AS2). Potentially impacted sites are identified on Figure 9.1. These consist of three artefact scatters, three isolated artefacts, one eroded hearth base and artefact scatter and one potential hearth. However, one of these sites only has a tentative classification at this stage, and some may be within areas of ancillary activities where minor design changes may result in their conservation.

Importantly, of the Aboriginal sites that were identified as likely to be impacted in the first iteration of the development footprint, DEHS-2023-WT1 and DEHS-2023-HAS2, that were considered of high cultural value by the Aboriginal participants will remain unaffected (i.e. will not be impacted by the project and additional setbacks have been introduced). Impacts to the identified aeolian sand sheet and paleochannel and the majority of intact hearth and artefact sites have also been avoided through project refinement.

9.5 Intergenerational loss/equity

Ecologically sustainable development, or intergenerational equity, is the principle whereby the current generation should maintain the health, diversity, and longevity of the environment for the benefit of future generations. For Aboriginal heritage management, intergenerational equity can be considered primarily in terms of the cumulative impacts to Aboriginal objects, sites and/or places in a region. If few Aboriginal objects and places remain in a region (e.g. due to development impacts), there are fewer opportunities for future generations of Aboriginal people and the broader community to enjoy the cultural benefits. Information about the integrity, rarity, and representativeness of the Aboriginal objects, sites, and places that may be impacted, and how they inform the past visitation and occupation of land by Aboriginal people, are relevant to the consideration of intergenerational equity and the understanding of the cumulative impacts of a project. While not directly related to the ACHA process, such (future) impacts are also a critical issue for consideration under the *Native Title Act 1993* (see Annexure A for a brief discussion).

Overall, the project will potentially result in the destruction of eight identified Aboriginal sites, objects, and/or places (Section 9.4), representing 6.4 ha (31%) of the total amount of identified areas of past foci/occupation. These consist of four artefact scatters, four isolated artefacts, one eroded hearth base and artefact scatter and one potential hearth. The potential hearth DEHS-2023-H4 has been given a tentative status listing, with further investigation required to validate the site.

In contrast, several key sites and places will be avoided. As previously stated, these include the potential women's tree (DEHS-2023-WT1) and nearby artefact scatter (DEHS-2023-AS6) and their associated aeolian sand sheet and paleochannel, DEHS-2023-HAS2 (comprising a potential oven mound, grinding plate fragment and potential glass artefact), a wetland in the eastern portion of the development footprint containing nardoo and the majority of the potential in situ hearth and artefact sites identified as part of this ACHA.

While the project will result in loss of cultural materials, it must be acknowledged that increasingly, engagement on this topic is seeking to move beyond the material culture to a more holistic consideration of heritage. Holtorf (2015, p.412) states:

> The acts of changing, destroying or replacing a heritage object in the landscape can all be seen as forms of interpreting, using and transforming this heritage… The core values of heritage are increasingly deemed to reside in the meanings and values humans invest in heritage objects, not in their physical substance.

And (Holtorf 2015, p.408):

> …maintenance of the status quo of cultural heritage is widely perceived as being superior to any loss or possible substitution of that cultural heritage. But is it really justified in the interest of present or future generations to prioritise the conservation of existing cultural heritage over the prospect of gaining new cultural heritage [or knowledge of, and engagement with, that cultural heritage]?

Holtorf is not alone in his views, with DeSilvey and Harrison (2020, p.3-5) similarly stating:

> These kinds of statements about the future appear to normalise and lend moral weight to the mission of conservation practice, whilst detracting from a consideration of how the salvage paradigm in heritage is fundamentally premised on a system which is equally implicated in the sacrifice and loss of certain less valued cultural and natural formations alongside the preservation or conservation of more valued ones…
>
> Increasingly, heritage scholars are adopting integrated approaches to examine the politics of loss in both cultural and natural heritage contexts. A recent study of the effects of sea level rise on Kiribati, a low-lying island nation in the Pacific Ocean, for example, engages with questions about the extent to which an indigenous, largely oral culture can be 'preserved' outside its 'natural' and dynamic setting.
>
> …point to both the inevitability and the creative potential of loss and change. Such observations seem inescapable for heritage in light of the current recognition of the Anthropocene… it is clear that the more sophisticated ways of understanding, anticipating and engaging forms of heritage loss outlined here point not only to challenging new ways of 'doing' and practising natural and cultural heritage preservation, conservation and management but also map out important new lines of enquiry for heritage studies in the future.

When considering the potential impacts from this perspective, the current and proposed impacts of the project and associated material culture loss, can be considered to have some benefits. In the first instance, the considerable archaeological investigations in the Riverina region have significantly improved our archaeological and scientific understanding of a diverse and culturally ancient region, and the intimate connection with environmental and geological changes over time. While it is acknowledged that the project will cause impacts to Aboriginal heritage, the proposed management measures presented in Chapter 10 are anticipated to provide the local Aboriginal community with examples of site contents and opportunities to maintain a cultural connection with the landscape. The subsequent investigation of sites and salvage measures could help to achieve intergenerational equity by allowing retention of cultural materials for the enjoyment and education of future generations. Notably, DEHS-2023-HAS4, containing the sandstone grinding implement/axe blank was of particular interest to the Aboriginal participants as this stone material is uncommon in the locality. Additionally, a substantial local archaeological resource would remain as it is acknowledged that impacts to key sites and landforms will be avoided.

Table 9.1 Summary of potential impacts to Aboriginal objects and/or sites

Site	AHIMS #	Site type	Status	Significance	Type of harm	Location and/or activity causing harm	Degree of harm	Consequence of harm	Notes
DEHS-2023-AS1	55-1-0083	Artefact scatter	Valid	Moderate	Direct	Eastern portion of development footprint	Whole	Complete loss of value	
DEHS-2023-AS2	55-1-0084	Artefact scatter	Valid	Moderate	Direct	Transmission line (western portion of development footprint)	Partial	Partial loss of value	
DEHS-2023-AS3	55-1-0085	Artefact scatter	Partially destroyed	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-AS4	55-1-0086	Artefact scatter	Valid	Moderate	Direct	Western portion of development footprint	Whole	Complete loss of value	
DEHS-2023-AS5	55-1-0096	Artefact scatter	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-AS6	55-1-0095	Artefact scatter	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-AS7	55-1-0094	Artefact scatter	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-AS8	55-1-0099	Artefact scatter	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-IF1	55-1-0082	Isolated find	Valid	Moderate	Direct	Western portion of development footprint	Whole	Complete loss of value	
DEHS-2023-IF2	55-1-0080	Isolated find	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-IF3	55-1-0074	Isolated find	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-IF4	55-1-0075	Isolated find	Valid	Moderate	Direct	Western portion of development footprint	Whole	Complete loss of value	

Table 9.1 Summary of potential impacts to Aboriginal objects and/or sites

Site	AHIMS #	Site type	Status	Significance	Type of harm	Location and/or activity causing harm	Degree of harm	Consequence of harm	Notes
DEHS-2023-IF5	55-1-0073	Isolated find	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-IF6	55-1-0072	Isolated find	Valid	Moderate	Direct	Western portion of development footprint	Whole	Complete loss of value	
DEHS-2023-H1	55-1-0093	Hearth	Tentative	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-H2	55-1-0092	Hearth	Tentative	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-H3	55-1-0091	Hearth	Tentative	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-H4	55-1-0090	Hearth	Tentative	Moderate	Direct	Western portion of development footprint	Whole	Complete loss of value	
DEHS-2023-H5	55-1-0089	Hearth	Partially destroyed	High	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-H6	55-1-0088	Hearth	Tentative	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-H7	55-1-0087	Hearth	Tentative	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-HIF1	55-1-0102	Isolated find	Valid	Low	-	-	-	-	The isolated stone artefact could not be relocated during the test excavations. The associated hearth was excavated and considered to be nonanthropogenic (natural) and this component of the site has been removed from the registration.

Table 9.1 Summary of potential impacts to Aboriginal objects and/or sites

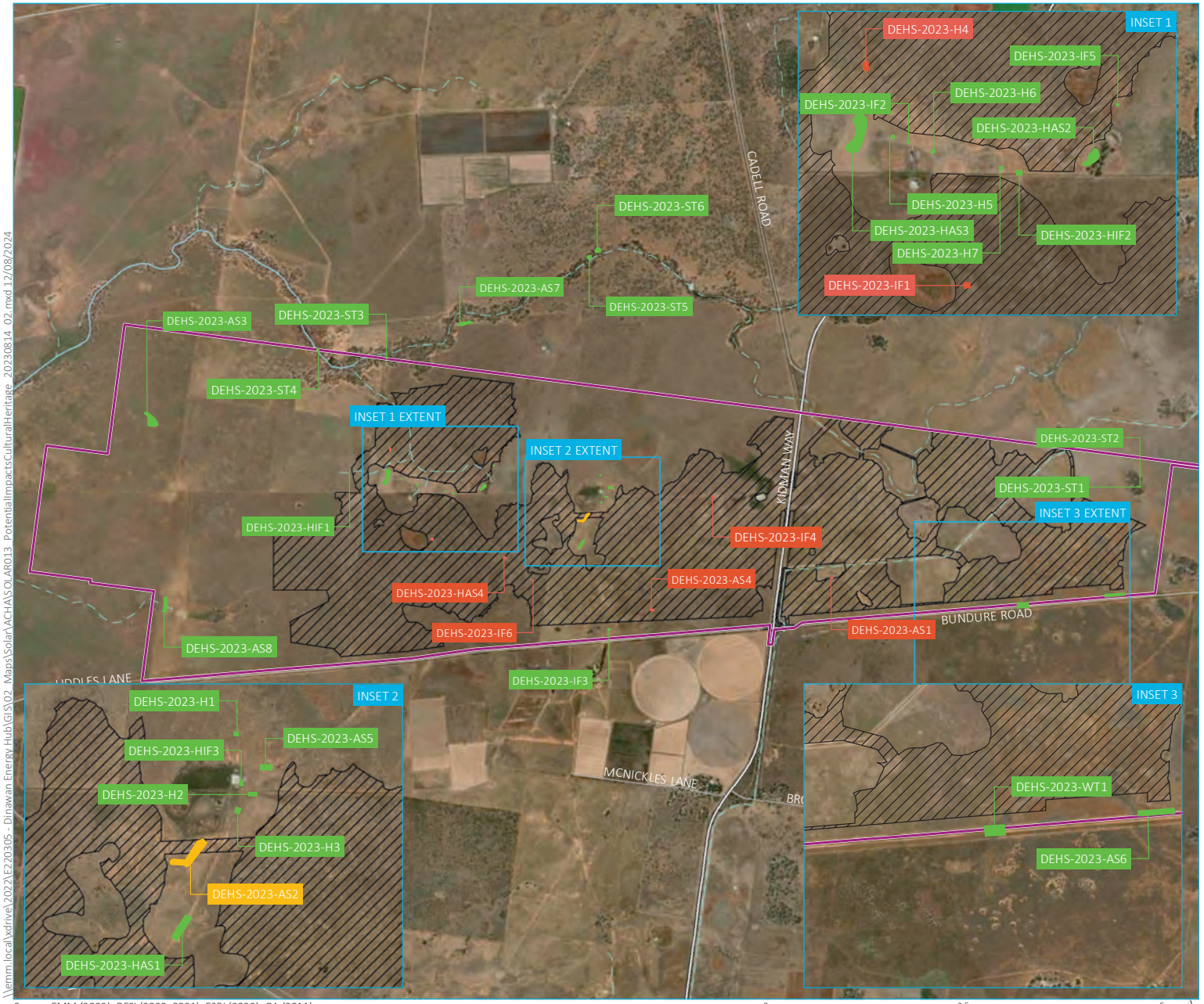
Site	AHIMS #	Site type	Status	Significance	Type of harm	Location and/or activity causing harm	Degree of harm	Consequence of harm	Notes
DEHS-2023-HIF2	55-1-0103	Hearth, isolated find	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-HIF3	55-1-0081	Hearth, isolated find	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-HAS1	55-1-0076	Hearth, artefact scatter	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-HAS2	55-1-0077	Hearth, artefact scatter	Tentative	High	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-HAS3	55-1-0078	Hearth, artefact scatter	Valid	Moderate	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-HAS4	55-1-0079	Hearth, artefact scatter	Valid	High	Direct	Western portion of development footprint	Whole	Complete loss of value	
DEHS-2023-WT1	55-1-0101	Women's tree, isolated find	Tentative	High	-	-	-	-	This site has been avoided and lies outside the development footprint.
DEHS-2023-ST1	55-1-0069	Culturally modified tree	Tentative	Moderate	-	-	-	-	This site is located outside of the development footprint.
DEHS-2023-ST2	55-1-0070	Culturally modified tree	Tentative	Moderate	-	-	-	-	This site is located outside of the development footprint.
DEHS-2023-ST3	55-1-0071	Culturally modified tree	Tentative	Moderate	-	-	-	-	This site is located outside of the project area and development footprint.
DEHS-2023-ST4	55-1-0068	Culturally modified tree	Tentative	Moderate	-	-	-	-	This site is located outside of the project area and development footprint.

Table 9.1 Summary of potential impacts to Aboriginal objects and/or sites

Site	AHIMS #	Site type	Status	Significance	Type of harm	Location and/or activity causing harm	Degree of harm	Consequence of harm	Notes
DEHS-2023-ST5	55-1-0097	Culturally modified tree	Tentative	Moderate	-	-	-	-	This site is located outside of the project area and development footprint.
DEHS-2023-ST6	55-1-0098	Culturally modified tree	Tentative	Moderate	-	-	-	-	This site is located outside of the project area and development footprint.

Notes:

1. The type, degree, and consequence of harm definitions are based on DECCW's (2010) *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW*.
2. Sites requiring further investigation and/or validation have their significance status ranked based on the assumption the site proves valid. However, their significance should be revisited when further analysis and classification occurs. These values are presented in red to demonstrate their tentative status.



KEY

- Study area
- Development footprint

Existing environment

- Watercourse (third order and higher)
- Major road
- Minor road

Strahler stream order

- 1
- 2

Potential impact

- Direct impact
- Direct impact (partial)
- No impact

Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

0 2.5 5 km

GDA2020 MGA Zone 55

N

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Potential impacts to identified cultural heritage

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure 9.1

EMM
creating opportunities

10 Management strategy and recommendations

10.1 Key findings

- The ACHA concludes that 35 Aboriginal objects and/or sites are within or in proximity to the study area. These included several low-density artefact scatters and isolated finds, hearth sites, hearth sites with artefacts, potential culturally modified trees and a potential women's tree. Test excavation of three sites comprising an artefact scatter (DEHS-2023-AS3), a potential hearth and artefact site (DEHS-2023-HIF1) and a hearth site (DEHS-2023-H5), confirmed that the development footprint is a highly eroded and disturbed landscape with shallow topsoils (<10 cm deep) and artefact sites are best characterised as surface scatters. The excavation of two hearths demonstrated that DEHS-2023-HIF1 was natural and a sample of DEHS-2023-H5 proved the site to be likely of anthropogenic origin.

- Following discovery of cultural materials, the project was subject to considerable redesign to avoid and/or minimise the impacts to cultural materials. Eight sites remain within the development footprint and will be directly affected by the project activities. The most significant sites and objects identified as part of this ACHA will be avoided by the project, including the potential women's tree, the paleochannel/aeolian sand sheet and the majority of the hearths and artefact scatters.

- Where avoidance of the potential hearth site DEHS-2023-H4 is not possible, a series of investigative actions are proposed to validate the identification of the site which cannot be robustly identified without further archaeological research (Section 10.2.1). General discussion on the methods and approaches to some of the mitigation measures is also undertaken (e.g. scale and scope of future archaeological salvage collections).

- Recommendations are proposed for inclusion in the project approval to mitigate residual impacts to cultural materials and to guide post-approval requirements for Aboriginal heritage (Section 10.3). These include the development of an Aboriginal Cultural Heritage Management Plan (ACHMP) to provide the framework for Aboriginal heritage management during the construction and operation of the project, including guidance around additional archaeological investigations and a procedure for the recovery of cultural materials where further avoidance of identified sites is not possible, as well as the development of an Interpretation Strategy and Plan to provide acknowledgement and other visual/educational opportunities for the Aboriginal and broader local community.

10.2 Management strategy

The assessment outlined in the preceding sections, and including Aboriginal consultation with six organisations, identified 35 Aboriginal objects and/or sites within or near the study area. These comprised generally low-density stone artefact sites and hearth sites found primarily within a disturbed landscape. A potential women's tree was identified in association with a paleochannel and aeolian sand sheet. Six potential culturally modified trees and an artefact site were opportunistically identified outside of the development footprint.

Of the identified Aboriginal sites, 19 sites were avoided by project redesign including nearly all hearth and artefact sites, and several sites of high significance, including the potential women's tree (DEHS-2023-WT1) and a potential oven mound with a sandstone grinding plate fragment and potential glass artefact (DEHS-2023-HAS2). A total of 27 Aboriginal sites identified as part of this assessment will be avoided.

As the final project layout within the development footprint is still being refined, it is recommended that the eight sites within the development footprint are avoided where feasible (see Section 10.3). If avoidance of some or all these sites is not feasible, then the mitigation measures discussed in Section 10.2.1 and Section 10.2.2 are recommended. One of these sites, DEHS-2023-H4, a potential hearth site, has tentative status requiring further investigation to confirm the site's validity in the event it cannot be avoided (see Section 10.2.1). The remaining sites are low-density artefact sites and an eroded hearth base with artefacts all within disturbed contexts, that are considered of low scientific significance but moderate to high cultural significance. Given the low scientific significance and secondary contexts of these sites, it is considered that the mitigation measures discussed in Section 10.2.2 would allow suitable management of the cultural materials.

10.2.1 Further investigations to be undertaken

One site, DEHS-2023-H4, has been identified only tentatively, lacking archaeological information that would allow its classification as an Aboriginal object or site. This is primarily the result of the test excavations conducted on-site, that have demonstrated that hearth-like features in the earth can be formed by natural processes, such as the burning of a tree limb or root system. Given the uncertainty of this site, it is recommended that if the site cannot be avoided, the site should be subjected to further interrogation through excavation of the hearth features, where a half section would be first excavated, sampled, and recorded in detail, before subsequent excavation of the whole feature where further salvage is required. During the excavation, there would be a focus on collecting samples for laboratory analysis to determine anthropogenic or natural origin (e.g. the presence of animal lipids and/or stone artefactual material). Where a natural explanation can be identified, the site could be discontinued as an Aboriginal site and would no longer form a potential constraint to the project. If impacts to DEHS-2023-H4 cannot be avoided, the additional investigations will be undertaken prior to construction.

10.2.2 Post-approval requirements

In NSW, Aboriginal objects are provided statutory protection by the NSW *National Parks and Wildlife Act 1974*. In general, where a proposed activity will result in harm to an Aboriginal object, an application must be made, and an Aboriginal Heritage Impact Permit (AHIP) must be granted before any harm can occur. If granted, the AHIP will contain conditions intended to manage and mitigate the identified impact and allow harm to proceed. As the project is SSD, an AHIP is not required. The identification of harm and any mitigation measures will instead be assessed through the EIS and, if consent to harm is granted, included within the project's conditions of approval. The conditions of approval of an SSD project generally incorporate Aboriginal heritage management requirements based on advice from Heritage NSW, and the recommendations of this assessment (Section 10.3).

For the purposes of this project, recommendations below include avoidance of the Aboriginal sites within the development footprint where feasible. However, where avoidance is not feasible, the recommendations include further validation of the tentative site DEHS-2023-H4 and the development of an ACHMP to provide the post-approval framework for all future Aboriginal heritage requirements for the project. The recommendations also outline the mitigation measures to be included in the ACHMP that should be implemented prior to and through the project life. These include surface collection of the remaining artefact sites (DEHS-2023-AS1, DEHS-2023-AS2, DEHS-2023-AS4, DEHS-2023-IF1, DEHS-2023-IF4, DEHS-2023-IF6) and salvage excavation of the hearth and artefact site (DEHS-2023-HAS4), including a sample of the remaining heat retainers, completion of any post-excavation analyses and reporting, and lodging the various documentation with appropriate public repositories.

10.3 Recommendations

Where feasible, Spark Renewables will consider modifying the project design and development footprint to avoid identified Aboriginal objects and/or sites. Where altering the design is not feasible, the following recommendations should be integrated into the management for the project.

Prior to ground disturbing construction works, an ACHMP must be developed by a heritage specialist in consultation with the RAPs to provide the post-approval framework for managing archaeological mitigation and Aboriginal heritage within the amended project area.

- The ACHMP will:
  - Be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary.
  - Be prepared in consultation with Aboriginal stakeholders and reviewed by Heritage NSW.
  - Include processes, timing, communication methods and project involvement (e.g. on-site activities, cultural material for site induction, minimum number of RAPs for monitoring/salvage works) for maintaining Aboriginal community consultation and participation through the remainder of the project. This should include a grievance mechanism that is readily available and designed for use by the local Aboriginal community.
  - If not previously completed, discuss and identify any areas of design optimisation with the RAPs to avoid or further minimise harm to identified Aboriginal sites, objects and places.
  - If not previously completed and where necessary, provide descriptions and methods for undertaking further investigation and assessment of potential hearth site DEHS-2023-H4, currently assigned a tentative classification, to gain a comprehensive understanding of this site for subsequent management through construction of the project.
  - Detail descriptions and methods of any additional investigative and/or mitigative archaeological actions that may be required prior to construction works commencing or during the project. These should include, but not limited to, cultural monitoring of select construction works (including monitoring of ground disturbance in areas of high cultural sensitivity), archival recording of all identified Aboriginal objects, sites and places; suitable recovery or relocation, documentation and analysis of any archaeological sites proposed for direct impacts (Table 9.1).
  - Description and methods of actions to minimise any inadvertent impacts to identified Aboriginal objects and/or sites and areas of archaeological sensitivity outside of the development footprint. This should include, but not be limited to, cultural inductions for all personnel and subcontractors outlining their location and significance, fencing and clear marking of heritage sites and zones of interest in proximity to proposed works, and any additional requirements identified by the Aboriginal community. A suitable regime of monitoring these activities should also be outlined, including locations, methods, personnel and timing.
  - Description and methods for undertaking further Aboriginal cultural heritage assessment, investigation and mitigation of any areas of the development footprint that have changed following completion of the ACHA and/or during the final design and construction phases of the project.

- Description and methods of post-excavation analysis and reporting of the archaeological investigations and activities implemented as part of the ACHMP. For excavations, these should include suitable collection and processing of stone artefacts, and chronological, soil, and environmental samples.
- Procedures for managing the unexpected discovery of Aboriginal objects, sites and/or human remains during the project.
- Procedures for the curation and long-term management of cultural materials recovered or relocated as part of the works outlined in the ACHMP and any preceding stages associated with the project.
- Processes for reviewing, monitoring and updating the ACHMP as the project progresses.

- Consultation will be maintained with the RAPs during the finalisation of the assessment process and throughout the project.
- A copy of the ACHA will be lodged with AHIMS and provided to each of the RAPs.
- AHIMS Site Recording Forms for the newly identified Aboriginal objects and/or sites within and in proximity to the study area, including areas of archaeological sensitivity, will be submitted to the AHIMS database.
- Where the heritage consultant changes through the project, suitable hand over will be undertaken to minimise loss or mistranslation of the intent of the information, findings and future steps in heritage management occur.

The key recommendation of this ACHA is the development of an ACHMP to guide the management and mitigation of cultural materials within the development footprint. While specific approaches and methodology would be developed as part of the ACHMP, Table 10.1 provides over-arching guiding principles for the management of sites that may be adversely affected by the project. If Aboriginal sites within the development footprint can be avoided during detailed design, the suggested measures will be updated as part of the ACHMP.

Table 10.1 Guiding principles for management of identified Aboriginal sites

Aboriginal sites	Impact/risk	Mitigation measure	To be completed
DEHS-2023-AS3; DEHS-2023-AS5; DEHS-2023-AS6; DEHS-2023-AS7; DEHS-2023-AS8; DEHS-2023-IF2; DEHS-2023-IF3; DEHS-2023-IF5; DEHS-2023-H1; DEHS-2023-H2; DEHS-2023-H3; DEHS-2023-H5; DEHS-2023-H6; DEHS-2023-H7; DEHS-2023-HIF2; DEHS-2023-HIF3; DEHS-2023-HAS1; DEHS-2023-HAS2; DEHS-2023-HAS3; DEHS-2023-WT1; DEHS-2023-ST1; DEHS-2023-ST2; DEHS-2023-ST3; DEHS-2023-ST4; DEHS-2023-ST5; DEHS-2023-HIF1 and DEHS-2023-ST6	Impact avoidance and minimisation	The ACHMP will include a description of actions to minimise any inadvertent impacts to identified Aboriginal sites outside, but in proximity, of the development footprint. This should include, but not be limited to, cultural inductions for all personnel and subcontractors outlining their location and significance, fencing and clear marking of heritage sites and zones of interest in proximity to proposed works and any additional requirements identified by the Aboriginal community.	Pre-construction During construction

Table 10.1 Guiding principles for management of identified Aboriginal sites

Aboriginal sites	Impact/risk	Mitigation measure	To be completed
DEHS-2023-AS2	Partial impact – partial loss	**Surface collection** Detailed field survey will be undertaken to identify the curtilage of the site and all observable surface cultural materials. Once identified, cultural materials will be spatially documented, photographed, collected and subject to detailed lithic analysis.	Pre-construction
DEHS-2023-AS1; DEHS-2023-AS4; DEHS-2023-IF1; DEHS-2023-IF4; DEHS-2023-IF6	Impact – complete loss	**Surface collection** Detailed field survey at the Aboriginal site location should be undertaken to identify the curtilage of the site and all observable surface cultural materials. Once identified, cultural materials should be spatially documented, photographed, collected and subject to detailed lithic analysis.	Pre-construction
DEHS-2023-HAS4 DEHS-2023-H4 (to be confirmed)	Impact - complete loss	**Salvage excavations** These hearth features will be subject to archaeological excavations if impacts cannot be avoided.	Pre-construction

10.4 Heritage interpretation strategy

A heritage interpretation strategy will be developed through an ongoing consultation process between Spark Renewables and the RAPs. The strategy will encompass findings from both this ACHA and the ACHA for Dinawan Wind Farm and will identify the interpretive values of the project areas, and specifically Aboriginal heritage values across the impact areas, to provide direction for potential interpretive opportunities for the Dinawan Energy Hub on and/or off-site (e.g. at Griffith and/or Narrandera). Following consultation and feedback on the strategy, a heritage interpretation plan could be used to refine the strategy with content (visual and textual) and design details in order to facilitate the implementation stage. The interpretation strategy and interpretation plan will include consideration of three main components identified through the ACHA process:

- Input and feedback from the RAPs, which to date include a number of cultural, historical and social history places from both traditional and contemporary connection to the Coleambally area with the Aboriginal community; and a range of flora and fauna that have totemic, medicinal and/or economic association with the Aboriginal community.
- The historical record of the study areas and their immediate environs, which have documented associations with Aboriginal people.
- The past cultural and environmental landscape informed by current archaeological investigations and analysis of the ACHAs, and any future activities that may result from the two projects (e.g. archaeological salvage of key locales).

11 Conclusion

This ACHA presents the findings of the Aboriginal community consultation, previous investigations regarding Aboriginal cultural and archaeological heritage values within the region and outcomes of physical investigations and ground-truthing within the study area. It provides information on the location, distribution and significance of Aboriginal objects identified within the study area and environs, the potential impacts to objects by the project and recommendations for the management of such impacts.

The assessment included archaeological field survey and test excavations with support from RAPs to explore and document the Aboriginal objects and sites within the development footprint, and to align them within the regional context. Overall, the findings of this ACHA largely conformed with the regional archaeological predictive model, with the exception of burial sites. While burial sites are known to occur in association with particular landforms and landscape features in the broader region, the study area does not exhibit the features in which this site type has been previously identified.

The field investigations resulted in the identification of 35 previously undocumented Aboriginal sites/objects within or in proximity to the development footprint, including:

- eight artefact scatters
- seven hearths
- six isolated stone artefacts
- six culturally modified trees
- four hearths with artefact scatters
- three hearths with isolated artefacts
- one potential women's tree with an isolated artefact.

The refinement of the project's development footprint (i.e. the area within which direct surface disturbance will occur) has been iterative throughout the assessment process and has been informed by the findings of the ACHA as they have become available. Of the 35 identified Aboriginal objects/sites, project redesign has resulted in the avoidance of most (n=27) of these sites. Eight sites remain within the development footprint, including:

- three artefact scatters of moderate significance (DEHS-2023-AS1, DEHS-2023-AS4, and DEHS-2023-AS2)
- three isolated stone artefacts of moderate significance (DEHS-2023-IF1, DEHS-2023-IF4 and DEHS-2023-IF6)
- one hearth of moderate significance (DEHS-2023-H4) - further investigation is required to validate this site
- one hearth and artefact scatter of high significance (DEHS-2023-HAS4).

These sites will be subject to direct impacts including:

- the complete loss of value of seven Aboriginal sites (DEHS-2023-AS1, DEHS-2023-AS4, DEHS-2023-IF1, DEHS-2023-IF4, DEHS-2023-IF6, DEHS-2023-H4, and DEHS-2023-HAS4)
- the partial loss of value of one Aboriginal site (DEHS-2023-AS2).

Recommendations are proposed for inclusion in the project approval to minimise and mitigate impacts to cultural materials and to guide post-approval requirements for Aboriginal heritage. These include the development of an ACHMP to provide the framework for Aboriginal heritage management during the construction and operation of the project, including guidance around additional archaeological investigations and a procedure for the recovery of cultural materials where further avoidance of identified sites is not possible.

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Abbreviations

Abbreviation	Definition
AC	alternating current
AHD	Australian Height Datum
ACHA/ACHAR	Aboriginal cultural heritage assessment report
AHIMS	Aboriginal Heritage Information Management System
ACHMP	Aboriginal Cultural Heritage Management Plan
BESS	battery energy storage system
BP	years before present
c.	circa
cm	centimetres
DC	direct current
DEC	Department of Environment and Conservation, now Heritage NSW
DECCW	Department of Environment Climate Change and Water, now Heritage NSW
DP	deposited plan
DPC	Department of Premier and Cabinet
DPE	Department of Planning and Environment
DPIE	Department of Planning, Industry and Environment (now DPE)
EIS	Environmental Impact Statement
EMM	EMM Consulting Pty Ltd
EP&A Act	*Environmental Planning and Assessment Act 1979*
EPBC Act	Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*
FGS	fine grained siliceous
g	grams
GHG	greenhouse gas
GIS	geographical information system
GPS	global positioning system
GW	gigawatts
ha	hectare
ICOMOS	International Council on Monuments and Sites
IMTC	indurated mudstone/tuff/chert
km	kilometres
kv	kilovolts

Abbreviation	Definition
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
m	metres
m^2	square metres
mm	millimetres
MW	megawatts
MYA	million years ago
n	number
NSW	New South Wales
OEH	Office of Environment and Heritage, now Heritage NSW
PAD	potential archaeological deposit
Planning Systems SEPP	State Environmental Planning Policy (Planning Systems) 2021
PV	photovoltaic
RAP	registered Aboriginal party
REZ	renewable energy zone
SEARs	Secretary's Environmental Assessment Requirements
SSD	State significant development
SSI	State significant infrastructure
t	tonne
TP	test pit

Glossary

Many of these definitions have been taken from the *Code of Practice for archaeological investigation of Aboriginal objects in NSW* (DECCW 2010).

Aboriginal object: A physical manifestation of past Aboriginal activity. The legal term is defined in the *National Parks and Wildlife Act 1974* Section 5 as: any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains.

Typical examples include stone artefacts, grinding grooves, Aboriginal rock shelters which by definition include physical evidence of occupation, midden shell, hearths, stone arrangements and other landscape features which derive from past Aboriginal activity.

Archaeological survey: A method of data collection for Aboriginal heritage assessment. It involved a survey team walking over the land in a systematic way, recording information. Activities are not invasive or destructive.

Aboriginal culturally modified tree: A tree of sufficient age to have been mature at the time of traditional Aboriginal hunter-gatherer life and therefore generally of more than 220 years ago with evidence of bark or cambium wood removal for the purpose of implement manufacture, footholds, bark sheet removal for shelter, or extraction of animals or other food. Care must be taken to distinguish Aboriginal scars from the much more common natural causes of branch tear, insect attack, animal impact, lightning strike and dieback. Culturally modified tree recognition guidelines exist to distinguish these features. Naturally scarred trees are often misidentified as Aboriginal culturally modified trees.

Aboriginal site: The location where a person in the present day can observe one or more Aboriginal objects. The boundaries of a site are limited to the extent of the observed evidence. In the context of this report a 'site' does not include the assumed extent of unobserved Aboriginal objects (such as archaeological deposit). Different archaeologists can have varying definitions of a 'site' and may use the term to reflect the assumed extent of past Aboriginal activity beyond visible Aboriginal objects. Such use of the term risks defining all of Australia as a single 'site'.

Aboriginal stone artefact: A stone object with morphological features derived from past Aboriginal activity such as intentional fracture, abrasion or impact. Artefacts are distinguished by morphology and context. Typically flaked stone artefacts are distinguished from naturally broken stone by recognition of clear marginal fracture initiation (typically herzian/conchoidal or wedging initiation) on highly siliceous stone types which can often be exotic to the area. Care must be taken to distinguish modern broken stone in machine impacted contexts and therefore context must be carefully considered as well as morphology.

Aggradation: a term used in geology for the increase in land elevation, typically in a river system, due to the deposition of sediment.

AHIMS: Aboriginal Heritage Information Management System — a computer software system employed by the Office of Environment and Heritage to manage many aspects of Aboriginal site recording and permitting. AHIMS includes an Aboriginal sites database which can be accessed via an internet portal.

Amended project area: The land required for the project. The amended project area contains the entirety of all 48 landholdings that overlap with the development footprint and is approximately 3,257 ha. The amended project area is the maximum area considered for the project based on the extent of land where Spark Renewables is proposing infrastructure. The amended project area also includes parts of Kidman Way and Bundure Road (including the road easement) and Coleambally Irrigation Channel where site access and/or electrical cabling may be required.

Archaeological deposit: Aboriginal objects occurring in one or more soil strata. The most common form of archaeological deposit relates to the presence of a single conflated layer of Aboriginal stone artefacts worked into the topsoil through **bioturbation**.

Backed artefact: A thin flake or blade-flake that has been shaped by secondary flaking (**retouch**) along one lateral margin. The retouched margin is typically steep and bipolar to form a blunt 'back' in the manner of a modern scalpel blade. Distinctive symmetrical and asymmetrical forms are typically found called geometric **microliths** and Bondi points respectively. A thick symmetrical form, called an Elouera, is typically the size of a mandarin segment.

Bioturbation: Is the reworking of soils and sediments by animals or plants. Its effects include changing texture of sediments (diagenetic), bioirrigation and displacement of microorganisms and non-living particles.

Bipolar flaking: Where the stone to be worked is rested on an anvil or other stone before being hit by the hammerstone. This results in the presence of negative flake scars on both ends of the core.

Bondi point: See backed artefact definition.

Brown podosols: Topsoils have loamy textures. A2 horizons are common, there is a clear boundary onto the B horizon. They have a sandy clay to heavy clay texture (typically occur on upper and mid-slopes).

Chocolate Soils: Soils that are typically formed in a basaltic parent material where slope or bedrock strata influence drainage. Surface horizons comprise loam, clay loam or silty clay loam. There is a gradual boundary to a brown or brownish black B horizon. There is no A2 horizons.

Conchoidal: A term used in relation to fracture surfaces on Aboriginal stone artefacts - bulb-like in the manner of a bulbous protrusion on a bivalve shell.

Development footprint: The development footprint is wholly within the amended project area and is the maximum extent of ground disturbing works associated with the construction and operation of the project and is approximately 1,792 ha. The development footprint has been refined to avoid and minimise impacts where possible based on the outcomes of the technical assessments and stakeholder engagement**.** Approval is sought to disturb anywhere within the development footprint.

Elouera: See backed artefact definition.

Eraillure scar: The small flake scar on the dorsal side of a flake next to the platform. It is the result of rebounding force during percussion flaking.

Exposure: estimates the area with a likelihood of revealing buried artefacts or deposits, not just an observation of the amount of bare ground.

Geometric microlith: See backed artefact definition.

Grinding grooves: Grinding grooves typically derive from the sharpening of stone hatchet heads on sandstone rock. Grooves appear as elliptical depressions of around 25 cm length with smooth bases. Although mostly occurring in association with water to wash the abraded stone dust away from the groove, such sites have been recorded away from water. Narrow grooves or broad abraded areas may occur less commonly and may be derived from spear sharpening or other grinding activities.

Haematite: a pigment featured in ochre used for tinting with a permanent colour.

Holocene: A period of time generally 10,000 years, which marks the end of the last ice age, to the present.

Igneous: relating to or involving volcanic or plutonic processes.

Indurated mudstone/tuff (IMT): the fine textured, very hard, yellowish, orange, reddish-brown or grey rocks from which stone artefacts are made.

Isotropic: Having a physical property that has the same value when measured in different directions. In relation to stone used for stone tools a fracture path is not hindered by layer boundaries or other favoured plane of cleavage.

Keeping place: A room or facility with the express and exclusive purpose of storing Aboriginal cultural heritage materials with accompanying documentation in a secure and accessible manner which protects their cultural heritage values.

Knapping: This term is used in reference to stone tool production. Specifically, it relates to the production and shaping of a block of stone (e.g. a cobble) into a stone tool. The process is called knapping, while the individual undertaking the task is often called a knapper. A knapping floor or event often referenced in the literature relates to an archaeological deposit, usually of high densities of stone artefacts, where researchers believe this process has occurred in a given locale.

Krasnozems: Mainly loams, clay loams and silty clay loams with a clear or gradual boundary to a dark reddish brown B horizon. Clays are typically light to medium and occasionally heavy.

Lithosols: Soils that have little or no profile development. They occur on steep slopes and are usually shallow and are left mainly as uncleared native bushland.

Microlith: Very small fragments of flakes retouched into geometric shapes and usually present on tools like barbed spears, arrows and sickles.

Midden: A collection of shells and associated economic remains resulting from Aboriginal food gathering and processing activity. Middens comprise shellfish remains of consistent size in a rich dark earth matrix commonly associated with stone artefacts, fish bone and animal bone although shells are commonly the most obtrusive element.

Open stone artefact site/stone artefact site: An unenclosed area where Aboriginal stone artefacts occur – typically exposed from a topsoil archaeological deposit by erosion. Typically the term is used to refer to two or more artefacts although this is an arbitrary distinction. A general 'rule of thumb' boundary definition employed by archaeologists is that artefacts or features more than 50 m apart are regarded as separate sites, however there is no theoretical imperative dictating such as rule. (The 50 m separation rule is used for the most part in EMM's work).

Pirri point: A leaf-shaped stone implement with unifacial retouch extending from the lateral margins to a central keel running the length of the dorsal surface.

Pleistocene: A period of time 2.6 million years ago to 10,000 years ago. Reference to 'Pleistocene sites' generally means reference to sites older than 10,000 years.

Podosols: Soils with accumulations of organic matter, iron and aluminium. They are usually sand textured to depth. Yellow and red podosols are generally acid neutral. Yellow podosols have coarse to medium textured A horizons.

Point cluster: A group of GPS points used to identify the locations of individual artefacts in the field.

Potential Archaeological Deposit (PAD): An area where there is an inferred presence of Aboriginal objects in the soil based on the environmental context which is typically associated with discovery of Aboriginal objects in analogous areas. This is not strictly a 'site' type, although AHIMS records it as such for the purpose of associating Aboriginal heritage Impact Permits with geographical areas.

Red podosols: Podosols with a pronounced texture contrast and clear to abrupt boundaries between A and B horizons. A2 is often massive and gravelly.

Retouch: The modification of the edges of a flake or tool by the removal of a series of small flakes.

Siliceous Sands: Sands that are usually found on coarse-grained sandstones and in sandstone colluvium. They are often sandstone outcrops present in the landscape. The topsoil has a loamy sand to light sandy clay.

Scarp: a steep slope characterised by outcropping bedrock. In this report, scarp refers to a combination of landform elements including scarp foot slopes, scarps, and cliff lines where outcropping sandstone is present in the landscape 10% and above.

Spit/s: This term reflects an arbitrary unit of depth that archaeologists excavate when lacking evidence of a stratigraphy within the soil profile. Commonly, archaeologists remove vertical intervals of 5, 10 or 20 cm, each representing a spit, down the soil profile. Through this process, archaeologists can determine the depth at which archaeological materials are found, even in soil profiles with no clear divisions or boundaries.

Spur: The lateral crests of land that descend from the summit of hills or ridges. Spurs typically extend, with decreasing elevation, closer to streams and valley floors than the main crest of a hill.

Taphonomic: The events and processes, such as burial in sediment, leading to the degradation, decomposition or preservation of objects.

Thumbnail scraper: A thumbnail sized thin flake with steep unidirectional retouch or use-wear around a convex working edge.

Transect: A sample unit which is a walking line or corridor across the study area.

Upsidence: phenomena of uplift in the ground surface that can occur when underground mining approaches and undermines river valleys. It can result in cracking and buckling of river beds and rock bars and localised loss of water flow.

Visibility: The amount of bare ground on exposures which might reveal artefacts or other archaeological materials.

Yellow earths: predominantly sandy-textured soils with earthy porous fabric, weak profile differentiation and gradual or diffuse boundaries except for the darker A1 horizon.

Yellow podosols: Podosols which typically occur on the upper slopes of steep landscapes and on the mid to lower slopes of others. The A2 soil horizon is present in most profiles and the boundary change to the B horizon is generally clear. The B horizon is typically sandy clay to heavy clay.

Annexure A
Legislative context

EMM
creating opportunities

A.1 Commonwealth

A.1.1 *Aboriginal and Torres Strait Islander Heritage Protection Act 1984*

The *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* preserves and protect areas (especially sacred or intangible sites) and places of particular significance to Aboriginal people from damage or destruction. Steps necessary for the protection of a threatened place are outlined in a gazetted Ministerial Declaration (Sections 9 and 10); and which can result in a cessation of any development activity.

In addition, the Act also protects objects by Declaration, notably Aboriginal skeletal remains (Section 12). This can be applied at a State level where a State is unwilling or unable to provide such protection.

A.1.2 *Environment Protection and Biodiversity Conservation Act 1999*

The *Environment Protection and Biodiversity Conservation Act 1999* provides for protection of natural and cultural heritage places. The Act establishes a National Heritage List (NHL) and a Commonwealth Heritage List (CHL) upon which places of natural or cultural significance can be listed. Sites at a national level and can be in public or private ownership. The CHL is limited to places owned by the Commonwealth, and most frequently encompass Department of Defence sites. Sites and places listed on the NHL are considered to be of State and local heritage value, even if they are not listed or documented as such at a State level.

The values of sites and places on the NHL/CHL are protected under the EPBC Act. The Act requires that the Minister administering the Act assess any action which has, will have, or is likely to have, a significant impact on the heritage values. Where relevant, a referral is made to the relevant Commonwealth Department, and either approval, approval with controls, or rejection of the proposed action is determined.

A.1.3 *Native Title Act 1993*

The *Native Title Act 1993* provides recognition and protection for native title. The Act establishes the managing body, National Native Title Tribunal, who administers native title claims to rights and interests over lands and waters by Aboriginal people. It also administers the future act processes that allow proponents to identify and manage potential native title issues for a given activity on a site where a claim has yet to be made or finalised.

In addition, the Act provides for Indigenous Land Use Agreements (ILUA), which is an agreement between a native title group and others about the use and management of land and waters. ILUAs were introduced as a result of amendments to the Act in 1998. They allow people to negotiate flexible and bipartisan agreements to suit their particular circumstances often circumventing lengthy timeframes associated with the native title process. An ILUA can be negotiated over areas where native title has, or has not yet, been determined. They can be part of a broader determination or settled separately.

A.2 State

A.2.1 *Environmental Planning and Assessment Act 1979*

The NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) is the overarching Act that dictates the nature of assessment and management of the environment during a development project, and within which heritage forms a component. It requires that environmental and heritage impacts are considered by consent authorities prior to granting development approvals.

The EP&A Act has two main approval pathways within which heritage needs to be considered. Generally, for smaller scale (either financially or spatially), Parts 4 (Division 4.1) and 5 (Division 5.1) of the Act are implemented. Part 4 requires that a proponent submits a Development Application (DA) to local council for a given development, and within this document a consideration of Aboriginal and historical heritage is required. The specific nature of the assessment is usually determined at a pre-DA meeting with the council, and in relation to the relevant heritage Acts. Where Aboriginal heritage is identified as an issue, the DA may become Integrated Development, whereby the State government is also required to review and provide comments on the DA prior to its issue. Part 5 of the Act is a similar process, but only relates to approvals developed and issued by State government departments. Each State government department has their own internal approach to considering environmental issues, but ultimately must develop a Review of Environmental Factors (REF), which is comparable to a DA, and which requires consideration and management of heritage. Similarly, where heritage is identified as an issue, liaison with relevant State consent authorities and approvals under other Acts may still be required.

The other approval pathway relates to State Significant Development and/or Infrastructure (Parts 4.7 and 5.2, respectively). These processes require an Environmental Impact Statement (EIS) to be developed for a project and are assessed by the NSW Department of Planning and Environment. Importantly, the SSD and SSI processes turn off a number of pieces of other legislation, including parts of the NSW *National Parks and Wildlife Act 1974*. In the case of Aboriginal heritage, both the assessment and approval for harm are dictated by the Secretary's Environmental Assessment Requirements (SEARs) outlining the contents and scope of the EIS, and the Project Approval that dictates controls on how a development should proceed.

A.2.2 *National Parks and Wildlife Act 1974*

The NSW *National Parks and Wildlife Act 1974* provides protection for Aboriginal objects and places across NSW:

- An Aboriginal object is defined as: "Any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction and includes Aboriginal remains."

- An Aboriginal place is defined as: "Any place declared to be an Aboriginal place under Section 84". This is a very specific piece of legislation that provides process and management of Aboriginal sites of cultural, but not necessarily scientific, values. They are commonly, but not always associated with intangible values.

- Any place declared to be an Aboriginal place by the Minister for the Environment, under Section 84 of the Act is also protected.

It is an offence to disturb Aboriginal objects or places without an Aboriginal Heritage Impact Permit (AHIP), which is outlined in Section 90 of the Act. Currently, such permits can be sought from the Chief Executive of the NSW Department of Premier and Cabinet (DPC), with the recent relocation of the Office of Environment and Heritage.

To obtain an AHIP, certain assessment and documentation (outlined in this report) must be provided to DPC for their consideration. Once satisfied, they may endorse an AHIP to harm cultural heritage either conditionally or unconditionally. They can also refuse an application as outlined in Section 90C of the Act, and which can be appealed in accordance with Section 90L.

A.2.3 *Aboriginal Land Rights Act 1983*

The NSW *Aboriginal Land Rights Act 1983* provides process and protocols for the transfer of vacant Crown land ownership to a Local Aboriginal Land Council, where the land is not for an essential purpose or for residential land. These lands are then managed and maintained by the Local Aboriginal Land Council.

For the purposes of this report, the Act is primarily important to inform relevant Aboriginal communities for consultation; and where Crown land forms part of the development area may require additional liaison with the LALC as a potential, or existing, landowner.

Annexure B

Aboriginal community consultation

EMM
creating opportunities

B.1 Consultation log and communications record

DECCW 2010*	ORGANISATION	CONTACT TYPE	TRACKING # *(if applicable)*	SUBJECT	SENT DATE	RESPONSE DUE	RESPONSE DATE	COMMENT/S
4.1	**Stage 1: Notification of project proposal and registration of interest**							
4.1.2 (a)	Heritage NSW	Email	N/A	Identification of Aboriginal parties	23/Nov/22	7/Dec/22	29/Nov/22	Provided contact details for Aboriginal stakeholders in Murrumbidgee and Edward River LGAs.
4.1.2 (b)	Griffith Local Aboriginal Lands Council	Email	N/A	Identification of Aboriginal parties	23/Nov/22	7/Dec/22	25/Nov/22	Did not identify any additional parties. Noted Griffith LALC will provide ACH Officers to assist in undertaking the ACHA.
4.1.2 (b)	Cummergunja Local Aboriginal Lands Council	Email	N/A	Identification of Aboriginal parties	23/Nov/22	7/Dec/22	23/11/222	Advised that the project is outside of the Cummeragunja LALC area.
4.1.2 (c)	The Office of the Registrar, Aboriginal Land Rights Act 1983	Email	N/A	Identification of Aboriginal parties	23/Nov/22	7/Dec/22	2/Dec/22	Identified no current Registered Aboriginal Owners in the project area.
				Updated ORALRA search	3/Apr/24	17/Apr/24	8/Apr/24	Identified no current Registered Aboriginal Owners in the project area.
4.1.2 (d)	National Native Title Tribunal	Email	N/A	Identification of Aboriginal parties	23/Nov/22	7/Dec/22	24/Nov/22	No overlaps identified with existing applications, determinations or ILUAs.
				Updated NNTT search	3/Apr/24	17/Apr/24	4/Apr/24	No overlaps identified with existing applications, determinations or ILUAs.
4.1.2 (f)	Edward River Council	Email	N/A	Identification of Aboriginal parties	23/Nov/22	7/Dec/22	30/Nov/22	Provided contact details for Yarkuwa Indigenous Knowledge Centre and Deniliquin Aboriginal Land Council.
4.1.2 (g)	Murray Local Land Service (former CMA)	Email	N/A	Identification of Aboriginal parties	23/Nov/22	7/Dec/22	23/Nov/22	Declined to provide contact details for any individuals/organisations in the region due to privacy restrictions.
4.1.3	**Newspaper Notice - Request for registrations**							
4.1.3	Narrandera Argus	Advertisement	N/A	Identification of Aboriginal parties	15/Dec/22	29/Dec/22	N/A	Advertisement appeared on Thursday 15/Dec/22.
4.1.3	The Area News	Advertisement	N/A	Identification of Aboriginal parties	9/Dec/22	23/Dec/22	N/A	Advertisement appeared on Friday 9/Dec/22.
4.1.3	Weekend Advertiser	Advertisement	N/A	Identification of Aboriginal parties	10/Dec/22	24/Dec/22	N/A	Advertisement appeared on Saturday 10/Dec/22.
4.1.3/4.2	**Aboriginal Group Notifications**							
4.1.3	Bangerang Aboriginal Corporation	Email		Request for registrations	9/Dec/22	23/Dec/22	14/Jan/23	
4.1.3	Miyagan Culture & Heritage	Email		Request for registrations	9/Dec/22	23/Dec/22		
4.1.3	Patricia Winch	Email		Request for registrations	9/Dec/22	23/Dec/22		
4.1.3	Will Carter	Email		Request for registrations	9/Dec/22	23/Dec/22		
4.1.3	Yarkuwa Indigenous Knowledge Centre	Email		Request for registrations	9/Dec/22	23/Dec/22	14/Dec/22	
4.1.3	Griffith LALC	Email		Request for registrations	9/Dec/22	23/Dec/22	25/Nov/22	
4.1.3	Waddi Housing and Advancement Corporation	Email		Request for registrations	9/Dec/22	23/Dec/22		
4.1.3	John Jackson	Email		Request for registrations	9/Dec/22	23/Dec/22		
4.1.3	Roley Williams	Email		Request for registrations	9/Dec/22	23/Dec/22	4/Jan/23	
4.1.3	Cummeragunja LALC	Email		Request for registrations	9/Dec/22	23/Dec/22		
	Bidya Marra Consultancy	Email		Request for registrations	9/Dec/22	23/Dec/22	30/Dec/22	
4.1.3	Bundyi Aboriginal Cultural Knowledge	Email		Request for registrations	9/Dec/22	23/Dec/22	12/Dec/22	
4.1.6	**Notification of registered parties**							
4.1.6	Heritage NSW	Email	N/A	Submit record of registrations	24/Jan/23	N/A	N/A	
4.1.6	Griffith Local Aboriginal Lands Council	Email	N/A	Submit record of registrations	24/Jan/23	N/A	N/A	
4.1.6	Cummergunja Local Aboriginal Lands Council	Email	N/A	Submit record of registrations	24/Jan/23	N/A	N/A	
4.2 / 4.3	**Stage 2/3: Presentation of information about the proposed project and gathering information about cultural significance**							
4.2.1 / 4.3.1 / 4.3.3	Griffith LALC	Email	N/A	Project information and methodology	23/Jan/23	20/Feb/23		
4.2.1 / 4.3.1 / 4.3.3	Bidya Marra Consultancy	Email	N/A	Project information and methodology	23/Jan/23	20/Feb/23		
4.2.1 / 4.3.1 / 4.3.3	Yarkuwa Indigenous Knowledge Centre	Email	N/A	Project information and methodology	23/Jan/23	20/Feb/23		
4.2.1 / 4.3.1 / 4.3.3	Bundyi Aboriginal Cultural Knowledge	Email	N/A	Project information and methodology	23/Jan/23	20/Feb/23		
4.2.1 / 4.3.1 / 4.3.3	Roley Williams	Email	N/A	Project information and methodology	23/Jan/23	20/Feb/23		
4.2.1 / 4.3.1 / 4.3.3	Bangarang Aboriginal Corporation	Email	N/A	Project information and methodology	23/Jan/23	20/Feb/23		
15	**CoP Requirement 15: Pre-conditions to carrying out test excavation**							
Req 15c	Heritage NSW	Email		Notification of test excavation	4/May/23	N/A	N/A	14 days prior to undertaking test excavation
4.4	**Stage 4: Review of draft cultural heritage assessment report**							
4.4.2	Griffith LALC	Email		Cultural information and ACHA review	29/Aug/23	26/Sep/23	N/A	No response.
4.4.2	Bidya Marra Consultancy	Email		Cultural information and ACHA review	29/Aug/23	26/Sep/23	25/Sep/23	Support the draft Solar ACHA and mitigation methods.
4.4.2	Yarkuwa Indigenous Knowledge Centre	Email		Cultural information and ACHA review	29/Aug/23	26/Sep/23	N/A	No response.
4.4.2	Bundyi Aboriginal Cultural Knowledge	Email		Cultural information and ACHA review	29/Aug/23	26/Sep/23	25/Sep/23	Supports draft ACHA and provided comments.
4.4.2	Roley Williams	Email		Cultural information and ACHA review	29/Aug/23	26/Sep/23	25/Sep/23	Support the draft Solar ACHA and mitigation methods.
4.4.2	Bangarang Aboriginal Corporation	Email		Cultural information and ACHA review	29/Aug/23	26/Sep/23	25/Sep/23	Support the draft Solar ACHA and mitigation methods.
	Continued Consultation (Project Updates)							
	Griffith LALC	Email		Project status update - Solar RTS ACHA addendum	TBD	N/A	N/A	TBD
	Bidya Marra Consultancy	Email		Project status update - Solar RTS ACHA addendum	TBD	N/A	N/A	TBD
	Yarkuwa Indigenous Knowledge Centre	Email		Project status update - Solar RTS ACHA addendum	TBD	N/A	N/A	TBD
	Bundyi Aboriginal Cultural Knowledge	Email		Project status update - Solar RTS ACHA addendum	TBD	N/A	N/A	TBD
	Roley Williams	Email		Project status update - Solar RTS ACHA addendum	TBD	N/A	N/A	TBD
	Bangarang Aboriginal Corporation	Email		Project status update - Solar RTS ACHA addendum	TBD	N/A	N/A	TBD
4.4.5	**Distribution of final ACHA and AHIP application to RAPs**							
4.4.5	All Registered Aboriginal Parties	Email		Distribution of final ACHA addendum to RAPs	10/Sep/24	N/A	N/A	No response required

Aboriginal Consultation Requirements for Proponents* (DECCW 2010)

ABORIGINAL COMMUNICATIONS LOG

Project Name: Dinawan Energy Hub - Solar Farm | **Project #:** E220305

DATE	OUTGOING / INCOMING	ORGANISATION	CONTACT MADE BY	CONTACT TO	CONTACT TYPE	COMMENTS
17-Aug-22	Outgoing	All RAPs	Alan Williams		Email	Provided a brief project update introducing EMM to the project and outlining where the project was up to.
23/Nov/22	Outgoing	Heritage NSW	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23/Nov/22	Outgoing	Griffith Local Aboriginal Land Council (LALC)	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23/Nov/22	Outgoing	Murrumbidgee Council	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23/Nov/22	Outgoing	Murray Local Land Services	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23/Nov/22	Outgoing	NTSCorp	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23/Nov/22	Outgoing	Office of the Registrar, Aboriginal Land Right 1983	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23/Nov/22	Outgoing	Native Title Tribunal	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23-Nov-22	Outgoing	Cummergunja LALC	Alan Williams		Email	Provided request letter for information on Aboriginal parties
23-Nov-22	Incoming	Cummergunja LALC	Leon Atkinson	Alan Williams	Email	Advised the site was not in his area.
23/Nov/22	Incoming	Murray Local Land Services	Linda Stevens	Alan Williams	Email	Advised they couldn't release contact information, but had provided our data onto their list of First Nations people
24-Nov-22	Incoming	Native Title Tribunal		Alan Williams	Email	Advised all of the site was freehold and no native title applications or claims were relevant
2-Dec-22	Incoming	Office of the Registrar, Aboriginal Land Right 1983	Rachel Rewiri	Alan Williams	Email	Advised that the Griffith LALC should be contacted
9-Dec-22	Outgoing	All identified parties	Alan Williams		Email	Provided a notification letter and sought their interest in being consulted on the project
9-Dec-22	Outgoing	The Area News			Newspaper advert	Publication of the project seeking interest
10-Dec-22	Outgoing	Wagga Wagga Daily Adverister			Newspaper advert	Publication of the project seeking interest
10-Dec-22	Incoming	Bundyi Cultural Knowledge	Mark Saddler	Alan Williams	Email	Registered an interest in the project.
14-Dec-22	Incoming	Yarkuwa Indigenous Knowledge Centre	David Crew	Alan Williams	Email	Registered an interest in the project.
30-Dec-22	Incoming	Bidya Marra Consultancy	James Ingram	Alan Williams	Email	Registered an interest, and advised of a number of other representatives of the Crowe family were also key to this region and should be registered. AW confirmed all would be added for future correspondence and sought clarification on whether to liaise with them directly or via JI.
4-Jan-23	Incoming	Roley Williams	Roley Williams	Alan Williams	Email	Asked to be kept informed of the project as it progresses
23-Jan-23	Outgoing	Griffith LALC	Morgan Wilcox	Stephen Young	Email	Stage 2/3 Project Info and Methods letter. Comment period closes 20 February 2023.
23-Jan-23	Outgoing	Bidya Marra Consultancy	Morgan Wilcox	James Ingram	Email	Stage 2/3 Project Info and Methods letter. Comment period closes 20 February 2023. Request that as previously discussed with Alan, information provided be forwarded on to Bruce Crowe, Jason Crowe, Joel Crowe, Mitchell Crowe, Brandon Crowe, and Robert Penngelly.
23-Jan-23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Morgan Wilcox	David Crew	Email	Stage 2/3 Project Info and Methods letter. Comment period closes 20 February 2023.
23-Jan-23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Morgan Wilcox	Mark Saddler	Email	Stage 2/3 Project Info and Methods letter. Comment period closes 20 February 2023.
23-Jan-23	Outgoing	Roley Williams	Morgan Wilcox	Roley Williams	Email	Stage 2/3 Project Info and Methods letter. Comment period closes 20 February 2023.
23-Jan-23	Outgoing	Bangarang Aboriginal Corporation	Morgan Wilcox	Kim Atkinson	Email	Stage 2/3 Project Info and Methods letter. Comment period closes 20 February 2023.
23-Jan-23	Outgoing	Bangarang Aboriginal Corporation	Morgan Wilcox	Kevin Atkinson	Email	Stage 2/3 Project Info and Methods letter. Comment period closes 20 February 2023.
24-Jan-23	Outgoing	Heritage NSW	Morgan Wilcox		Email	Per item 4.1.6 of the consultation guidelines, provide list of RAPs as well as notification letter and advert tearsheets.
24-Jan-23	Outgoing	Griffith LALC	Morgan Wilcox	Stephen Young	Email	Per item 4.1.6 of the consultation guidelines, provide list of RAPs as well as notification letter and advert tearsheets.
24-Jan-23	Outgoing	Cummergunja LALC	Morgan Wilcox		Email	Per item 4.1.6 of the consultation guidelines, provide list of RAPs as well as notification letter and advert tearsheets.
22-Feb-23	Outgoing	All RAPs	Alan Williams	ALL 6 RAPs	Email	Sought availability of all organisations through March and April for fieldwork
28-Feb-23	Outgoing	Griffith LALC	Mel Thomson	Stephen Young	Email	Sought confirmation of field work dates for the AFG and Solar Farm survey
28-Feb-23	Outgoing	Bangarang Aboriginal Corporation	Mel Thomson	Kim Atkinson; Kevin Atkinson	Email	Sought confirmation of field work dates for the AFG and Solar Farm survey
28-Feb-23	Outgoing	Bidya Marra Consultancy	Mel Thomson	James Ingram	Email	Sought confirmation of field work dates for the AFG and Solar Farm survey
28-Feb-23	Outgoing	Roley Williams	Mel Thomson	Roley Williams	Email	Sought confirmation of field work dates for the AFG and Solar Farm survey
28-Feb-23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Mel Thomson	David Crew	Email	Sought confirmation of field work dates for the AFG and Solar Farm survey
28-Feb-23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Mel Thomson	Mark Saddler	Email	Sought confirmation of field work dates for the AFG and Solar Farm survey
4-Feb-23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Alan Williams	Email	Sought the invitation to Rob Carroll for inclusion in the online meeting. AW provided invite
6/Mar/23	Outgoing	Griffith LALC, Bidya Marra Consultancy, Roley Williams, Narrandera Aboriginal Community Inc,	Alan Williams, Taylar Reid, Sam Elias	-	In Person	Undertook an in-person meeting in Coleambally to discuss the project prior to the field survey getting underway. See meeting minutes for further details
7/Mar/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Alan Williams; Mel Thomson	Mark Saddler	Online meeting	Undertook an AFG meeting in Coleambally to discuss the project prior to the field survey getting underway. See meeting minutes for further details
7/Mar/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Robert Carroll	Alan Williams	Email	Apologised for missing the meeting , but advised he did not receive the input. AW advised it was sent, but happy to reschedule; and furhter suggested the next meeting would be in early April and we could revisit then. RC was keen on the next meeting in person, and would liaise with Mark Saddler to detemine whether discussions earlier was needed.

7/Mar/23	Outgoing	All RAPs	Alan Williams		Email	Sent AFG 1 meeting minutes to all RAPs.
22/Mar/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Called to confirm MS is booked into accom for the first 3 weeks of Wind survey. Noted there will be a 4th week of survey but he won't be rostered as the days need to be spread out equally between all RAPs, he was satisfied with the arrangement.
22/Mar/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson	Phone/Email	Called to request availability for wind survey 11 April - 4 May 2023. KA requested an email with details and he would call TR back tomorrow to discuss. TR sent email with details.
22/Mar/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	David Crew	Phone	Left a message requesting callback to discuss availability for wind survey.
22/Mar/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Phone	Confirmed availability for AFG 6 April and wind survey (17 - 21 April and 26 - 28 April for 2 representatives).
22/Mar/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	Confirmed availability for AFG 6 April and wind survey (11 - 21 April for 2 representatives).
22/Mar/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	Left a message requesting callback to discuss availability for wind survey.
23/Mar/23	Incoming	Bangarang Aboriginal Corporation	Kevin Atkinson	Taylar Reid	Phone	KA called TR to discuss email regarding wind survey. TR returned call and left message requesting callback.
23/Mar/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	No answer, no answering machine message.
23/Mar/23	Outgoing	Griffith LALC	Taylar Reid	Allan McKenzie	Phone	TR called AM, a rep for GLALC during solar survey and enquired about an alternative number or mobile number for Stephen or GLALC as landline was not ringing through and could be outdated and previous message had not yet been returned.
23/Mar/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	David Crew	Phone	Left another message requesting callback to discuss availability for wind survey.
23/Mar/23	Incoming	Griffith LALC	Roslyn Simpson	Taylar Reid	Phone	Called and provided Stephen Young's (CEO GLALC) mobile number. Confirmed she would be available for survey with AM the last two weeks (26 April - 5 May).
24/Mar/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson	Phone	TR confirmed availability for first and last week of wind survey (12-14 April, 1-5 May) for two reps, but not available for AFG. Happy to receive meeting minutes and chat about project while on-site that first week.
24/Mar/23	Incoming	Yarkuwa Indigenous Knowledge Centre	Keesha Reagan	Taylar Reid	Phone	Left TR a message returning missed calls for DC and requested callback to discuss upcoming survey.
24/Mar/23	Incoming	Griffith LALC	Stephen Young	Taylar Reid	Phone	Returned call. Confirmed GLALC will have two reps out for last two weeks of wind survey (26-28 April, 1-5 May). Also confirmed GLALC will have their own ute as RS and AM have other commitments and would like an extra vehicle in case of emergencies.
24/Mar/23	Outgoing	Griffith LALC	Taylar Reid	Allan McKenzie	Phone	Left message to confirm GLALC dates for wind survey (26 - 28 April, 1 - 5 May) for himself and RS. Requested a callback Monday to confirm availability.
27/Mar/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	Keesha Reagan	Phone	Returned call, left message requesting callback.
28/Mar/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Phone	Called to discuss proposed AFG meeting in Narrandera, RM suggested locations for AFG meeting and motels for TR to stay. Confirmed AFG to be 9AM on Thurs 6 April 2023 at Tangles Cafe.
28/Mar/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Called to confirm availability for AFG 2. MS is excavating at Lake Cargelligo and may not be able to attend. TR sent email with details and alternative options to meet. MS will confirm in the following days.
28/Mar/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	Confirmed available for AFG 2 in Narrandera Thurs 6 April 2023.
28/Mar/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	David Crew	Phone	Called to discuss AFG and wind survey. No answer, TR did not leave message but will try DC and KR again later today.
28/Mar/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	Called to discuss AFG availability. No answer, TR did not leave message. Will call RS and AM directly as they will be attending meeting/site surveys - this was previously discussed with SY and he was happy for TR to directly liaise with RS and AM.
28/Mar/23	Outgoing	Griffith LALC	Taylar Reid	Allan McKenzie	Phone	Called to discuss AFG availability. No answer, TR left message requesting callback.
28/Mar/23	Outgoing	Griffith LALC	Taylar Reid	Roslyn Simpson	Phone	Called to discuss AFG availability. RS confirmed she is available to attend, that it can be held at GLALC and will let Stephen know about meeting. TR noted that wind survey roster has been finalised, but one group has been difficult to contact & in the event they respond last minute and want to participate in fieldwork, TR was wondering if GLALC would be OK with having only one rep instead of two on site to accommodate this addtional group. But TBD - can be discussed further if the issue arises.
28/Mar/23	Outgoing	All RAPs	Taylar Reid		Email	Emailed the details for the AFG meeting #2 - confirming locations/times for Narrandera and Griffith, to occur Thurs 6 April. Option for online meeting if groups are unable to attend in person on the day.
31/Mar/23	Incoming	Bidya Marra Consultancy	James Ingram	Taylar Reid	Phone	Confirmed availability for AFG #2 and requested dates for his group for upcoming surveys.
4/Apr/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Check in with MS regarding father's health, MS confirmed he is OK and will be attending the survey for the previously agreed dates (11 - 27 April 2023, is now unable to attend Fri 28 April).
5/Apr/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson	Phone	Called to discuss number of representatives permitted on site for each RAP. Spark preference is only one representative with a maximum of four people allowed on site each day. No answer, left a message requesting callback.
5/Apr/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	Called to discuss number of representatives permitted on site for each RAP. Spark preference is only one representative with a maximum of four people allowed on site each day. Confirmed next week to proceed with 2 representatives due to short notice of the change.

5/Apr/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Phone	Called to discuss number of representatives permitted on site for each RAP. Spark preference is only one representative with a maximum of four people allowed on site each day. Will discuss more at AFG tomorrow but there will be a lot of walking for wind so RM will divide up his days with his rep Jason Matthews.
5/Apr/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	Called to discuss number of representatives permitted on site for each RAP. Spark preference is only one representative with a maximum of four people allowed on site each day. No answer, left a message requesting callback.
5/Apr/23	Outgoing	Griffith LALC	Taylar Reid	Allan McKenzie	Phone	Called to discuss number of representatives permitted on site for each RAP. Spark preference is only one representative with a maximum of four people allowed on site each day. AM will relay message to RS and SY, and will be at AFG tomorrow.
5/Apr/23	Incoming	Griffith LALC	Stephen Young	Taylar Reid	Phone	Returned call. Understands that only one rep is allowed for each RAP group. Will continue to have RS work with us. Both RS and AM will be attending AFG tomorrow, he will be absent.
5/Apr/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	David Crew	Phone	Called to engage for the fieldwork, finally managed to make contact. DC will have one of his representatives contact me to discuss the details further but will have a representative available for survey 17 - 21 April and 26 - 28 April. Unable to attend AFG but happy to receive minutes and organise an online meeting if needed. TR texted survey dates.
5/Apr/23	Incoming	Bangarang Aboriginal Corporation	Kevin Atkinson	Taylar Reid	Phone	Returned call. Confirmed two representatives for his group to attend next week, but client has requested only 1 rep per RAP going forward with a total of 4 reps on site. Said this was ok and requested email with details. TR also re-confirmed that as they were unable to attend AFG meeting tomorrow, an online meeting can be organised instead. TR sent email with survey dates and details.
5/Apr/23	Outgoing	Roley Williams, Bidya Marra Consultancy, Griffith LALC	Taylar Reid	Roley Williams, James Ingram, Roslyn Simpson	Phone	TR called RAPs due to flight cancellation, rescheduled AFG 2 meeting until Tuesday 11 April when TR and SE drive to Griffith for survey.
6/Apr/23	Outgoing	Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Bangarang Aboriginal Corporation	Taylar Reid	James Ingram, Mark Saddler, Kevin Atkinson	Email	TR confirmed meeting times/locations and survey info for next week.
6/Apr/23	Outgoing	All RAPs	Taylar Reid		Phone/Email	TR called all RAPs to reschedule AFG meeting to Tuesday 11 April in Narrandera and Griffith and provided agenda.
11/Apr/23	Incoming	Griffith LALC	Roslyn Simpson	Taylar Reid	Phone	Will be unable to make the AFG meeting today but AM would open GLALC and attend. RS is happy to receive meeting minutes or meet in person the following week if any questions following minutes
11/Apr/23		Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Bangarang Aboriginal Corporation, Roley Williams, Griffith LALC	Taylar Reid	James Ingram, Bruce Crowe, Roland Atkinson, David Edwards, Roley Williams, Jason Matthews, Mark Saddler, Allan McKenzie, Stephen Young	In Person	AFG Meeting 2: JI and RA raised topic of numerous Aboriginal ancestral remains that have been found in the region near the Project area. Solar survey week 1 summary: 22% (550ha) was surveyed, insufficient, aiming for ~70% coverage, will add an additional 5 days of Solar Farm survey to cover more land despite low visibility across project area, additional survey will target potential test ex areas where Soils team identified potentially deep topsoils, 11 Aboriginal sites found (6 hearths, 3 artefact scatters, 2 hearths with artefacts - all low density, small highly utilised flakes). Wind survey is very large area, won't be able to survey all ~250 turbine locations but aim will be to survey high potential areas (incl sand dune mapped areas, and creeklines), and good representation of all landforms present across Wind Farm area, no areas of cultural singificance were raised in the Wind Farm footprint specifically.
11/Apr/23	Outgoing	All RAPs	Taylar Reid		Email	Sent AFG Meeting 2 minutes and upcoming Fieldwork Roster 17 April - 12 May 2023 for additional solar survey and upcoming wind survey.
12 - 14/Apr/23		Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Bangarang Aboriginal Corporation	Sam Elias, Taylar Reid	Quentin Ingram, Bruce Crowe, Mark Saddler, Roland Atkinson, David Edwards	In Person	Solar Farm Additional Survey
14/Apr/23	Incoming	Yarkuwa Indigenous Knowledge Centre	Keesha Reagan	Taylar Reid	Phone	Called to confirm attendance for survey 17 - 28 April 2023. Noted that only one representative per RAP group allowed, but they will send two people for safety but they will be paying one rep themselves.
15/Apr/23	Incoming	Yarkuwa Indigenous Knowledge Centre	Keesha Reagan	Taylar Reid	Email	KR emailed to confirm the Project Areas are not within their Country boundaries and will be unable to attend the survey unless requested by the other local RAPs. TR resent Solar and Wind methodologies with maps to confirm the location of the project areas
15/Apr/23	Incoming	Bangarang Aboriginal Corporation	Roland Atkinson	Taylar Reid	Email	Provided photos of language boundary maps from Bangarang Cultural Centre, as well as greenstone axe mapping and star constellations.
16/Apr/23	Incoming	Roley Williams	Roley Williams	Taylar Reid	Phone	RW and Jason Matthews spoke with TR on phone, JM will be attending the survey for this upcoming week. RW is unwell, will need to confirm if he is able to attend the following week (26 - 28 April) and subsequent weeks.

16/Apr/23	Incoming	Yarkuwa Indigenous Knowledge Centre	Keisha Reagan	Taylar Reid	Email	KR emailed to confirm the Project Areas are not within their Country boundaries and will be unable to attend the survey unless requested by the other local RAPs. TR resent Solar and Wind methodologies with maps to confirm the location of the project areas and requesting further clarification if they would like to attend.
17-21/Apr/23		Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Roley Williams	Sam Elias, Taylar Reid	Quentin Ingram, Bruce Crowe, Mark Saddler, Jason Matthews	In Person	Addit Solar Survey/Wind Survey
17/Apr/23	Incoming	Bangarang Aboriginal Corporation	Kevin Atkinson	Taylar Reid	Phone	Called to confirm rates and hours for AFG meeting and survey last week. Requested update on upcoming survey schedule to ensure his crew would be able to attend.
17/Apr/23	Incoming	Bidya Marra Consultancy	James Ingram	Taylar Reid	Phone	Called to request more days for Bruce Crowe to attend survey as he grew up in the area and has strong cultural connections to Country.
18/Apr/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson	Phone	Texted KA requesting BAC attendance for 2 representatives (b/c coming from Shepperton) for 1 - 5 May and 8 - 12 May weeks of survey.
18/Apr/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	Texted JI requesting one representative to attend wind survey 26 - 28 April next week
18/Apr/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Informed MS that team will be staying at Brolga Motel in Coleambally for the next 3 weeks of survey and advised booking accommodation as well to reduce driving time.
18/Apr/23	Outgoing	Roley Williams	Taylar Reid	Jason Matthews	Phone	Called to check in with JM, he informed SE this morning he was unable to attend the survey today as he was still feeling sick. Had hives/heat rash yesterday on site but also had high blood sugar the last week and has been feeling unwell. TR checked in to see if he was feeling OK and requested he get a doctor's return to work certificate when he sees him tomorrow prior to returning to work due to the remote nature of the job and WHS risk.
18/Apr/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Phone	Called to see how RW was doing and if he would be able to attend site next week. RW was still feeling unwell but improving, and thinks he will be OK to attend site 1 - 5 May, requested to have JM with him as well. TR agreed this would be best for safety and have included them in the schedule together.
18/Apr/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Roland Atkinson	Phone	TR texted RA confirming request to KA for two sites officers for survey 1 - 5 May and 8 - 12 May. Request was for two people for safety while travelling from Shepperton. RA included photo of several bifacial flaked European glass and telecomms cylindars (similar to Kimberly style points), from Bangarang Cultural Centre.
19/Apr/23	Outgoing	Roley Williams	Taylar Reid	Jason Matthews	Phone	Spoke with JM requesting he get a medical certificate clearing him safe to work following his high blood sugar readings on site and skin reaction (hives). JM attended doctor's appointment on Fri 21 April 2023 and texted TR a copy of his medical certificate clearing him safe to continue working on site.
19/Apr/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Texted MS to confirm EMM will be staying in Coleambally for the remaining weeks of Wind survey as the drive to Griffith was too long. Recommended MS stay in town as well for safety and continue carpooling with EMM to site from accommodation.
19/Apr/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson	Phone	Texted to request two additional workers for 1 - 5 May and 8 - 12 May as Yarkuwa had removed themselves from the roster.
20/Apr/23	Outgoing	Griffith LALC, Bangarang Aboriginal Corporation, Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Roley Williams	Taylar Reid	Stephen Young, Kevin Atkinson, James Ingram, Mark Saddler, Roley Williams	Email	TR emailed wind survey dates with meeting times and locations for upcoming Wind survey over the coming weeks.
24-25/Apr/23	Outgoing	Griffith LALC, Bangarang Aboriginal Corporation, Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Roslyn Simpson, Roland Atkinson, Bruce Crowe, Mark Saddler	Phone	Called to confirm meeting times and location in Coleambally for Weds 26 April 2023 for Wind Survey.
25/Apr/23	Incoming	Roley Williams	Jason Matthews	Taylar Reid	Phone	JM called to confirm logistics for upcoming week. TR confirmed that an email was sent to RW changing fieldwork dates - RW and JM to both attend the Wind survey the following week (1 - 5 May) together, for additional safety as RW has been feeling unwell.
26-28/Apr/23		Griffith LALC, Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge	Sam Elias, Taylar Reid	Roslyn Simpson, Jason Crowe, Mark Saddler	In Person	Wind Survey
30/Apr/23	Outgoing	Roley Williams	Taylar Reid	Jason Matthews	Phone	Called JM to confirm him/Roley were attending site and staying in town. JM confirmed he would be attending but RW still feeling unwell. JM would be returning to Narrandera. On 4 May 2023 he wouldn't be able to attend as the community had a funeral.
30/Apr/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Roland Atkinson	Phone	Called RA to confirm him and another rep were attending site and staying in town. He confirmed for both. Discussed Country boundaries between Wiradjuri and Brap Brap (Bangarang) and how community should be sharing knowledge and working together across border boundaries.

30/Apr/23	Incoming	Yarkuwa Indigenous Knowledge Centre	Keisha Reagan	Taylar Reid	Email/Phone	Emailed and texted requesting meeting details for tomorrow (1 May 2023). TR returned message noting that previous conversation with KR indicated that the project area was outside of their cultural boundaries and so they were removed from the fieldwork roster. KR confirmed that some of the project area may extend into their area, and that David Crew would call TR to discuss.
1-5/May/23		Griffith LALC, Bangarang Aboriginal Corporation, Roley Williams	Sam Elias, Taylar Reid	Roslyn Simpson, Roland Atkinson, Matthew Atkinson, Jason Matthews	In Person	Wind Survey
4/May/23	Outgoing	All RAPs	Alan Wiliams		Email	Notification of test excavation proposed for late May.
5/May/23	Incoming	Griffith LALC	Roslyn Simpson	Taylar Reid	Phone	RS texted TR to say thank you for the last few weeks and learned a lot. RS and AM having issues with GLALC, will get in touch with TR if they continue to have dramas. Enquired about registering as their own parties, TR confirmed they could register for the project and continue to be consulted, but EMM would need to confirm with Spark and other RAPs if it's OK they participate in upcoming fieldwork. RS would confirm if ongoing issues continue and go from there.
5/May/23	Outgoing	Griffith LALC, Bangarang Aboriginal Corporation, Roley Williams, Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Roslyn Simpson, Roland Atkinson, Jason Matthews, Mark Saddler	Phone	TR texted team to say thank you for past few weeks and provided SE's mobile number as well as meeting time/location in Coleambally next week for final week of Wind survey.
8-12/May/23		Griffith LALC, Bangarang Aboriginal Corporation, Roley Williams, Bundyi Aboriginal Cultural Knowledge	Sam Elias, Pete Douglas	Roslyn Simpson, Roland Atkinson, Clinton Edwards, Jason Matthews, Mark Saddler	In Person	Wind Survey
8/May/23	Incoming	Bangarang Aboriginal Corporation	Kevin Atkinson	Taylar Reid	Phone	Called to confirm details for invoices. TR also discussed upcoming Solar test excavation, KA confirmed he would have people available for the first week (22-26 May 2023).
9/May/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	Called to lock in site rep for Solar test excavation (22 May - 2 June), noting that the second week may fall short if team finishes all the digging. If this occurs the groups rostered on for the second week of survey will be prioritised for the upcoming fieldwork package. JI confirmed he would have a rep available for both weeks.
9/May/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Called to lock in site rep for Solar test excavation (22 May - 2 June), noting that the second week may fall short if team finishes all the digging. If this occurs the groups rostered on for the second week of survey will be prioritised for the upcoming fieldwork package. MS requested TR to text him details as he was driving and that he would confirm his availability ASAP. TR texted the test ex dates.
9/May/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	David Crew	Phone	No answer, left message on answering machine requesting callback to discuss availability for upcoming Solar test excavation. TR also requested clarification around Yarkuwa's Country boundaries within the project area following last conversation with KR and no further contact from DC. TR invited DC to still participate in upcoming fieldwork if it's in their cultural boundaries and if they are still interested.
9/May/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	Keesha Reagan	Phone	No answer, TR left message requesting callback to discuss cultural boundaries and whether Yarkuwa would like to be involved in the upcoming Solar test excavation program scheduled for the end of May.
9/May/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Phone	TR called to check in on his health and discuss upcoming Solar test excavation program. RW confirmed JM will be available for the first week (22 - 26 May), RW thinks he will be feeling better by then and would like to attend as well.
9/May/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	No answer, requested callback to discuss availability for second week of Solar test excavation (29 May - 2 June) noting that if that week finishes early, those groups will be prioritised for the next upcoming package of fieldwork.
9/May/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Phone	MS confirmed availability for first week 22 - 29 May of the Solar test excavation.
9/May/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	Called to ask if JI would have availability for two reps for the second week only - to balance out fieldwork roster as several groups had prior commitments that week. JI confirmed he would have two reps available for the second week (29 May - 2 June).
9/May/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	TR texted to confirm she will book MS accommodation for the week he is attending the Solar test excavation.
9/May/23	Incoming	Griffith LALC	Stephen Young	Taylar Reid	Phone	Returned call, confirmed RS will be available for the second week of Solar test excavation (29 May - 2 June).

9/May/23	Incoming	Yarkuwa Indigenous Knowledge Centre	Kasey (Unknown)	Taylar Reid	Phone	Kacey received a call from DC requesting she contact TR to discuss project area and cultural boundaries as well as upcoming Solar test excavation. Kacey confirmed she will double check cultural boundaries with DC and call TR back to discuss.
11/May/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Email	Sent details for Solar test excavation & conditions of engagement & handover/EMM contacts.
11/May/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone/Email	Had to reshuffle roster, requested only 1 site rep for the second week of test ex. JI confirmed this was OK. TR sent Solar test ex engagement & EMM contacts handover email.
11/May/23	Outgoing	Griffith LALC	Taylar Reid	Allan McKenzie	Email	Griffith LALC email had automatic reply that SY was on leave until 15 May 2023. TR sent follow up email to AM to ensure at least contact details were received prior to her going on leave.
11/May/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson	Email	Sent details for Solar test excavation & conditions of engagement & handover/EMM contacts.
11/May/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Email	Sent details for Solar test excavation & conditions of engagement & handover/EMM contacts. Also requested RW obtain a Fit for Work letter from a doctor again prior to attending site. TR clarified two reps have been rostered for his group for additional safety and EMM want to continue to involve him with site work whenever he is feeling well to attend safely.
11/May/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Email	Sent details for Solar test excavation & conditions of engagement & handover/EMM contacts.
17/May/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Megan Sheppard Brennand	Mark Saddler	Phone	Called to confirm that Bundyi would have a site officer to attend the test excavation from 22nd - 26th May. Mark confirmed that he would be attending and asked Megan to resend the email and he would respond
17/May/23	Outgoing	Roley Williams	Megan Sheppard Brennand	Roley Williams	Phone	Called to confirm that Roley would have two site officers to attend the test excavation from 22nd - 26th May. Roley confirmed that he would
17/May/23	Outgoing	Bangarang Aboriginal Corporation	Megan Sheppard Brennand	Kevin Atkinson	Phone	Called to confirm Bangarang would have two site officers to attend the test excavation from 22nd - 26th May. Kevin confirmed that he would
17/May/23	Outgoing	Griffith LALC	Megan Sheppard Brennand	Stephen Young	Phone	Called to confirm the LALC would have one site officer to attend the test excavation from 29th May-2nd June. They confirmed that they would.
17/May/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Email	MS sent his cultural report for the Dinawan Solar Farm.
17/May/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Megan Sheppard Brennand	Email	Replied to Taylar's email to confirm they would be attending the test excavation.
17/May/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Megan Sheppard Brennand	David Crew	Phone	Called to check if Yarkuwa would have a site officer available to attend the test excavation from 29th May-2nd June. No answer, left voice message and said if we didn't hear anything by tomorrow we would have to give the work to another group.
18/May/23	Outgoing	Bidya Marra Consultancy	Megan Sheppard Brennand	James Ingram	Phone	Called James to ask if he would have two site officers available to attend the test excavation from 29th May - 2nd June. James said that he would and asked Megan to forward Taylar's email so that he could reply.
18/May/23	Incoming	Bidya Marra Consultancy	Megan Sheppard Brennand	James Ingram	Email	Replied to Taylar's email to confirm they would be attending the test excavation with two site officers from 29th May - 2nd June.
19/May/23	Incoming	Yarkuwa Indigenous Knowledge Centre	Kasey (unknown)	Megan Sheppard Brennand	Phone	Kasey returned Megan's call to David. Megan informed Kasey that unfortunately another group had been invited to the test excavation but Yarkuwa could be involved in future fieldwork. Kasey said this was acceptable.
22 - 30 May 2023		Mark Saddler, Roley Williams, Bangarang Aboriginal Corporation, Griffith LALC, Bidya Marra Consultancy	Sam Elias, Megan Sheppard Brennand, Pete Douglas, Courtney Culley	Mark Saddler, Roley Williams, Jason Matthews, Roland Atkinson, Roslyn Simpson, Bruce Crowe, Jason Crowe	On-site	Solar Farm Test Excavation
27/May/23		Bidya Marra Consultancy	Bruce Crowe & Jason Crowe	Sam Elias	On-site	Issues with Bruce/Jason Crowe on site - frustrated and getting aggressive that Bangarang are involved with fieldwork and they're working off-Country. Also continuous inappprioprate behaviour towards female archaeologist.
19/Jun/23	Outgoing	All RAPs	Taylar Reid		Email	Emailed to inform of upcoming fieldwork for Wind (2 weeks additional survey, 1-2 weeks of test excavation) and requested Organisation's availability for four weeks from 10 July - 4 August 2023.
19/Jun/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Email	Confirmed availability for 10 - 21 July 2023 additional Wind surveys.
20/Jun/23	Incoming	Griffith LALC	Stephen Young	Taylar Reid	Email	Confirmed availability for all proposed dates. TR provided two roster options considering the first week of survey falls on school holidays.
24/Jun/23	Incoming	Bidya Marra Consultancy	James Ingram	Taylar Reid	Email	Confirmed availability for all proposed dates. TR confirmed roster for one representative for weeks 10 - 14 Jul and 17 - 21 Jul.

27/Jun/23	Outgoing	All RAPs	Taylar Reid		Email	Requested outstanding groups to provide availability for survey. Noted to all test excavation delayed to 31 July - 4 Aug and 7 - 11 Aug. Requested JI (Bidya Marra) to call Mel Thomson (EMM) to discuss ongoing issues with several representatives regarding inappriopriate behaviour on site.
28/Jun/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Email	TR confirmed MS attendance for Wind survey, and requested any further availability in August. MS replied he is unavailable until September.
28/Jun/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Email	Requesting attendance for wind survey first and second week. RW confirmed JM would be available but only for the second week due to school holidays. TR confirmed their attendance.
28/Jun/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Mel Thomson	Tracey Hamilton	Email	MT spoke with TH on the phone regarding Yarkuwa's boundaries and provided an email with the methodology and map of the project area with LALC boundaries.
2/Jul/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Email	Requested two representatives to attend both the first and second week of survey (10 - 14 July and 17 - 21 July). SY confirmed this would be possible.
2/Jul/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Alan Williams	Phone	MS advised that a burial was recovered from a sand quarry in 2003 extremely close to the project area. No location details and he can find little record of it, but sand dunes are a landform of concern, notably regarding Wind area.
6/Jul/23	Incoming	Griffith LALC	Stephen Young	Taylar Reid	Email	Requested meeting location for upcoming Wind survey (10 - 14 July).
6/Jul/23	Outgoing	All RAPs	Mel Thomson		Email	Requested updated copies of public liability & professional indemnity insurances, and signed sub-contractors contract for new financial year.
8/Jul/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Alan Williams, Mel Thomson, Taylar Reid	Email	MS spoke with Bidya Marra and heard there was to be a meeting about an issue on-site. MS requested to know the issue and why he was not notified of the meeting. Also noted the project area is on Wiradjuri Country and some representatives are working off-Country. EMM confirmed meeting is regarding a private matter unrelated to project works or Country.
8/Jul/23	Incoming	Bidya Marra Consultancy	James Ingram	Mark Saddler, Alan Williams, Mel Thomson, Taylar Reid	Email	JI also requested MS to attend the phone conversation to further discuss country boundaries.
11/Jul/23	Outgoing	Bidya Marra Consultancy, Spark Renewables, EMM	Mel Thomson (EMM), David Richards (EMM), Kate Cox (EMM), Julian Kasby (Spark), Lawrence Wallis (Spark), James Ingram (Bidya Marra), Jason Crowe (Bidya Marra)		Online meeting	Discussion about inappropriate behaviour towards female arch on-site. Requesting Jason not participate in future fieldwork but continue to be updated and consulted on project. Bidya Marra to continue to participate in fieldwork but use other representatives (Quentin/Bruce/Brandon). JI refused, insisting to only send Jason. EMM refuse to work with JC on-site, Spark to use a sub-contractor to complete fieldwork if JC continues to be only rep for BM.
13/Jul/23	Incoming	Yurung	Kira-Lea Dargin	Julian Kasby (Spark)	Email	Requested to register for Dinawan Wind project and whether the formal notification process was followed. JK responded 20 July and cc'd EMM, confirming the formal process was followed and EMM was the consultant undertaking the ACHA process.
14/Jul/23	Outgoing	All RAPs	Alan Williams		Email	Notification of test excavation in Wind area proposed for late July/early August.
14/Jul/23	Incoming	Bidya Marra Consultancy	James Ingram	Mel Thomson	Email	Requested to know when official letter regarding issue on-site would be provided. MT responded, EMM and Spark Renewables are still conducting a review of the incident and drafting a formal response.
19/Jul/23	Incoming	Bidya Marra Consultancy	James Ingram	Mel Thomson	Email	Requested update on review progress and when Jason/Bruce Crowe could return to work on-site. MT responded, EMM and Spark are still continuing their conversation on the matter, also noted Wind farm survey will finish 21 July and not recommence until early August, requesting what dates his organisation is available to participate as well for an AFG between 31 July - 4 Aug.
24/Jul/23	Outgoing	Bidya Marra Consultancy	Mel Thomson	James Ingram	Email	Confirmed availability for 31 July and 1 Aug, requested meeting at Yanco DPI complex at 10am if possible.
1/Aug/23	Outgoing	All RAPs	Taylar Reid		Email	Notifying all RAPs of upcoming (3rd) AFG meeting.
4/Aug/23	Outgoing	All RAPs	Taylar Reid		Email	Followed-up AFG meeting email, requesting a confirmation of availability.
4/Aug/23	Incoming	Roley Williams	Roley Williams	Taylar Reid	Email	Confirmed himself and Jason Matthews will be in attendance.
5/Aug/23	Incomimg	Bidya Marra Consultancy	James Ingram	Taylar Reid	Email	Confirmed himself, Bruce, Jason, and Brandon crowe will be in attendance.
9/Aug/23	Incoming	Griffith LALC	Stephen Young	Mel Thomson	Phone	Confirmed that he would be available for the AFG meeting at the LALC offices at 2pm on Thrusday 17 August
9/Aug/23	Outgoing	Bangarang Aboriginal Corporation	Kevin Atkinson	Mel Thomson	Phone	Call to Kevin to request response for attendance at AFG. No response.
14/Aug/23	Outgoing	Bangarang Aboriginal Corporation	Kevin Atkinson	Mel Thomson	Phone	Follow up text message to check on availability to attend the AFG meeting onn Thursday 17 August

15/Aug/23	Outgoing	Roley Williams, Bidya Marra Consultancy, Griffith LALC, Bundyi Aboriginal Cultural Knowledge, Bangarang Aboriginal Corporation	Taylar Reid		Email	Emailed groups requesting availability for upcoming test excavation program 28 August - 8 September.
15/Aug/23	Incoming	Roley Williams	Roley Williams	Taylar Reid	Email	Confirmed availability for 2 reps second week of test excavation (4-8 Sept)
15/Aug/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Email	Confirmed availability for second week of test excavation (4-8 Sept)
15/Aug/23	Incoming	Bidya Marra Consultancy	James Ingram	Taylar Reid	Email	Confirmed availability for 2 reps first week of test excavation (28 Aug - 1 Sept)
16/Aug/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson, Roland Atkinson	Phone	Confirmed availability for 2 reps first week of test excavation (28 Aug - 1 Sept). Requested to include Roland Atkinson (RA) in email communications going forward as he is conducting the work. TR spoke with RA to discuss and confirmed EMM could organise an online AFG meeting.
16/Aug/23	Incoming	Griffith LALC	Stephen Young	Taylar Reid	Email	Confirmed availability for test excavation for 2 reps second week.
17/Aug/23		Roley Williams, Bidya Marra Consultancy, Griffith LALC	Alan Williams (EMM), Julian Kasby & Shaurntae Lyons (Spark)	Roley Williams, James Ingram, Bruce Crowe, Jason Crowe, Steven Young	In Person	AFG Meeting 3: AW provided detailed summary of works to date for Dinawan Solar and Wind Farms. Discussion of general contents of Solar ACHA with focus on significance, potential impacts, and recommendations. Outlined findings of Wind Farm investigations so far, discussed upcoming test ex program. Outlined broad timing of Solar/Wind farm activities through rest of 2023.
21/Aug/23	Outgoing	Bangarang Aboriginal Corporation	Melanie Thomson	Kevin Atkinson	Phone	Called Kevin to request insurance details prior to field work. No aswer so followed up with a text message.
21/Aug/23	Outgoing	Bangarang Aboriginal Corporation	Kevin Atkinson	Melanie Thomson	Phone	Called back and left message that he would be available for a chat tomorrow.
22/Aug/23	Outgoing	Bangarang Aboriginal Corporation	Melanie Thomson	Kevin Atkinson	Phone	Called Kevin back to request current insurances. Kevin emailed these through directly while we were speaking on the phone. He also confirmed their availability for reps in the week of the 28th August
22/Aug/23	Incoming	Bangarang Aboriginal Corporation	Kevin Atkinson	Melanie Thomson	Email	Kevin provided relevant insurance documentation via email.
22/Aug/23	Outgoing	Bangarang Aboriginal Corporation	Melanie Thomson	Kevin Atkinson	Email	Provided details for meeting place and time for field work on Monday 28th August
22/Aug/23	Outgoing	Griffith LALC	Melanie Thomson	Stephen Young	Email	Requested change to field work dates from the week of the 4th September to the 28th August.
22/Aug/23	Incoming	Griffith LALC	Stephen Young	Melanie Thomson	Email	Stephen confirmed that Allan McKenzie would attend field work from the 28th for a week.
22/Aug/23	Outgoing	Bidya Marra Consultancy	Melanie Thomson	James Ingram	Email	Requested update to field work dates for two week not one week between 28th August to 8 September
22/Aug/23	Incoming	Bidya Marra Consultancy	James Ingram	Melanie Thomson	Email	Confirmed availability of a team of 2 reps for 2 weeks, and EMM provided confirmation of meeting time and place.
28 Aug - 8 Sept 2023		Mark Saddler, Roley Williams, Bangarang Aboriginal Corporation, Griffith LALC, Bidya Marra Consultancy	Sam Elias, Pete Douglas, Courtney Culley, Amber Morgan	Mark Saddler, Roley Williams, Jason Matthews, Roland Atkinson, Alan McKenzie, Bruce Crowe, Jason Crowe	On-site	Wind Farm Test Excavation
29/Aug/23	Outgoing	All RAPs	Taylar Reid		Email	Provided copy of draft Solar Farm ACHA for review by 26 Sept 2023.
31/Aug/23	Incoming	Roley Williams	Roley Williams	Taylar Reid	Email	Requested to have a hard copy posted.
1/Sep/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Email	EMM sent a colour copy of draft ACHA to RW, arrival by 5 Sept tracking number: 228074216
3/Sep/23	Incoming	Bidya Marra Consultancy	James Ingram	Sam Elias	Email	Emailed to clarify which dates BM would be on-site for Wind test excavation. SE confirmed BM are rostered for 4-8 September.
5/Sep/23	Outgoing	Griffith LALC	Melanie Thomson	Stephen Young	Email	Emailed as GLALC had 2 RAPs on-site for 4 Sept 2023 but only rostered for first week of Wind test ex program (28 Aug - 1 Sept)
21/Sep/23	Outgoing	All RAPs	Taylar Reid		Email	Reminder comments for the draft Solar ACHA are due by 26 September, will discuss outcomes of ACHA over the phone if preferred.
25/Sep/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	No answer, left a message. Called to remind draft Solar ACHA comment period ends by COB tomorrow.
25/Sep/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	BMC support the draft Solar ACHA impacts and mitigation methods.
25/Sep/23	Outgoing	Yarkuwa Indigenous Knowledge Centre	Taylar Reid	David Crew	Phone	DC will review the draft Solar ACHA tonight and provide questions/comments before COB tomorrow.
25/Sep/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Requested the email and link to be forwarded again, will review tonight and provide any questions/comments by COB tomorrow. Noted he was satisfied with impacts and mitigation methods discussed during the AFG, but wants to ensure that cultural training and awareness for the construction workers is included as a measure.
25/Sep/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Phone	Only comment for draft Solar ACHA is to determine a reburial place for the artefacts that have been/would be recovered from site. TR confirmed this would be detailed in the ACHMP, in consultation with the RAPs, which is included as a recommendation in the ACHA. RW noted he would prefer the artefacts are reburied on Country rather than kept in a Keeping Place.
25/Sep/23	Outgoing	Bangarang Aboriginal Corporation	Taylar Reid	Kevin Atkinson	Phone	BAC support the draft Solar ACHA impacts and mitigations.

25/Sep/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Email	Supports the draft Solar ACHA generally, and provided several comments. All cultural materials identified during the field investigations should be documented and protected. Requested some parameters around artefact collection and reburial, monitoring site works, cultural inductions, etc are included in recommendations. Signs should be erected on all sites to acknowledge visitor is on Wiradjuri Country. Acknowledgement of Country should be included at beginning of ACHA report. Spark to incorporate minimum Aboriginal employment requirments in their employment contracts. EMM replied to all comments on 26 Sept and included in draft ACHA.
22/Nov/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Called requesting availability for next week or Dec 11 for the Wind re-alignment survey. No answer, left message requesting callback.
22/Nov/23	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Phone	Requested availability for next week or Dec 11 week for the Wind re-alignment survey. RW and JM are available week 11-13 Dec.
22/Nov/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	Called requesting availability for next week or Dec 11 for the Wind re-alignment survey. No answer, sent a text with info and left a voicemail requesting callback.
22/Nov/23	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Phone	MS texted and confirmed he is available 11-13 Dec if his new 2023-24 rates are approved and confirmed by client, which occurred and locked in.
23/Nov/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	Called again requesting availability for next week or Dec 11 for the Wind re-alignment survey. No answer again, left message requesting callback. Called a second time, no answer, left a voicemail and sent a text requesting callback or we would need to invite another RAP to participate due to the short notice.
24/Nov/23	Outgoing	Bidya Marra Consultancy	Taylar Reid	James Ingram	Phone	Called requesting availability for one sites officer for 11-13 Dec for Wind re-alignment survey. Confirmed he would have one available.
24/Nov/23	Outgoing	Griffith LALC	Taylar Reid	Stephen Young	Phone	Texted SY stating all positions were full for the upcoming Wind re-alignment survey. TR followed up with phone call, SY was on leave but understands the spots are full and OK that GLALC will be prioritised for future works.
30/Nov/23	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Phone	Texted requesting if MS needed accommodation organised for Coleambally, but already booked in.
30/Nov/23	Outgoing	Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Roley Williams	Taylar Reid	-	Email	Provided meeting details for Wind Farm realignment surveys 11-13 December 2023.
8/Dec/23	Outgoing	Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Roley Williams	Taylar Reid	James Ingram, Mark Saddler, Roley Williams	Phone	Called to re-schedule Wind alignment surveys to 2024 due to extreme weather (heatwave) predicted for following week (11-13 Dec).
14/Dec/23	Outgoing	Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Roley Williams	Taylar Reid	James Ingram, Mark Saddler, Roley Williams	Phone/Email	Scheduling Wind alignment surveys for 17-19 January 2024. All confirmed availability.
14/Dec/23	Outgoing	All RAPs	Taylar Reid		Email	Notified all RAPs that the Wind alignment surveys proposed for this week (11-13 Dec) were rescheduled for Jan 2024 and more info will be provided in the New Year.
8/Jan/24	Incoming	Bidya Marra Consultancy	James Ingram	Taylar Reid	Phone	Called to confirm Wind survey dates for next week (17-19 Jan 2024).
8/Jan/24	Outgoing	Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Roley Williams	James Ingram, Mark Saddler, Roley Williams	Taylar Reid	Email	Confirmed Wind realignment surveys will be going ahead next week (17-19 Jan 2024), provided meeting details etc.
9/Jan/24	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Email	Confirmed receipt of email and fieldwork confirmation.
9/Jan/24	Incoming	Roley Williams	Roley Williams	Taylar Reid	Email	Confirmed receipt of emaill. Noted himself and Jason Matthews will not be in attendance on Thursday to attend a funeral in Narrandera.
12/Jan/24	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Email	Responded to earlier email regarding a burial located 40km NE of project area requesting more information about the find. MS and TR to discuss in the field during Wind survey (17-19 Jan 2024).
17-19/Jan/24		Bidya Marra Consultancy, Bundyi Aboriginal Cultural Knowledge, Roley Williams	Amber Morgan, Taylar Reid		In Person	Wind realigment surveys.
22/Jan/24	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Taylar Reid	Email	Provided report for Wind field investigations with recommendations for cultural monitors, inductions, and test excavation of several sites with hearths and/or PAD.
25/Jan/24	Outgoing	All RAPs	Taylar Reid		Email	Provided Wind project update following completion of Wind field investigations. Solar RTS phase update and AFG to be organised in coming weeks.
5/Feb/24	Outgoing	Bundyi Aboriginal Cultural Knowledge	Taylar Reid	Mark Saddler	Email	Received Wind report and have incorporated comments into the Wind ACHA recommendations.
19/Feb/24	Outgoing	Roley Williams, Bidya Marra Consultancy, Griffith LALC, Bundyi Aboriginal Cultural Knowledge, Bangarang Aboriginal Corporation	Taylar Reid	Roley Williams & Jason Matthews, James Ingram, Stephen Young, Mark Saddler, Kevin Atkinson & Roland Atkinson	Phone	Confirmed availability for AFG #4 on Weds 28 February followed by survey on Thurs (GLALC & Bangarang), potentially Friday. AFG to discuss findings of Wind ACHA and recommendations and Solar RTS comments & response. MS noted he will be unable to attend the AFG but trusts TR, AW, and the wider EMM team that we will make the correct decisions regarding protecting their cultural heritage, was happy with the proposed Solar RTS process (survey of areas outside EIS footprint).
20/Feb/24	Outgoing	All RAPs	Taylar Reid		Email	Provided meeting information and topics of discussion for AFG #4 to be held on Weds 28 February.
20/Feb/24	Outgoing	Griffith LALC, Bangarang Aboriginal Corporation	Taylar Reid	Stephen Young, Kevin Atkinson	Email	Provided details for Solar RTS survey Thurs 29 Feb - Fri 1 March.
20/Feb/24	Outgoing	Griffith LALC, Bangarang Aboriginal Corporation	Taylar Reid	Stephen Young, Kevin Atkinson & Roland Atkinson	Phone	Called to confirm that the Solar survey is no longer going ahead, Spark will reduce original EIS footprint but remove small areas that were to extend outside the original footprint. TR left message with SY explaining situation and requesting callback.

28/Feb/24		Griffith LALC, Bidya Marra Consultancy, Roley Williams	Taylar Reid (EMM), Alan Williams (EMM), Julian Kasby (Spark), Alexis Tubb (Spark)	Stephen Young (GLALC), James Ingram, Bruce Crowe & Robert Pengelly (BMC), Roley Williams & Jason Matthews (RM)	In Person	AFG Meeting 4: provided overview of findings of Wind project & specifically the assessment process, timing & expected next steps including timing of EIS activities. Discussed response to submission process for Solar project, including comments made on ACHA by HNSW and EMM's subsequent addendum - involved detailed discussion of addendum report including changes and key points. Discussions included ACHMPs for both Wind and Solar projects, sought inputs from participants noting details would be determined during ACHMP process.
8/Apr/24	Outgoing	All RAPs	Taylar Reid		Email	Provided draft Wind ACHA report for 28-day review period, comments due 6 May 2024.
8/Apr/24	Incoming	Roley Williams	Roley Williams	Taylar Reid	Email	Requested a hard copy to be posted to him.
10/Apr/24	Outgoing	Roley Williams	Taylar Reid	Roley Williams	Email & Post	EMM sent draft Wind ACHA to RW via registered post - tracking # EZY000032698.
11/Apr/24	Incoming	Roley Williams	Taylar Reid	FedEx Express	Email	RW received Dinawan Wind draft ACHA.
23/Apr/24	Outgoing	All RAPs	Sam Ellias		Email	Sent out invitation for AFG #5 meeting 8 May 2024 in Griffith and Narrandera to discuss both the results of the Solar RTS addendum and the Dinawan Wind ACHA.
23/Apr/24	Incoming	Bundyi Aboriginal Cultural Knowledge	Mark Saddler	Alan Williams	Email	Will not be able to attend AFG #5 meeting on 8 May 2024, requested to organise an online meeting. AW responded that online facilities at the GLALC may not be available but can organise another online meeting sometime that week to discuss - requested his availability.
3/May/24	Outgoing	All RAPs	Taylar Reid		Email	Reminder comments for the draft Wind ACHA are due 6 May, but the assessment and proposed management recommendations will be discussed at the AFG 8 May. TR included AFG meeting details email.
10/May/24	Outgoing	Griffith LALC, Bidya Marra Consultancy, Roley Williams	Alan Williams (EMM), Julian Kasby (Spark), Alexis Tubb (Spark)	-	Meeting	AFG Meeting 5: provided overview of solar ACHA activities and undertook detailed discussion of the draft wind ACHA. See meeting minutes for details.
13/May/24	Outgoing	Bundyi Aboriginal Cultural Knowledge	Alan Williams	Mark Saddler	Email	Asked MS if he wanted an online briefing since he could not make the AFG meeting. Indicated he was extremely busy and had no capacity. AW advised he would keep him in the loop and could provide a briefing whenver convenient in the coming weeks.
16/May/24	Outgoing	Griffith LALC, Bidya Marra Consultancy, Roley Williams	Alan Williams	-	Email	Distribution of AFG 5 meeting minutes for review and inputs where needed, and provision of link to report again
17/May/24	Incoming	Roley Williams	Roley Williams	Alan Williams	Email	Sought clarification of the minutes, since he felt that revisitng all sites by RAPS was an outcome of the meeting. AW directed to specific points already in the minutes where these converations and acitons from them where determined, and asked if they were accurate

Taylar Reid

From: Nicole Davis <Nicole.Davis@environment.nsw.gov.au>
Sent: Friday, 5 May 2023 12:19 PM
To: Alan Williams
Cc: Kym McNamara; David Richards; Taylar Reid
Subject: Heritage NSW Reply - Dinawan Solar Farm - ACH - test excavation notification

CAUTION: This email originated outside of the Organisation.

Hi Al,

Thank you for your notification as per Requirement 15 of the CoP - in relation to the upcoming Aboriginal archaeological test excavations, at the proposed Dinawan Solar Farm (SSD-50725959), I shall place file for future reference.

Cheers Nic

Nicole Davis
Manager Assessments
Heritage NSW
Department of Planning and Environment

T 02 4927 3156 M 0409 394 343 E nicole.davis@environment.nsw.gov.au
Locked Bag 5020 Parramatta 2124

From: Alan Williams <awilliams@emmconsulting.com.au>
Sent: Thursday, 4 May 2023 1:33 PM
To: OEH HD Heritage Mailbox <HERITAGEMailbox@environment.nsw.gov.au>
Cc: Kym McNamara <Kym.McNamara@environment.nsw.gov.au>; Nicole Davis <Nicole.Davis@environment.nsw.gov.au>; David Richards <drichards@emmconsulting.com.au>; Taylar Reid <treid@emmconsulting.com.au>
Subject: Dinawan Solar Farm - ACH - test excavation notification

Dear Kym, Nic and ACH Team,

In accordance with Requirement 15 of the Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW, we wish to advise that EMM Consulting Pty Ltd is proposing to undertake Aboriginal archaeological test excavations for Dinawan Solar Farm (SSD-50725959) between 22 May 2023 and mid-June 2023.

Further details of these excavations are included in the attached documentation (refer Section 4.3 provided to the RAPs on 23 January 2023) and supplemented with the attached figure on 4 May 2023, which identifies potential extent of test excavation (A and B) within the proposed development footprint.

Test pits may also be undertaken at select Aboriginal sites identified within the development footprint to confirm validity of some site types should it be required.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

EMM
creating opportunities

T 02 9493 9500
M 0438 104 740
D 02 9493 9584
Connect with us

SYDNEY | Ground floor, 20 Chandos Street, St Leonards NSW 2065

Associate Investigator
ARC Centre of Excellence for Australian
Biodiversity and Heritage (CABAH)
University of New South Wales
Sydney, NSW 2052

Adjunct Senior Lecturer
School of Biological, Earth and Environmental Sciences
University of New South Wales,
Sydney, NSW 2052

Industry F
Institute o
University
Ultimo, N

AUSTRALIAN RESEARCH COUNCIL
Centre of Excellence for Australian Biodiversity and Heritage

UNSW SYDNEY
UNSW Earth and Sustainability Science Research Centre

UNIVERSITY OF

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https://www.mailguard.com.au/mg

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B.2 List of identified Aboriginal stakeholders in the region

- Bangarang Aboriginal Corporation
- Miyagan Culture & Heritage
- Patricia Winch
- Will Carter
- Yarkuwa Indigenous Knowledge Centre
- Griffith Local Aboriginal Land Council
- Waddi Housing and Advancement Corporation
- John Jackson
- Roley Williams
- Cummeragunja Local Aboriginal Land Council
- Bundyi Aboriginal Cultural Knowledge

B.3 Stage 1 – Notification and registration

Ground floor 20 Chandos Street
St Leonards NSW 2065
PO Box 21
St Leonards NSW 1590
02 9493 9500
www.emmconsulting.com.au

22 November 2022

Re: Dinawan Solar Farm - Aboriginal cultural heritage assessment - request for information

Dear Sir/Madam,

EMM Consulting Pty Limited (EMM) has been commissioned by Spark Renewables Pty Limited (Spark Renewables) to undertake an Aboriginal Cultural Heritage Assessment (ACHA) for the Dinawan Solar Farm, a large-scale solar photovoltaic (PV) generation facility and battery energy storage system (BESS), supported by associated infrastructure (the project). The project will be located about halfway between the towns of Coleambally and Jerilderie and lies within the Murrumbidgee local government area (LGA). The project is part of the Dinawan Energy Hub, which comprises a hybrid wind and solar farm and BESS, and will be delivered through two separate, but related, State Significant Development (SSD) applications to the NSW Department of Planning and Environment (DPE).

The project investigation area is divided into two distinct sections, one to the west of Kidman Way and one to the east (Table 1; Figure 1.1). Kidman Way is a regional road linking the Newell Highway (approximately 19 km south of the project investigation area) with the Sturt, Mid-Western, Barrier, Mitchell and Kamilaroi highways.

The project comprises a large-scale solar PV generation facility and BESS, supported by associated infrastructure. The project investigation area is approximately 4,500 hectares (ha). Within the project investigation area, the development footprint is expected to be around 2,500 ha. The final layout and capacity of the project will be selected on the basis of environmental constraints identification, outcomes of stakeholder engagement, engineering assessments and design of project infrastructure.

The aim of the ACHA is to inform the assessment of Aboriginal cultural heritage in relation to the project and to develop suitable avoidance, minimisation, mitigation and/or management measures to facilitate the SSD approval process.

The proponent contact is: Julian Kasby, Senior Development Manager, Spark Renewables, T: 0411 638 651, E: julian.kasby@sparkrenewables.com, A: 4/1A Rialto Lane, Manly, NSW 2095.

In accordance with NSW State government's *Aboriginal cultural heritage consultation requirements for proponents 2010*, I am writing to you to seek information on relevant Aboriginal individuals and/or communities that you are aware of in the region, and who may hold cultural knowledge and/or information about Aboriginal objects and sites in the vicinity of the site. I kindly request you please provide me with this information as soon as possible at the Sydney address above, or awilliams@emmconsulting.com.au.

If you have any questions or enquiries, please don't hesitate to contact me on 02 9493 9500.

Yours sincerely

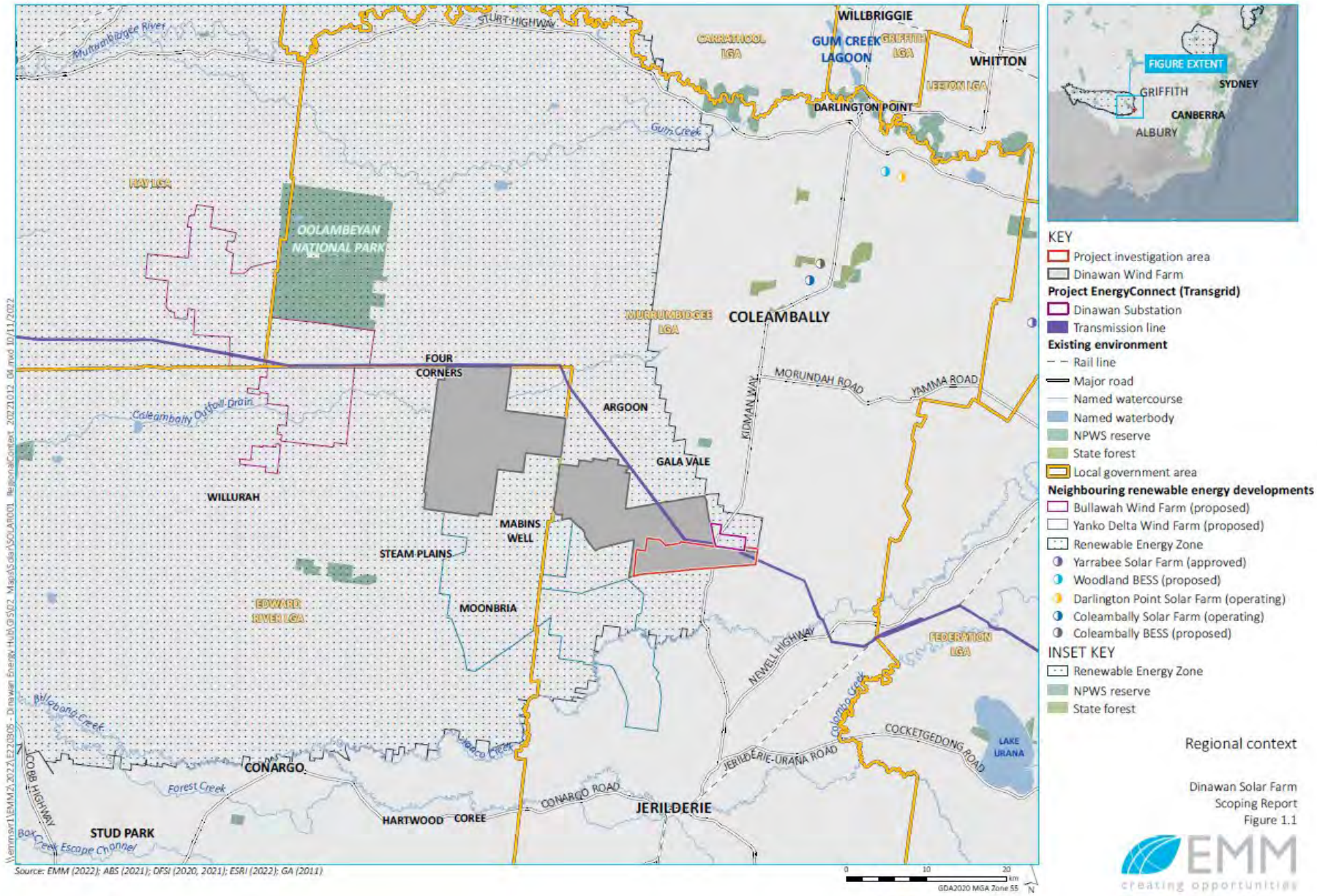
Dr Alan Williams
Technical Lead, Aboriginal Heritage
awilliams@emmconsulting.com.au

Table 1 Cadastral lots within project investigation area

Lot	DP
8	532988
49	756444
48	756444
47	756444
46	756444
29	756444
28	756444
27	756444
103	756444
104	756444
105	756444
106	756444
107	756444
108	756444
26	756444
24	756444
32	756444
31	756444
30	756444
45	756444
44	756444
44	756396
10	113903
41	756396
39	756396
7	113903
110	756444
125	756444
22A	756444
111	756444
112	756444

Table 1 Cadastral lots within project investigation area

Lot	DP
109	756444
23	756444
5	594041
133	756396
113	756444
114	756444
134	756396
40	756396
1	532988
2	532988
8	113903
3	532988
4	532988
5	532988
6	532988
6	113903
7	532988
9	113903
6	594041
43	756396
1	113903
7	594041
42	756396
45	756396
46	756396
47	756396
48	756396
50	756396
51	756396
2	1244278
3	1244278



Regional context

Dinawan Solar Farm
Scoping Report
Figure 1.1

REQUEST FOR SEARCH OF LAND CLAIM REGISTER

OFFICE OF THE REGISTRAR
ABORIGINAL LAND RIGHTS ACT 1983 (NSW)

Level 3, 2-10 Wentworth Street
Parramatta NSW 2124
02 8633 1266
PO Box 5068
Parramatta NSW 2124

Please print all details clearly using block letters

1. Contact details

Full name:	Alan Williams
Name of company:	EMM Consulting Pty Ltd
Postal address:	Ground Floor, 20 Chandos Street St Leonards NSW 2065
Email address:	awilliams@emmconsulting.com.au
Telephone number:	0438 104 740

2. Real Property Details (if more than one parcel please attach separate table)

Lot / Section / Deposited Plan:	Please see attached spreadsheet
Parish:	Colkmannan
County:	Urana

Attached is a copy of the current title search(es), please tick (✓): ☐

3. To assist our office in assigning priorities please provide:

a. The purpose for which information is required:

In accordance with Heritage NSW guidelines, we are seeking this information to inform an Aboriginal cultural heritage assessment

b. The reason for urgency (when urgent consideration is required):

Please note:

i. Searches will only be performed on Crown Land.
ii. In order to process a search we require a copy of a current title search for the relevant land.
iii. Subject to demand, searches are normally completed within 10 working days. Complex searches may take longer.
iv. If your search is urgent, please indicate why at point 3b above.
v. Please send the completed form together with current relevant title search(es) via email to: **ALC@oralra.nsw.gov.au**

4 Signature and date: 23 November 2022

Meg Ferrier

From: OEH HD Heritage Mailbox <HERITAGEMailbox@environment.nsw.gov.au>
Sent: Wednesday, 23 November 2022 8:20 AM
To: Alan Williams
Subject: Automated Response
Attachments: image003.png; image001.png

CAUTION: This email originated outside of the Organisation.

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 Section 170 notifications – state heritage/SHR items Section 170 registers and heritage asset management strategies	14 days 40 days 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

T (02 9873 8500 E Heritagemailbox@environment.nsw.gov.au
4 Parramatta Square, 12 Darcy St
Parramatta NSW 2150

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.

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Meg Ferrier

From: Alan Williams
Sent: Wednesday, 23 November 2022 8:20 AM
To: Alan Williams
Cc: Morgan Wilcox; David Richards
Subject: Dinawan Solar Farm - Aboriginal heritage - request for information
Attachments: E220305_AgencyRequest_Solar_v1.0.pdf

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA). Aboriginal consultation began on this project last year, however with the changing consultant and some delays in this process, we have opted to re-start the process. As such, and in accordance with Heritage NSW consultation guidelines, we request any information your organisation has available in relation to Aboriginal individuals and/or organisations that may be interested in being consulted on the project. Please find a letter with further information, including maps, etc, attached.

I also want to highlight that this project is one of two being undertaken concurrently – the other being an adjacent wind farm. Given they are both being assessed separately and potentially at different timeframes, we will also be providing a separate request for the solar farm shortly.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

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T 02 9493 9500
M 0438 104 740
D 02 9493 9584
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Meg Ferrier

From: Alan Williams
Sent: Wednesday, 23 November 2022 8:22 AM
To: Office of Registrar
Cc: Morgan Wilcox; David Richards
Subject: Dinawan Solar Farm - Aboriginal heritage - request for information
Attachments: LotDP.xlsx; E220305_ORALRA form.pdf

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA). Aboriginal consultation began on this project last year, however with the changing consultant and some delays in this process, we have opted to re-start the process. As such, and in accordance with Heritage NSW consultation guidelines, we request any information your organisation has available in relation to Aboriginal individuals and/or organisations that may be interested in being consulted on the project. Please find a search request and appended Lot and DPs attached.

I also want to highlight that this project is one of two being undertaken concurrently – the other being an adjacent wind farm. Given they are both being assessed separately and potentially at different timeframes, we will also be providing a separate request for the solar farm shortly.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

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Meg Ferrier

From: Alan Williams
Sent: Wednesday, 23 November 2022 8:23 AM
To: Geospatial Search Requests
Cc: Morgan Wilcox; David Richards
Subject: RE: Dinawan Solar Farm - Aboriginal heritage - request for information
Attachments: LotDP.xlsx; E220305 NNTT search request.docx

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA). Aboriginal consultation began on this project last year, however with the changing consultant and some delays in this process, we have opted to re-start the process. As such, and in accordance with Heritage NSW consultation guidelines, we request any information your organisation has available in relation to Aboriginal individuals and/or organisations that may be interested in being consulted on the project. Please find a search request and appended Lot and DPs attached.

I also want to highlight that this project is one of two being undertaken concurrently – the other being an adjacent wind farm. Given they are both being assessed separately and potentially at different timeframes, we will also be providing a separate request for the solar farm shortly.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

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From: Geospatial Search Requests
To: Alan Williams
Cc: Morgan Willcox; David Richards
Subject: RE: SR22/1864 - Dinawan Solar Farm - Aboriginal heritage - request for information - SR22/1864 [SEC=OFFICIAL]
Date: Thursday, 24 November 2022 1:22:33 PM
Attachments: image007.png
image008.png
image001.png
image004.jpg

CAUTION: This email originated outside of the Organisation.

OFFICIAL

Your ref: *E220118*

Dear Alan Williams,

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

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	Overlapping Native Title Feature				
1//DP113903	FREEHOLD	5/09/2022	0.3686	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP532988	FREEHOLD	5/09/2022	0.0554	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
10//DP113903	FREEHOLD	5/09/2022	0.0380	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
103//DP756444	FREEHOLD	5/09/2022	1.3122	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
104//DP756444	FREEHOLD	5/09/2022	1.0170	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
105//DP756444	FREEHOLD	5/09/2022	0.8566	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
106//DP756444	FREEHOLD	5/09/2022	0.7018	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
107//DP756444	FREEHOLD	5/09/2022	0.5588	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
108//DP756444	FREEHOLD	5/09/2022	0.4449	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
109//DP756444	FREEHOLD	5/09/2022	0.8824	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
110//DP756444	FREEHOLD	5/09/2022	0.7514	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
111//DP756444	FREEHOLD	5/09/2022	1.2950	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
112//DP756444	FREEHOLD	5/09/2022	1.3107	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
113//DP756444	FREEHOLD	5/09/2022	1.2958	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
114//DP756444	FREEHOLD	5/09/2022	1.1329	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
125//DP756444	FREEHOLD	5/09/2022	1.2965	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
133//DP756396	FREEHOLD	5/09/2022	1.3147	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
134//DP756396	FREEHOLD	5/09/2022	1.0042	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP1244278	FREEHOLD	5/09/2022	1.3233	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP532988	FREEHOLD	5/09/2022	0.0458	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
22A//DP756444	FREEHOLD	5/09/2022	0.5672	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
23//DP756444	FREEHOLD	5/09/2022	2.0016	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
24//DP756444	FREEHOLD	5/09/2022	1.2983	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
26//DP756444	FREEHOLD	5/09/2022	1.3150	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
27//DP756444	FREEHOLD	5/09/2022	1.2908	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
28//DP756444	FREEHOLD	5/09/2022	1.2859	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
29//DP756444	FREEHOLD	5/09/2022	1.3006	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP1244278	FREEHOLD	5/09/2022	0.3651	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP532988	FREEHOLD	5/09/2022	0.0010	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
30//DP756444	FREEHOLD	5/09/2022	1.3147	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
31//DP756444	FREEHOLD	5/09/2022	1.2983	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
32//DP756444	FREEHOLD	5/09/2022	1.3065	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
39//DP756396	FREEHOLD	5/09/2022	0.8708	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
4//DP532988	FREEHOLD	5/09/2022	0.0272	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
40//DP756396	FREEHOLD	5/09/2022	0.8858	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
41//DP756396	FREEHOLD	5/09/2022	1.0164	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
42//DP756396	FREEHOLD	5/09/2022	1.2613	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
43//DP756396	FREEHOLD	5/09/2022	1.3167	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
44//DP756396	FREEHOLD	5/09/2022	0.9264	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
44//DP756444	FREEHOLD	5/09/2022	1.2971	**NNTT File Number**	**Name**	**Category**	**Overlap Area**	**% Selected Feature**

							SqKm	
				No overlap			-	0.00%
45//DP756396	FREEHOLD	5/09/2022	1.0449	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
45//DP756444	FREEHOLD	5/09/2022	1.3187	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
46//DP756396	FREEHOLD	5/09/2022	0.7563	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
46//DP756444	FREEHOLD	5/09/2022	1.3050	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
47//DP756396	FREEHOLD	5/09/2022	0.8068	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
47//DP756444	FREEHOLD	5/09/2022	1.2716	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
48//DP756396	FREEHOLD	5/09/2022	0.8915	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
48//DP756444	FREEHOLD	5/09/2022	1.2913	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
49//DP756444	FREEHOLD	5/09/2022	1.2971	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
5//DP532988	FREEHOLD	5/09/2022	0.0269	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
5//DP594041	FREEHOLD	5/09/2022	1.0917	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
50//DP756396	FREEHOLD	5/09/2022	1.2436	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
51//DP756396	FREEHOLD	5/09/2022	1.3098	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
6//DP113903	FREEHOLD	5/09/2022	0.0278	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
6//DP532988	FREEHOLD	5/09/2022	0.0276	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
6//DP594041	FREEHOLD	5/09/2022	0.6230	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
7//DP113903	FREEHOLD	5/09/2022	0.3443	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
7//DP532988	FREEHOLD	5/09/2022	0.0021	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
7//DP594041	FREEHOLD	5/09/2022	0.1873	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
8//DP113903	FREEHOLD	5/09/2022	0.0141	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
8//DP532988	FREEHOLD	5/09/2022	0.0558	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
9//DP113903	FREEHOLD	5/09/2022	0.0300	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%

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
Email: GeospatialSearch@nntt.gov.au | **www.nntt.gov.au**

From: Alan Williams <awilliams@emmconsulting.com.au>
Sent: Wednesday, 23 November 2022 6:23 AM
To: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Cc: Morgan Wilcox <mwilcox@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>
Subject: SR22/1864 - RE: Dinawan Solar Farm - Aboriginal heritage - request for information

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

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA). Aboriginal consultation began on this project last year, however with the changing consultant and some delays in this process, we have opted to re-start the process. As such, and in accordance with Heritage NSW consultation guidelines, we request any information your organisation has available in relation to Aboriginal individuals and/or organisations that may be interested in being consulted on the project. Please find a search request and appended Lot and DPs attached.

I also want to highlight that this project is one of two being undertaken concurrently – the other being an adjacent wind farm. Given they are both being assessed separately and potentially at different timeframes, we will also be providing a separate request for the solar farm shortly.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

T 02 9493 9500
M 0438 104 740
D 02 9493 9584
Connect with us

SYDNEY | Ground floor, 20 Chandos Street, St Leonards NSW 2065

I work flexibly. I'm sending you this message now because it's a good time for me, but do not expect you to read, respond or action it outside your regular hours

Text Description automatically generated

Please consider the environment before printing my email.
This email and any files transmitted with it are confidential and are only to be read or used by the intended recipient as it may contain confidential information. Confidentiality or privilege is not waived or lost by erroneous transmission. If you have received this email in error, or are not the intended recipient, please notify the sender immediately and delete this email from your computer. You must not disclose, distribute, copy or use the information herein if you are not the intended recipient.

From:	Rachel Rewiri
To:	Alan Williams
Subject:	RE: Dinawan Wind Farm - Aboriginal heritage - request for information
Date:	Friday, 2 December 2022 3:07:01 PM
Attachments:	image001.png EMM CONSULTING - Kidman Way (Murrumbidgee LGA) Reply Letter.pdf

CAUTION: This email originated outside of the Organisation.

OFFICIAL

Dear Alan,

Please find attached the response from the Office of the Registrar, ALRA to your letter and email of 23 November 2022, regarding the proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA, New South Wales.

Kind Regards

Rachel Rewiri
Project Officer, Aboriginal Owners
Office of the Registrar, Aboriginal Land Rights Act 1983
Department of Premier and Cabinet
T (02) 8575 1133 **E** Rachel.rewiri3@oralra.nsw.gov.au
www.oralra.nsw.gov.au

PO Box 787
PARRAMATTA NSW 2124

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.

Please consider the environment before printing this email.

OFFICIAL

OFFICE OF THE REGISTRAR
ABORIGINAL LAND RIGHTS ACT 1983 (NSW)

02 December 2022

By email: awilliams@emmconsulting.com.au

Dr Alan Williams
Senior Heritage Consultant
EMM Consulting Pty Ltd
Ground Floor, 20 Chandos Street
ST LEONARDS NSW 2065

Dear Alan,

Request - Aboriginal Cultural Heritage Assessment – the proposed Dinawan wind farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA) NSW: Request for list of potential Aboriginal stakeholders

We refer to your email dated 23 November 2022 seeking the identification of Aboriginal organisations and people who may have an interest in the proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA, New South Wales).

Under Section 170 of the Aboriginal Land Rights Act 1983 the Office of the Registrar is required to maintain the Register of Aboriginal Owners (RAO). 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 appears to fall within the boundaries of Griffith Local Aboriginal Land Council. With the large number of Lots and DPs, it may also be immediately adjacent to Cummeragunja Local Aboriginal Land Council. We suggest you contact both Griffith and Cummeragunja LALCs (contact details provided below), to determine if they wish to participate or contribute

Yours sincerely

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

Griffith Local Aboriginal Land Council
PO Box PO Box 8043 EAST GRIFFITH NSW 2680 Ph: (02) 6962 6711
Email: grifflalc@bigpond.com

Cummeragunja Local Aboriginal Land Council
PO Box 99 MOAMA NSW 2731 Ph: 03 5869 3372
Email: CEO@cummeraLALC.com.au

Meg Ferrier

From: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Sent: Thursday, 24 November 2022 12:22 PM
To: Alan Williams
Cc: Morgan Wilcox; David Richards
Subject: RE: SR22/1864 - Dinawan Solar Farm - Aboriginal heritage - request for information - SR22/1864 [SEC=OFFICIAL]

CAUTION: This email originated outside of the Organisation.

OFFICIAL

Your ref: *E220118*

Dear Alan Williams,

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

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	Overlapping Native Title Feature				
				NNTT File Number	Name	Category	Overlap Area SqKm	% Selected
1//DP113903	FREEHOLD	5/09/2022	0.3686					

				No overlap			-	
1//DP532988	FREEHOLD	5/09/2022	0.0554	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
10//DP113903	FREEHOLD	5/09/2022	0.0380	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
103//DP756444	FREEHOLD	5/09/2022	1.3122	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
104//DP756444	FREEHOLD	5/09/2022	1.0170	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
105//DP756444	FREEHOLD	5/09/2022	0.8566	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
106//DP756444	FREEHOLD	5/09/2022	0.7018	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
107//DP756444	FREEHOLD	5/09/2022	0.5588	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
108//DP756444	FREEHOLD	5/09/2022	0.4449	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
109//DP756444	FREEHOLD	5/09/2022	0.8824	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
110//DP756444	FREEHOLD	5/09/2022	0.7514	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
111//DP756444	FREEHOLD	5/09/2022	1.2950	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
112//DP756444	FREEHOLD	5/09/2022	1.3107	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**

				No overlap			-	
113//DP756444	FREEHOLD	5/09/2022	1.2958	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
114//DP756444	FREEHOLD	5/09/2022	1.1329	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
125//DP756444	FREEHOLD	5/09/2022	1.2965	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
133//DP756396	FREEHOLD	5/09/2022	1.3147	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
134//DP756396	FREEHOLD	5/09/2022	1.0042	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
2//DP1244278	FREEHOLD	5/09/2022	1.3233	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
2//DP532988	FREEHOLD	5/09/2022	0.0458	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
22A//DP756444	FREEHOLD	5/09/2022	0.5672	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
23//DP756444	FREEHOLD	5/09/2022	2.0016	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
24//DP756444	FREEHOLD	5/09/2022	1.2983	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
26//DP756444	FREEHOLD	5/09/2022	1.3150	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
27//DP756444	FREEHOLD	5/09/2022	1.2908	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**

				No overlap			-	
28//DP756444	FREEHOLD	5/09/2022	1.2859	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
29//DP756444	FREEHOLD	5/09/2022	1.3006	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
3//DP1244278	FREEHOLD	5/09/2022	0.3651	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
3//DP532988	FREEHOLD	5/09/2022	0.0010	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
30//DP756444	FREEHOLD	5/09/2022	1.3147	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
31//DP756444	FREEHOLD	5/09/2022	1.2983	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
32//DP756444	FREEHOLD	5/09/2022	1.3065	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
39//DP756396	FREEHOLD	5/09/2022	0.8708	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
4//DP532988	FREEHOLD	5/09/2022	0.0272	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
40//DP756396	FREEHOLD	5/09/2022	0.8858	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
41//DP756396	FREEHOLD	5/09/2022	1.0164	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
42//DP756396	FREEHOLD	5/09/2022	1.2613	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**

				No overlap			-	
43//DP756396	FREEHOLD	5/09/2022	1.3167	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
44//DP756396	FREEHOLD	5/09/2022	0.9264	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
44//DP756444	FREEHOLD	5/09/2022	1.2971	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
45//DP756396	FREEHOLD	5/09/2022	1.0449	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
45//DP756444	FREEHOLD	5/09/2022	1.3187	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
46//DP756396	FREEHOLD	5/09/2022	0.7563	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
46//DP756444	FREEHOLD	5/09/2022	1.3050	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
47//DP756396	FREEHOLD	5/09/2022	0.8068	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
47//DP756444	FREEHOLD	5/09/2022	1.2716	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
48//DP756396	FREEHOLD	5/09/2022	0.8915	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
48//DP756444	FREEHOLD	5/09/2022	1.2913	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
49//DP756444	FREEHOLD	5/09/2022	1.2971	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**

				No overlap			-	
5//DP532988	FREEHOLD	5/09/2022	0.0269	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
5//DP594041	FREEHOLD	5/09/2022	1.0917	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
50//DP756396	FREEHOLD	5/09/2022	1.2436	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
51//DP756396	FREEHOLD	5/09/2022	1.3098	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
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6//DP113903	FREEHOLD	5/09/2022	0.0278	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
6//DP532988	FREEHOLD	5/09/2022	0.0276	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
6//DP594041	FREEHOLD	5/09/2022	0.6230	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
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				No overlap			-	
7//DP594041	FREEHOLD	5/09/2022	0.1873	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
8//DP113903	FREEHOLD	5/09/2022	0.0141	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	
8//DP532988	FREEHOLD	5/09/2022	0.0558	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**

				No overlap			-	
9//DP113903	FREEHOLD	5/09/2022	0.0300	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected**
				No overlap			-	

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
Email: GeospatialSearch@nntt.gov.au | **www.nntt.gov.au**

From: Alan Williams <awilliams@emmconsulting.com.au>
Sent: Wednesday, 23 November 2022 6:23 AM
To: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Cc: Morgan Wilcox <mwilcox@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>
Subject: SR22/1864 - RE: Dinawan Solar Farm - Aboriginal heritage - request for information

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

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA). Aboriginal consultation began on this project last year, however with the changing consultant and some delays in this process, we have opted to re-start the process. As such, and in accordance with Heritage NSW consultation guidelines, we request any information your organisation has available in relation to Aboriginal individuals and/or organisations that may be interested in being consulted on the project. Please find a search request and appended Lot and DPs attached.

I also want to highlight that this project is one of two being undertaken concurrently – the other being an adjacent wind farm. Given they are both being assessed separately and potentially at different timeframes, we will also be providing a separate request for the solar farm shortly.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

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M 0438 104 740
D 02 9493 9584
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Meg Ferrier

From: Rachel Rewiri <rachel.rewiri3@oralra.nsw.gov.au>
Sent: Friday, 2 December 2022 2:07 PM
To: Alan Williams
Subject: RE: Dinawan Wind Farm - Aboriginal heritage - request for information
Attachments: EMM CONSULTING - Kidman Way (Murrumbidgee LGA) Reply Letter.pdf

CAUTION: This email originated outside of the Organisation.

OFFICIAL

Dear Alan,

Please find attached the response from the Office of the Registrar, ALRA to your letter and email of 23 November 2022, regarding the proposed solar farm south of Coleambally, in the vicinity of Kidman Way (Murrumbidgee LGA, New South Wales.

Kind Regards

Rachel Rewiri
Project Officer, Aboriginal Owners
Office of the Registrar, Aboriginal Land Rights Act 1983
Department of Premier and Cabinet
T (02) 8575 1133 **E** Rachel.rewiri3@oralra.nsw.gov.au
www.oralra.nsw.gov.au

PO Box 787
PARRAMATTA NSW 2124

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.

Please consider the environment before printing this email.

OFFICIAL

Meg Ferrier

From: LLS Admin Murray Mailbox <admin.murray@lls.nsw.gov.au>
Sent: Wednesday, 23 November 2022 10:32 AM
To: Alan Williams
Cc: Morgan Wilcox; David Richards
Subject: RE: Dinawan Solar Farm - Aboriginal heritage - request for information

CAUTION: This email originated outside of the Organisation.

Good morning

We have received your request for contact details of local First Nations People who may have an interest in your study area.

Due to privacy restrictions around sharing of personal information, we cannot provide contact details for any individuals in our region, however the contact details for Local Aboriginal Land Councils are available on https://alc.org.au/.

We have forwarded your request on to key First Nations contacts within our region, including members of the Murray LLS Aboriginal Community Advisory Committee.

Kind Regards

Linda Stevens
Customer Service & Admin Support Officer
DRNSW Local Land Services Agency | Murray
Local Land Services

P 260512200 **E** linda.k.stevens@lls.nsw.gov.au

regional.nsw.gov.au

931 GARLAND AVE, PO BOX 797
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Working Hours: MON-FRI 8.30-4.30

Local Land Services

How would you rate my service today?

Your opinion is valuable and will help us improve our service

Stay up-to-date with advice, information, events and project updates from Murray Local Land Services by signing up to our e-newsletters and/or liking us on Facebook.

From: Alan Williams <awilliams@emmconsulting.com.au>
Sent: Wednesday, 23 November 2022 9:20 AM
To: Alan Williams <awilliams@emmconsulting.com.au>
Cc: Morgan Wilcox <mwilcox@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>
Subject: Dinawan Solar Farm - Aboriginal heritage - request for information

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I also want to highlight that this project is one of two being undertaken concurrently – the other being an adjacent wind farm. Given they are both being assessed separately and potentially at different timeframes, we will also be providing a separate request for the solar farm shortly.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

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M 0438 104 740
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From: LLS Admin Murray Mailbox
To: Alan Williams
Cc: Morgan Wilcox; David Richards
Subject: RE: Dinawan Solar Farm - Aboriginal heritage - request for information
Date: Wednesday, 23 November 2022 11:33:03 AM
Attachments: image007.png
image008.png
image009.png
image010.png
image013.png
image014.png
image001.png
image002.png

CAUTION: This email originated outside of the Organisation.

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Kind Regards
Linda Stevens
Customer Service & Admin Support Officer
DRNSW Local Land Services Agency | Murray
Local Land Services

P 260512200 **E** linda.k.stevens@lls.nsw.gov.au

regional.nsw.gov.au

931 GARLAND AVE, PO BOX 797
ALBURY NSW 2640

Working Hours: MON-FRI 8.30-4.30

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To: Alan Williams <awilliams@emmconsulting.com.au>
Cc: Morgan Wilcox <mwilcox@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>
Subject: Dinawan Solar Farm - Aboriginal heritage - request for information

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Thanks
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Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

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M 0438 104 740
D 02 9493 9584
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Return Thanks

Del Blowes

Thank you to the drs, nursers and staff at Wagga Base Hospital, 5th floor Surgical and 4th floor Gem.
The Wagga Fijian fellowship for conducting the celebration of Del's life.
Family and friends for your loving messages and floral tributes.
Rest in Peace Del
Laurie Blowes ♥

Garage Sales

☐ VISIT ☐ VISITED

GOBBAGOMBALIN, 12 Goonawarra Street. Sat + Sun, 9am - 4pm both days. Tools, generator, welder, grinder, chainsaw, caravan and fishing gear house hold items + much more.

☐ VISIT ☐ VISITED

SAN ISIDORE, 20 Benedict Ave. Sat & Sun 8am - 4.30 pm. Large sale, heaps of books, tins, hardware, toys, more. 0429 446 878.

Garage Sales

☐ VISIT ☐ VISITED

WAGGA WAGGA 12 Gossett Wagga, 8am to Sat &Sun. Worth a look. New tread mill, exercise gear, golf clubs & buggy clothes ,jewellery vintage cutlery. Bric abrac

☐ VISIT ☐ VISITED

WAGGA 6 Norman St, rear of house, Sat 10 Dec, from 12 noon - 4pm. Fishing gear, equipment lots, treadmill, gas heater, misc items.

Motor Vehicles

FOR SALE
2013 Holden Ute
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EXPRESSIONS OF INTEREST
BUILDING CONSTRUCTION
HEAD CONTRACTOR
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Interested parties are invited to register their interest via tenders.net #1332425
By 1pm 16th December 2022.

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Nominations are now being accepted!

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Categories include:
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Open to Junee residents aged between 13-25 years ONLY

Better Corrections Safer Communities

NOMINATIONS CLOSE:
Sunday 8th January 2023

RM6942782

For information about the scholarships, including how to nominate, please go to the following link:
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Invitation for Registrations of Interest

Aboriginal Cultural Heritage Assessment

Dinawan Wind Farm, Kidman Way, near Coleambally, Murrumbidgee and Edward River LGA

Spark Renewables Pty Limited is proposing the development of the Dinawan Wind Farm, which includes installation, operation, maintenance and decommissioning of up to approximately 250 wind turbine generators (WTGs), as well as a battery energy storage system (BESS) and associated infrastructure. The project will be located about halfway between the towns of Coleambally and Jerilderie, west of Kidman Way and mostly south of Four Corners Road, and lies within the Murrumbidgee and Edward River local government area (LGA) (see below figure).

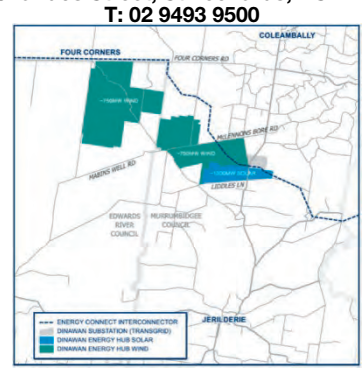
The proponent contact is: Julian Kasby, Senior Development Manager, Spark Renewables, T: 0411 638651, E: julian.kasby@sparkrenewables.com, A: 4/1A Rialto Lane, Manly, NSW 2095.

EMM, on behalf of Spark Renewables, invites Aboriginal individuals and organisations who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the area, and who wish to be involved in the consultation process undertaken as part of the assessment to register their interests.

The purpose of Aboriginal community consultation is to assist Spark Renewables in: 1) assessing the Aboriginal heritage values of the area; 2) to assist NSW Government in the assessment of Aboriginal heritage reports prepared for this project; and 3) to support any future applications or approvals for the project sought under the NSW Environmental Planning and Assessment Act 1979 and/or the NSW National Parks and Wildlife Act 1974.

Registrations of interest are to be provided by no later than 1 January 2023 to;

Alan Williams
E: awilliams@emmconsulting.com.au.
EMM Consulting Pty Ltd
20 Chandos Street, St Leonards, NSW 2065
T: 02 9493 9500



Public Notices

Invitation for Registrations of Interest

Aboriginal Cultural Heritage Assessment

Dinawan Solar Farm, Kidman Way, near Coleambally, Murrumbidgee LGA

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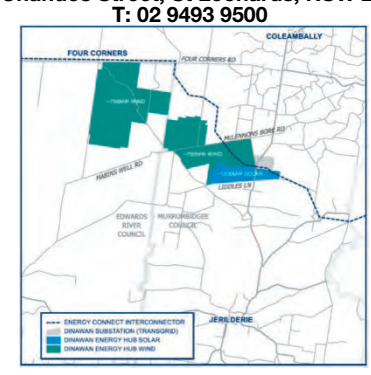

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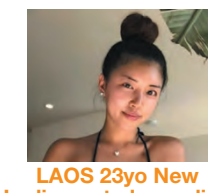

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TRANSGENDER TIFFANY Busty, Thai, Lovely, New in town
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Temporary Office Closure

Due to an upcoming office relocation, our Peter Street office will be closing effective Friday December 2nd, 5pm.

You can still reach us via phone and email

Exciting new office announcement coming soon!

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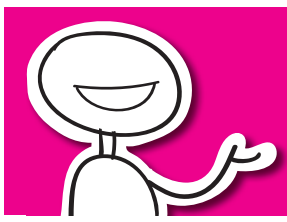

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Invitation for Registrations of Interest
Aboriginal Cultural Heritage Assessment

Dinawan Solar Farm, Kidman Way, near Coleambally, Murrumbidgee LGA

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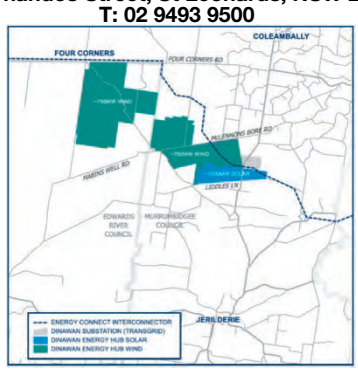

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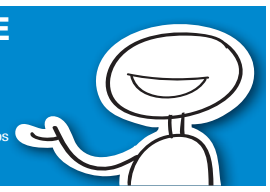

Tenders

Meridian Construction Services are the successful bidders for the internal refurbishment to Griffith Ex Servicemen's Club and invite all local subcontractors and suppliers to register interest in working on the project which will start early 2023.

Please send all enquiries to Olivier Cerise - omc@meridianconst.com.au
Phone: 0438 233 001

RM6941306

Positions Vacant

TAFE NSW
NSW GOVERNMENT

Teachers of Disability and Aged Care

TAFE NSW currently has multiple opportunities for experienced candidates to join our Health, Wellbeing and Community Services Skills teams in the Riverina region. Sharing your passion for your industry you will play a vital role in providing education to rural and regional NSW.

We have 4 full time ongoing roles available in Aged Care, and 1 in Disability – with multiple campus locations available to work from, this is an opportunity not to be missed!

Applications Close: Monday 9 January 2023 at 11.59pm

For more details and how to apply for the role/s, please visit **iworkfor.nsw.gov.au**

- **Teachers Aged Care:** Job Reference Number 00009B6C
- **Teacher Disability:** Job Reference Number 00009B6F

LP0274

Positions Vacant

Accountant

This is a great opportunity for a qualified Accountant to work for local government.For a more detailed advertisement and to apply please visit our website: www.leeton.nsw.gov.au

LEETON SHIRE COUNCIL

Business Support Officer – Operations

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For a more detailed advertisement and to apply please visit our website: www.leeton.nsw.gov.au

LEETON SHIRE COUNCIL

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The Area News

Merry Christmas & Happy Holidays!

The Area News will not be published on
26, 28 & 30 December 2022 or 2, 4 & 6 January 2023

We appreciate your support and readership in 2022 and look forward to an exciting 2023.

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The Area News

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General Notices

Catholic Education
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EXPRESSIONS OF INTEREST
BUILDING CONSTRUCTION
HEAD CONTRACTOR
St Francis De Sales College, LEETON NSW

Construction of New Stadium with stage area and performing arts, Admin Building and Refurbishment works throughout site.

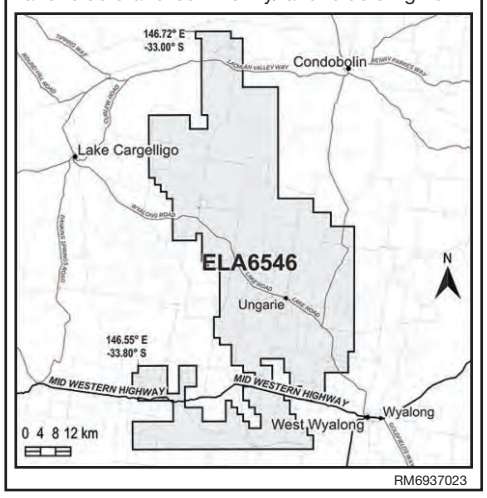
Interested parties are invited to register their interest via tenders.net #1332425
By 1pm 16th December 2022.

akps
Invested in the best outcome.

Mining Notices

EXPLORATION LICENCE APPLICATION

Notice is given in accordance with Section 13A of the Mining Act 1992 and Clause 15 of the Mining Regulation 2016 that exploration licence application 6546 (Act 1992) for Group 1 (Metallic Minerals) has been lodged with the Department of Regional NSW by Jamieson Minerals Pty Ltd ACN 165 056 333, over an area of 1190 units (about 3570 square kilometres) which is located approximately 51 km NW of West Wyalong, as shown on the diagram below. Information regarding this application can be obtained from Tanya Badenhorst, Australian Mining & Exploration Title Services, phone number 0436 033 192. Information about landholder's rights is available on the Department's website: http://www.resourcesandgeoscience.nsw.gov.au/landholders-and-community/landholders-rights



RM6937023

Public Notices

Invitation for Registrations of Interest

Aboriginal Cultural Heritage Assessment

Dinawan Wind Farm, Kidman Way, near Coleambally, Murrumbidgee and Edward River LGA

Spark Renewables Pty Limited is proposing the development of the Dinawan Wind Farm, which includes installation, operation, maintenance and decommissioning of up to approximately 250 wind turbine generators (WTGs), as well as a battery energy storage system (BESS) and associated infrastructure. The project will be located about halfway between the towns of Coleambally and Jerilderie, west of Kidman Way and mostly south of Four Corners Road, and lies within the Murrumbidgee and Edward River local government area (LGA) (see below figure).

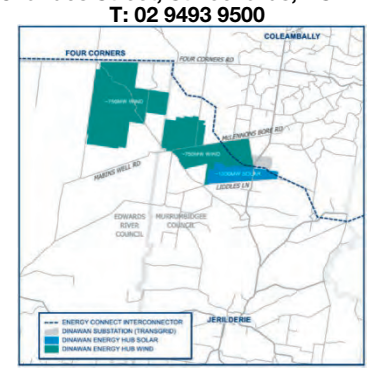
The proponent contact is: Julian Kasby, Senior Development Manager, Spark Renewables, T: 0411 638651, E: julian.kasby@sparkrenewables.com, A: 4/1A Rialto Lane, Manly, NSW 2095.

EMM, on behalf of Spark Renewables, invites Aboriginal individuals and organisations who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the area, and who wish to be involved in the consultation process undertaken as part of the assessment to register their interests.

The purpose of Aboriginal community consultation is to assist Spark Renewables in: 1) assessing the Aboriginal heritage values of the area; 2) to assist NSW Government in the assessment of Aboriginal heritage reports prepared for this project; and 3) to support any future applications or approvals for the project sought under the NSW Environmental Planning and Assessment Act 1979 and/or the NSW National Parks and Wildlife Act 1974.

Registrations of interest are to be provided by no later than 1 January 2023 to;

Alan Williams
E: awilliams@emmconsulting.com.au.
EMM Consulting Pty Ltd
20 Chandos Street, St Leonards, NSW 2065
T: 02 9493 9500



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Invitation for Registrations of Interest
Aboriginal Cultural Heritage Assessment
Dinawan Solar Farm, Kidman Way, near Coleambally, Murrumbidgee LGA

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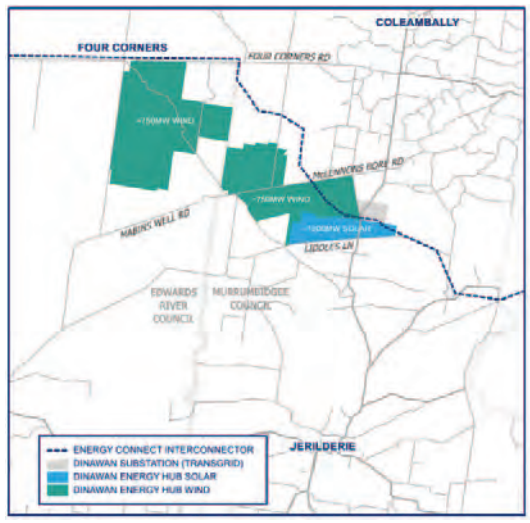

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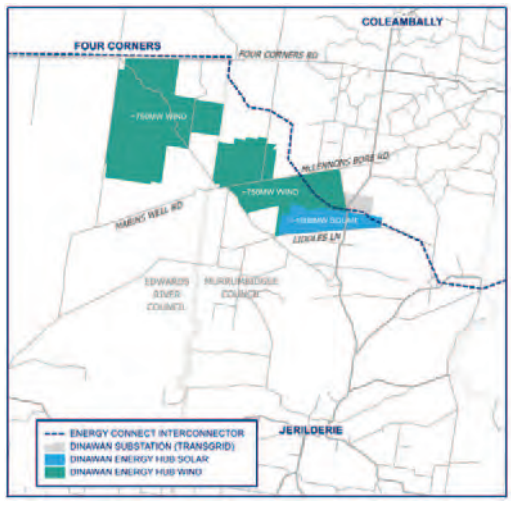

PUBLIC NOTICES

Narrandera Shire Council

APPLICATION FOR FINANCIAL ASSISTANCE FOR THE 2023/2024 FINANCIAL YEAR

Council is currently seeking applications from community organisations who may wish to apply for financial assistance for specific projects for the 2023/2024 financial year.

Only those applications submitted using Council's 'Application for Financial Assistance' form will be considered and all applications must acknowledge an understanding of Policy POL008 Financial Assistance Program Policy.

Applications must be received by Council by 4pm Friday 10 February 2022.

For further information or to obtain a copy of the 'Application for Financial Assistance' form and a copy of Policy POL008 Financial Assistance Program Policy, please contact Council on 6959 5510 or email council@narrandera.nsw.gov.au or alternatively view Council's website www.narrandera.nsw.gov.au. Or Council's social media platforms.

George Cowan
General Manager

PUBLIC NOTICE

PUBLIC NOTICES

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Meg Ferrier

From: Coral Knight <coral.knight@localclassies.com.au>
Sent: Monday, 12 December 2022 10:51 AM
To: Alan Williams
Subject: localclassies-Proof of Adverts
Attachments: 63617.pdf; 63618.pdf

CAUTION: This email originated outside of the Organisation.

Hi Alan
Sorry for the delay

Please find attached a proof of your advertisement in the **Public Notices** classification for the following publications

Southern Riverina News
Wednesday, Dec 14

Proof: 63617
Size: 2cols (6.3cms wide) x 26cms (deep)
Costing: $533 inc GST each

Proof: 63618
Size: 2cols (6.3cms wide) x 24cms (deep)
Costing: $492 inc GST each

Please confirm proof prior to 5pm today, Mnday, Dec 12

Please note we require pre-payment prior to publication.

For your convenience we accept Visa and MasterCard which we can take details over the phone.

The accuracy of the notice/s is the advertiser's responsibility. ***Please check your proof thoroughly.***
If no alterations are advised by the deadline shown above, the notice/s will appear in print as shown.

Kind regards,
Coral Knight
Classified Advertising Sales Consultant

Direct: (03) 5820 3130 **Phone:** 1300 660 886 **Fax:** 1300 714 453

From: Advertise Local Classies <classie.advertise@localclassies.com.au>
Sent: Wednesday, 7 December 2022 4:44 PM
To: awilliams@emmconsulting.com.au
Cc: Coral Knight <coral.knight@localclassies.com.au>
Subject: Fw: Southern Riverina News - Contact Us Form

Thank you for emailing localclassies. Your email has been received and forwarded to a

Classified Advertising Consultant, who will be in contact with you at their earliest convenience.

Feel free to contact the Classified Advertising Consultant on their direct email, cc'd above.

Kind regards,

From: Alan Williams <awilliams@emmconsulting.com.au>
Sent: Wednesday, 7 December 2022 4:14 PM
To: Advertise Local Classies <classie.advertise@localclassies.com.au>
Subject: RE: Southern Riverina News - Contact Us Form

Thanks Carol,

Please find the two adverts attached. I will need to make a small change (highlighted) once I know the dates you publish.

A

Dr Alan Williams FSA FRSA MAACAI
Associate Director | Technical Lead, Aboriginal Heritage
T 02 9493 9584
M 0438 104 740
[www.emmconsulting.com.au]www.emmconsulting.com.au

I work flexibly. I'm sending you this message now because it's a good time for me, but do not expect you to read, respond or action it outside your regular hours

---

From: Advertise Local Classies <classie.advertise@localclassies.com.au>
Sent: Wednesday, 7 December 2022 3:53 PM
To: Alan Williams <awilliams@emmconsulting.com.au>
Subject: Re: Southern Riverina News - Contact Us Form

CAUTION: This email originated outside of the Organisation.

Hi Alan,

Thank you for contacting Local Classifieds.

Please forward the information you wish to place in your advertisement directly to this email address.

I will be in contact with you promptly with the best solution for your enquiry.

Kind regards

Coral Knight

Classified Advertising Sales Consultant

Direct: (03) 5820 3130 **Phone:** 1300 660 886 **Fax:** 1300 714 453

Thank you for emailing localclassies. Your email has been received and forwarded to a

Classified Advertising Consultant, who will be in contact with you at their earliest convenience.

Feel free to contact the Classified Advertising Consultant on their direct email, cc'd above.

Kind regards,

From: forms@mmgmail.com.au <forms@mmgmail.com.au> on behalf of IT Systems <forms@mmgmail.com.au>
Sent: Wednesday, 7 December 2022 3:39 PM
To: Advertise@LocalClassies <advertise@localclassies.com.au>
Subject: Southern Riverina News - Contact Us Form

From: Alan Williams

Email: awilliams@emmconsulting.com.au

Contact Number: 0438104740

Message: Dear Sir/Madam

I would like to put two adverts in your classified sections, could someone please provide me with an email to submit these, and your day/date of publication.

Thanks
Al

Ground floor 20 Chandos Street
St Leonards NSW 2065
PO Box 21
St Leonards NSW 1590
02 9493 9500
www.emmconsulting.com.au

9 December 2022

Re: Dinawan Energy Hub (Solar Farm) - Aboriginal cultural heritage assessment - notification

Dear Sir/Madam,

Spark Renewables Pty Limited (Spark Renewables) is proposing the development of the Dinawan Solar Farm, a large-scale solar photovoltaic (PV) generation facility and battery energy storage system (BESS), supported by associated infrastructure (the project). The project will be located about halfway between the towns of Coleambally and Jerilderie and lies within the Murrumbidgee local government area (LGA) (**Error! Reference source not found.**). EMM Consulting Pty Limited (EMM) is undertaking an Aboriginal Cultural Heritage Assessment (ACHA) to identify the presence of any Aboriginal heritage values and to avoid, minimise, mitigate and/or manage impacts to Aboriginal heritage resulting from the project.

The project investigation area is divided into two distinct sections, one to the west of Kidman Way and one to the east (Table 1; Figure 1.1). Kidman Way is a regional road linking the Newell Highway (approximately 19 km south of the project investigation area) with the Sturt, Mid-Western, Barrier, Mitchell and Kamilaroi highways.

The project comprises a large-scale solar PV generation facility and BESS, supported by associated infrastructure. The project investigation area is approximately 4,500 hectares (ha). Within the project investigation area, the development footprint is expected to be around 2,500 ha. The final layout and capacity of the project will be selected on the basis of environmental constraints identification, outcomes of stakeholder engagement, engineering assessments and design of project infrastructure.

The proponent contact is: Julian Kasby, Senior Development Manager, Spark Renewables, T: 0411 638 651, E: julian.kasby@sparkrenewables.com, A: 4/1A Rialto Lane, Manly, NSW 2095.

This project is being undertaken in accordance with NSW State government's *Aboriginal cultural heritage consultation requirements for proponents 2010*. As per the first stage of the NSW State government consultation guidelines, I am writing to notify you of the project and seeking you and/or your organisation's interest in being registered for subsequent consultation and involvement. We are interested in Aboriginal individuals and/or organisations who may hold relevant cultural knowledge for determining the Aboriginal cultural heritage of the area, and who wish to be involved in the project.

The purpose of consultation is to assist Spark Renewables to:

1. Assess the Aboriginal heritage values of the area.

2. Assist NSW Government in the assessment of Aboriginal heritage reports prepared for this project.

3. Support any future applications or approvals for the project sought under NSW *Environmental Planning and Assessment Act 1979* and/or NSW *National Parks and Wildlife Act 1974*.

If you wish to register your interest as an Aboriginal party in subsequent consultation, please contact Alan Williams at the below details by **1 January 2023**.

Alan Williams
E: awilliams@emmconsulting.com.au
T: 02 9493 9500
EMM Consulting Pty Ltd
20 Chandos Street, St Leonards, NSW 2065

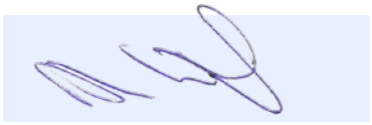
In your response, please provide the following information:

- clear identification of the individual and/or organisation registering an interest. Please ensure all contact details and personal, along with relevant phone, address and email (if available) is provided;
- preferred communication method (eg email) during the consultation of this project, along with your organisation's nominated contact person and their details;
- the level of project involvement you or your organisation wishes, including attendance of meetings, fieldwork participation and/or simply reviewing documentation;
- identification of any procedures, protocols or requirements for the use and reproduction of any cultural information or materials you or your organisation provides EMM as part of this project; and
- identification of any Aboriginal objects, sites and/or areas of cultural value that you are aware of in, or near, the project investigation area.

As required by the consultation guidelines, details of people registering as Aboriginal Parties will be forwarded to Heritage NSW and the relevant Local Aboriginal Land Council unless you specify otherwise in your response.

If you have any questions or enquiries, please don't hesitate to contact us.

Yours sincerely



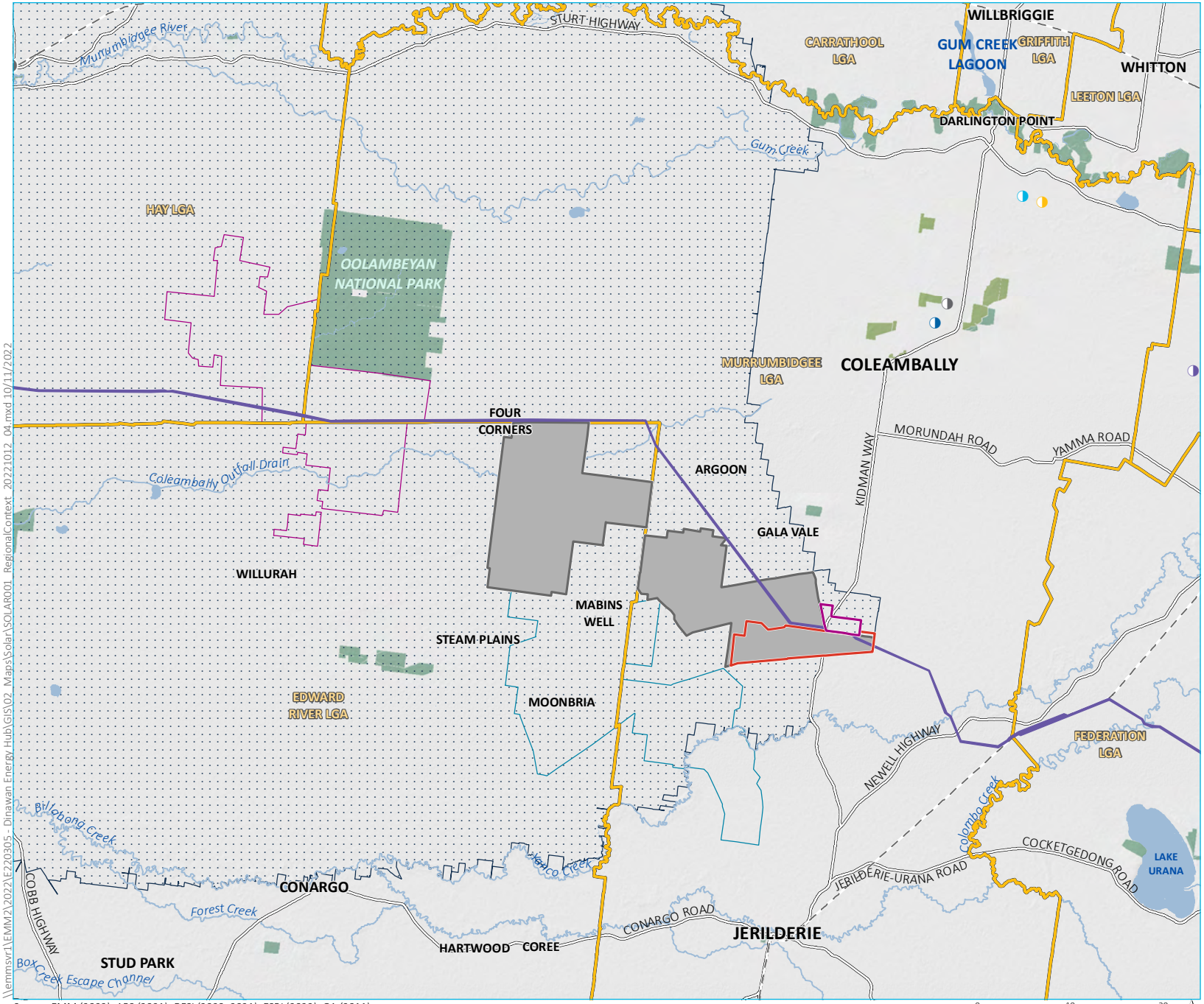
Dr Alan Williams FRSA FSA MAACAI
Technical Lead, Aboriginal Heritage
awilliams@emmconsulting.com.au

Table 1 Cadastral lots within project investigation area

Lot	DP
8	532988
49	756444
48	756444
47	756444
46	756444
29	756444
28	756444
27	756444
103	756444
104	756444
105	756444
106	756444
107	756444
108	756444
26	756444
24	756444
32	756444
31	756444
30	756444
45	756444
44	756444
44	756396
10	113903
41	756396
39	756396
7	113903
110	756444
125	756444
22A	756444
111	756444
112	756444

Table 1 Cadastral lots within project investigation area

Lot	DP
109	756444
23	756444
5	594041
133	756396
113	756444
114	756444
134	756396
40	756396
1	532988
2	532988
8	113903
3	532988
4	532988
5	532988
6	532988
6	113903
7	532988
9	113903
6	594041
43	756396
1	113903
7	594041
42	756396
45	756396
46	756396
47	756396
48	756396
50	756396
51	756396
2	1244278
3	1244278



\\emmsvr1\EMM2\2022\E220305 - Dinawan Energy Hub\GIS\02 Maps\Solar\SOLAR001 RegionalContext 20221012 04.mxd 10/11/2022

Source: EMM (2022); ABS (2021); DFSI (2020, 2021); ESRI (2022); GA (2011)

Regional context

Dinawan Solar Farm
Scoping Report
Figure 1.1

EMM
creating opportunities

Ground floor 20 Chandos Street
St Leonards NSW 2065
PO Box 21
St Leonards NSW 1590
02 9493 9500
www.emmconsulting.com.au

9 December 2022

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Alan Williams
E: awilliams@emmconsulting.com.au
T: 02 9493 9500
EMM Consulting Pty Ltd
20 Chandos Street, St Leonards, NSW 2065

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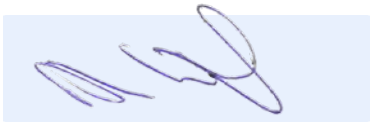

Dr Alan Williams FRSA FSA MAACAI
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105	756444
106	756444
107	756444
108	756444
26	756444
24	756444
32	756444
31	756444
30	756444
45	756444
44	756444
44	756396
10	113903
41	756396
39	756396
7	113903
110	756444
125	756444
22A	756444
111	756444
112	756444

Table 1 Cadastral lots within project investigation area

Lot	DP
109	756444
23	756444
5	594041
133	756396
113	756444
114	756444
134	756396
40	756396
1	532988
2	532988
8	113903
3	532988
4	532988
5	532988
6	532988
6	113903
7	532988
9	113903
6	594041
43	756396
1	113903
7	594041
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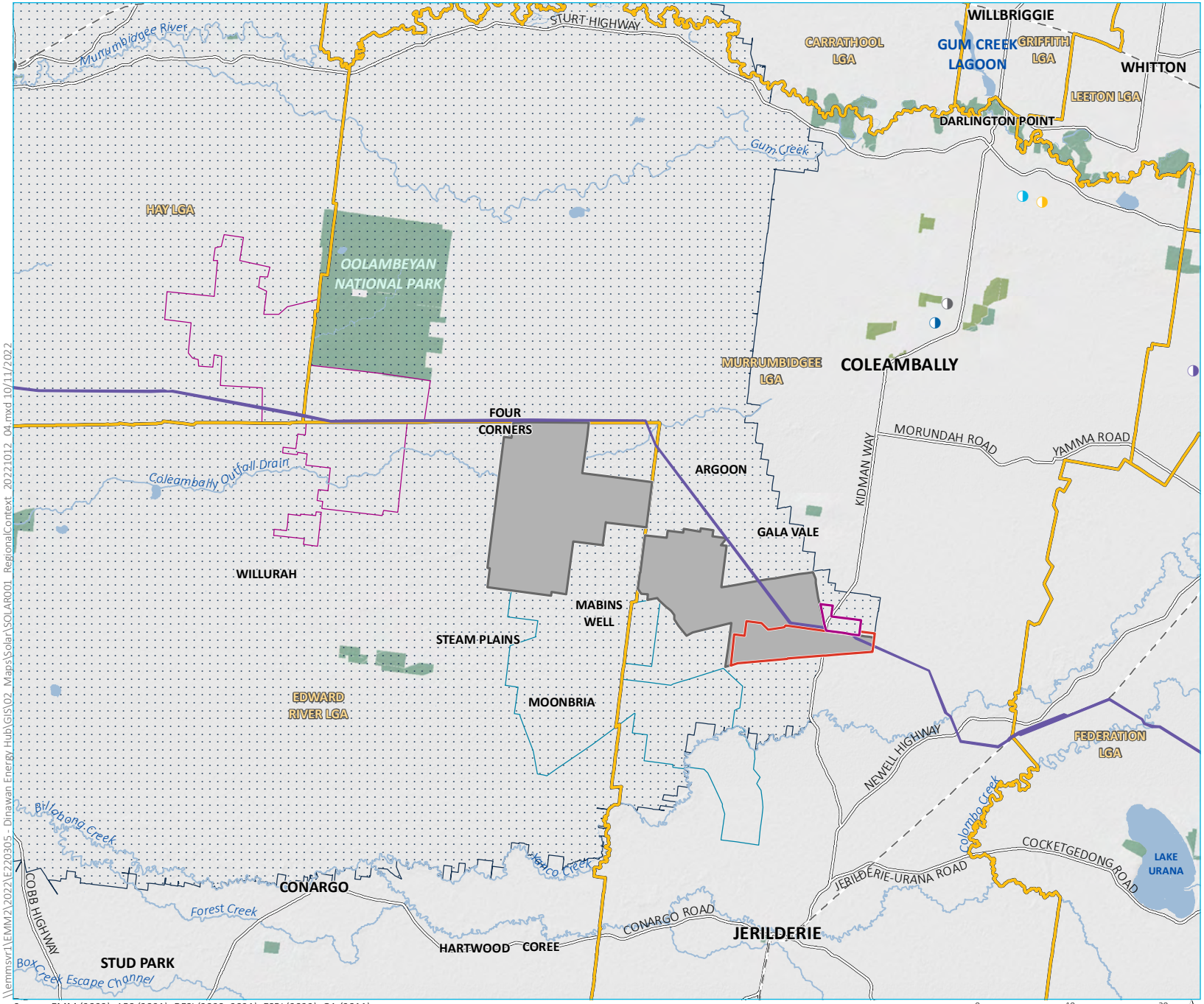
51	756396
2	1244278
3	1244278



\\emmsvr1\EMM2\2022\E220305 - Dinawan Energy Hub\GIS\02 Maps\Solar\SOLAR001 RegionalContext 20221012 04.mxd 10/11/2022

Source: EMM (2022); ABS (2021); DFSI (2020, 2021); ESRI (2022); GA (2011)

Regional context

Dinawan Solar Farm
Scoping Report
Figure 1.1

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Meg Ferrier

From: Alan Williams
Sent: Friday, 9 December 2022 10:51 AM
To: Alan Williams
Cc: Morgan Wilcox; David Richards
Subject: Dinawan SOLAR Farm - Aboriginal cultural heritage assessment - notification of project
Attachments: E220305_NotificationLetter_Solar_v1.pdf

Dear All,

Spark Renewables Pty Limited is proposing to develop a solar farm west of Coleambally, NSW. EMM Consulting Pty Limited is assisting with the broader Environmental Impact Statement (EIS) process, and as part of this undertaking an Aboriginal cultural heritage assessment (ACHA) in accordance with Heritage NSW guidelines. Please find attached a letter providing more information on the project and seeking your interest in being consulted on the project.

I want to highlight a couple of points:

1. Spark Renewables are also proposing the development of a wind farm in close proximity to the solar farm. However, while the wind and solar farms are both near each other and both proposed for development by the same proponent, they are being assessed separately and may ultimately run on different timeframes. As such, we are going to be undertaking two ACHAs, one for each of the projects and running them independently, albeit acknowledging that there will be a lot of crossover. For this reason, a second email seeking your interest in the wind farm will be provided shortly. Please ensure in any response you identify whether your wish to be involved in one or both of the projects.

2. Some initial Aboriginal consultation for this project was undertaken late 2021/early 2022 by another consultant. Given the delays since this process and change to EMM, we are asking that those that have previously registered in the project, please do so again here if you wish to remain involved. This will just ensure we have all the relevant personnel, contact information, etc, from everyone going forward. We apologise for the inconvenience that this may cause.

If you wish to be involved, could you get back to me by the 1 January 2023. Once we identified those interested, we'll touch based in mid-January 2023 when everyone is back from the holidays to discuss next steps.

Happy to discuss

Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

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T 02 9493 9500
M 0438 104 740
D 02 9493 9584
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Meg Ferrier

From: Morgan Wilcox
Sent: Tuesday, 24 January 2023 10:51 AM
To: HERITAGEMailbox@environment.nsw.gov.au; grifflalc@bigpond.com; CEO@CummeraLALC.com.au
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 1 Consultation
Attachments: E220305_NotificationLetter_Solar_V1.0_Final.pdf; Tearsheet_NarranderaArgus_WindFarm_SolarFarm_151222.pdf; Tearsheet_WeekendAdvertiser_WindFarm_SolarFarm_053-10_12_2022.pdf; Tearsheet_AreaNews_SolarFarm_20-09_12_2022.pdf

Dear Heritage NSW, Griffith LALC, Cummeragunja LALC,

EMM Consulting Pty Limited on behalf of Spark Renewables is undertaking an Aboriginal cultural heritage assessment of the proposed Dinawan Energy Hub (the project). The project comprises of two separate development applications: a solar farm; and a wind farm. Separate (but concurrent) consultation processes per development application are being undertaken in accordance with Heritage NSW consultation guidelines.

The attached documents (listed below) relate to the **proposed solar farm** and are provided as per item 4.1.6 of the consultation guidelines:

- Example notification letter sent to Aboriginal parties; and
- Newspaper adverts which appeared in the Narrandera Argus, The Area News and Weekend Advertiser.

Aboriginal people/organisations who have registered to be consulted for the project (solar farm) are listed below:

- Griffith Local Aboriginal Lands Council (Stephen Young)
- Yarkuwa Indigenous Knowledge Centre (David Crew)
- Bundyi Aboriginal Cultural Knowledge and Tours (Mark Saddler)
- Bangarang Aboriginal Corporation (Kim and Kevin Atkinson)
- Roley Williams
- Bidya Marra Consultancy (James Ingram and the following affiliated individuals Bruce Crowe, Jason Crowe, Joel Crowe, Mitchell Crowe, Brandon Crowe, and Robert Penngelly)

Kind regards,

Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division

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T 02 4907 4800
M 0436 443 205
D 02 4907 4821
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From:	Morgan Wilcox
To:	HERITAGEMailbox@environment.nsw.gov.au; grifflalc@bigpond.com; CEO@CummeraLALC.com.au
Cc:	Alan Williams
Subject:	Dinawan Energy Hub Project - Solar Farm - Stage 1 Consultation
Date:	Tuesday, 24 January 2023 11:50:00 AM
Attachments:	E220305_NotificationLetter_Solar_V1.0_Final.pdf image001.png image002.png image003.png Tearsheet_NarranderaArgus_WindFarm_SolarFarm_151222.pdf Tearsheet_WeekendAdvertiser_WindFarm_SolarFarm_053-10_12_2022.pdf Tearsheet_AreaNews_SolarFarm_20-09_12_2022.pdf

---

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- Bundyi Aboriginal Cultural Knowledge and Tours (Mark Saddler)
- Bangarang Aboriginal Corporation (Kim and Kevin Atkinson)
- Roley Williams
- Bidya Marra Consultancy (James Ingram and the following affiliated individuals Bruce Crowe, Jason Crowe, Joel Crowe, Mitchell Crowe, Brandon Crowe, and Robert Penngelly)

Kind regards,
Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division
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Ground floor 20 Chandos Street
St Leonards NSW 2065
PO Box 21
St Leonards NSW 1590
02 9493 9500
www.emmconsulting.com.au

9 December 2022

Re: Dinawan Energy Hub (Solar Farm) - Aboriginal cultural heritage assessment - notification

Dear Sir/Madam,

Spark Renewables Pty Limited (Spark Renewables) is proposing the development of the Dinawan Solar Farm, a large-scale solar photovoltaic (PV) generation facility and battery energy storage system (BESS), supported by associated infrastructure (the project). The project will be located about halfway between the towns of Coleambally and Jerilderie and lies within the Murrumbidgee local government area (LGA) (**Error! Reference source not found.**). EMM Consulting Pty Limited (EMM) is undertaking an Aboriginal Cultural Heritage Assessment (ACHA) to identify the presence of any Aboriginal heritage values and to avoid, minimise, mitigate and/or manage impacts to Aboriginal heritage resulting from the project.

The project investigation area is divided into two distinct sections, one to the west of Kidman Way and one to the east (Table 1; Figure 1.1). Kidman Way is a regional road linking the Newell Highway (approximately 19 km south of the project investigation area) with the Sturt, Mid-Western, Barrier, Mitchell and Kamilaroi highways.

The project comprises a large-scale solar PV generation facility and BESS, supported by associated infrastructure. The project investigation area is approximately 4,500 hectares (ha). Within the project investigation area, the development footprint is expected to be around 2,500 ha. The final layout and capacity of the project will be selected on the basis of environmental constraints identification, outcomes of stakeholder engagement, engineering assessments and design of project infrastructure.

The proponent contact is: Julian Kasby, Senior Development Manager, Spark Renewables, T: 0411 638 651, E: julian.kasby@sparkrenewables.com, A: 4/1A Rialto Lane, Manly, NSW 2095.

This project is being undertaken in accordance with NSW State government's *Aboriginal cultural heritage consultation requirements for proponents 2010*. As per the first stage of the NSW State government consultation guidelines, I am writing to notify you of the project and seeking you and/or your organisation's interest in being registered for subsequent consultation and involvement. We are interested in Aboriginal individuals and/or organisations who may hold relevant cultural knowledge for determining the Aboriginal cultural heritage of the area, and who wish to be involved in the project.

The purpose of consultation is to assist Spark Renewables to:

1. Assess the Aboriginal heritage values of the area.

2. Assist NSW Government in the assessment of Aboriginal heritage reports prepared for this project.

3. Support any future applications or approvals for the project sought under NSW *Environmental Planning and Assessment Act 1979* and/or NSW *National Parks and Wildlife Act 1974*.

If you wish to register your interest as an Aboriginal party in subsequent consultation, please contact Alan Williams at the below details by **1 January 2023**.

Alan Williams
E: awilliams@emmconsulting.com.au
T: 02 9493 9500
EMM Consulting Pty Ltd
20 Chandos Street, St Leonards, NSW 2065

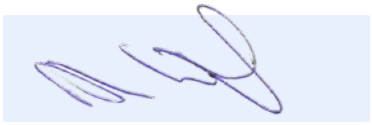
In your response, please provide the following information:

- clear identification of the individual and/or organisation registering an interest. Please ensure all contact details and personal, along with relevant phone, address and email (if available) is provided;
- preferred communication method (eg email) during the consultation of this project, along with your organisation's nominated contact person and their details;
- the level of project involvement you or your organisation wishes, including attendance of meetings, fieldwork participation and/or simply reviewing documentation;
- identification of any procedures, protocols or requirements for the use and reproduction of any cultural information or materials you or your organisation provides EMM as part of this project; and
- identification of any Aboriginal objects, sites and/or areas of cultural value that you are aware of in, or near, the project investigation area.

As required by the consultation guidelines, details of people registering as Aboriginal Parties will be forwarded to Heritage NSW and the relevant Local Aboriginal Land Council unless you specify otherwise in your response.

If you have any questions or enquiries, please don't hesitate to contact us.

Yours sincerely



Dr Alan Williams FRSA FSA MAACAI
Technical Lead, Aboriginal Heritage
awilliams@emmconsulting.com.au

Table 1 Cadastral lots within project investigation area

Lot	DP
8	532988
49	756444
48	756444
47	756444
46	756444
29	756444
28	756444
27	756444
103	756444
104	756444
105	756444
106	756444
107	756444
108	756444
26	756444
24	756444
32	756444
31	756444
30	756444
45	756444
44	756444
44	756396
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39	756396
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22A	756444
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6	532988
6	113903
7	532988
9	113903
6	594041
43	756396
1	113903
7	594041
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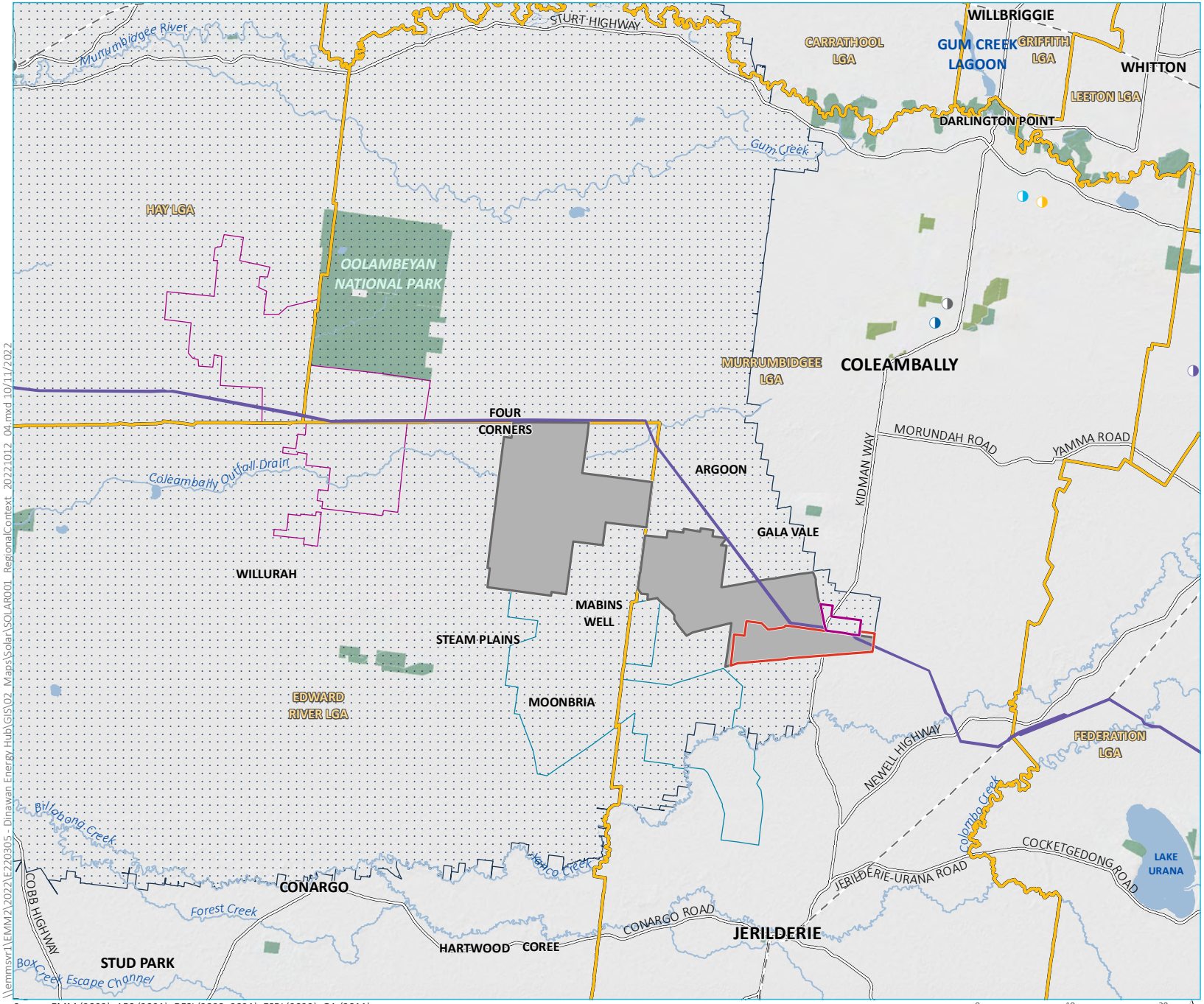
2	1244278
3	1244278



\\emmsvr1\EMM2\2022\E220305 - Dinawan Energy Hub\GIS\02 Maps\Solar\SOLAR001 RegionalContext 20221012 04.mxd 10/11/2022

Source: EMM (2022); ABS (2021); DFSI (2020, 2021); ESRI (2022); GA (2011)

Regional context

Dinawan Solar Farm
Scoping Report
Figure 1.1

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From:	Geospatial Search Requests
To:	Taylar Reid
Cc:	Melanie Thomson; David Richards; Sofia Stergio
Subject:	RE: SR24/594 - Dinawan Wind Farm - Aboriginal heritage - request for information [SEC=OFFICIAL]
Date:	Thursday, 4 April 2024 10:23:13 AM
Attachments:	image001.png image002.png image003.png SR24_594_Results.xlsx GeospatialSearch2023.pdf GeospatialSearch2023.dotx

CAUTION: This email originated outside of the Organisation.

OFFICIAL

Your ref: *E220305* **Our ref:** *SR24/594*

Dear Taylar Reid

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

Please note: We have attached our current search forms for your future use.

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

0. Schedule of Native Title Determination Applications
1. Register of Native Title Claims
2. Native Title Determinations
3. Indigenous Land Use Agreements (Registered and notified)

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
Email: GeospatialSearch@nntt.gov.au **| www.nntt.gov.au**

From: Sofia Stergio <sstergio@emmconsulting.com.au>
Sent: Wednesday, April 3, 2024 1:27 PM
To: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Cc: Taylar Reid <treid@emmconsulting.com.au>; Melanie Thomson <mthomson@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>
Subject: SR24/594 - Dinawan Wind Farm - Aboriginal heritage - request for information

You don't often get email from sstergio@emmconsulting.com.au. Learn why this is important

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

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed wind farm south of Coleambally, in the vicinity of Kidman Way and Four Corners Road (Murrumbidgee and Edward River LGA). Aboriginal consultation has been ongoing since 2021, including a search request in 2022.

As this project is going, we would like to undertake this search again to ensure our data is up to date.

Please find attached a search request form with an excel spreadsheet of Lot and DPs.

Thanks,

Sofia Stergio
Graduate Environmental Consultant – Environmental Planning and Approvals

T 02 9493 9500
M 0478 912 157
LI Connect on LinkedIn
emmconsulting.com.au

SYDNEY | Gamaraigal Country, Ground floor, 20 Chandos Street, St Leonards NSW 2065

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Spatial Search for Overlapping Native Title

Selected search: Cadastre
Date: 03/04/2024
Note:

- *Links to the ILUA extract will not work if the ILUA is not yet registered.*
- *Links to the National Native Title Register details and extract will not work if the determination is not yet registered.*
- *Areas derived using SQL Server Geography.*
- *Datum: GDA2020*

Results for overlapping native title matters inNSW:

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
1//DP113903	FREEHOLD	8/03/2024	0.3686	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP1244278	FREEHOLD	8/03/2024	0.3605	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP1245394	FREEHOLD	8/03/2024	0.0970	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP1252143	NSW GOVERNMENT	8/03/2024	5.0193	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP48568	FREEHOLD	8/03/2024	0.2803	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP532988	FREEHOLD	8/03/2024	0.0554	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP593484	FREEHOLD	8/03/2024	4.1088	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
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1//DP756257	FREEHOLD	8/03/2024	1.2826	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP756265	FREEHOLD	8/03/2024	1.2970	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
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1//DP756291	FREEHOLD	8/03/2024	1.2634	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
1//DP756334	FREEHOLD	8/03/2024	1.2484	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
1//DP756418	FREEHOLD	8/03/2024	1.2986	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
10//DP113903	FREEHOLD	8/03/2024	0.0380	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
10//DP756257	FREEHOLD	8/03/2024	0.9806	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
10//DP756291	FREEHOLD	8/03/2024	1.2717	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
10//DP756418	FREEHOLD	8/03/2024	1.1327	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
100//DP756444	FREEHOLD	8/03/2024	0.9384	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
101//DP246957	FREEHOLD	8/03/2024	7.9865	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
101//DP756444	FREEHOLD	8/03/2024	0.9533	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
102//DP756444	FREEHOLD	8/03/2024	0.9518	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
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103//DP756444	FREEHOLD	8/03/2024	1.3122	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
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104//DP756444	FREEHOLD	8/03/2024	1.0170	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
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105//DP756444	FREEHOLD	8/03/2024	0.8566	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
106//DP756444	FREEHOLD	8/03/2024	0.7018	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
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107//DP568083	FREEHOLD	8/03/2024	4.2898	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
107//DP756444	FREEHOLD	8/03/2024	0.5588	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
108//DP756444	FREEHOLD	8/03/2024	0.4449	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
109//DP756444	FREEHOLD	8/03/2024	0.8824	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
11//DP756257	FREEHOLD	8/03/2024	0.9834	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
11//DP756291	FREEHOLD	8/03/2024	1.2892	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
11//DP756299	FREEHOLD	8/03/2024	1.2982	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
11//DP756418	FREEHOLD	8/03/2024	1.4731	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
11//DP756444	FREEHOLD	8/03/2024	0.9486	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
110//DP756444	FREEHOLD	8/03/2024	0.7514	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
111//DP739677	FREEHOLD	8/03/2024	5.6405	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
111//DP756444	FREEHOLD	8/03/2024	1.2950	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
112//DP739677	FREEHOLD	8/03/2024	1.7668	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
112//DP756444	FREEHOLD	8/03/2024	1.3107	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
113//DP739677	FREEHOLD	8/03/2024	0.5114	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
113//DP756444	FREEHOLD	8/03/2024	1.2958	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
114//DP756444	FREEHOLD	8/03/2024	1.1329	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
12//DP756257	FREEHOLD	8/03/2024	1.0127	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
12//DP756291	FREEHOLD	8/03/2024	1.2920	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
12//DP756299	FREEHOLD	8/03/2024	1.2894	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
12//DP756418	FREEHOLD	8/03/2024	1.2754	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
12//DP756444	FREEHOLD	8/03/2024	0.9471	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
123//DP756418	FREEHOLD	8/03/2024	0.9435	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
124//DP756418	FREEHOLD	8/03/2024	0.1838	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
125//DP756418	FREEHOLD	8/03/2024	0.1747	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
125//DP756444	FREEHOLD	8/03/2024	1.2965	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
126//DP756418	FREEHOLD	8/03/2024	0.2032	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
127//DP756418	FREEHOLD	8/03/2024	2.6341	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
128//DP756418	FREEHOLD	8/03/2024	0.1922	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
129//DP756418	FREEHOLD	8/03/2024	0.6035	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
13//DP756257	FREEHOLD	8/03/2024	0.8597	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
13//DP756299	FREEHOLD	8/03/2024	1.2854	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
13//DP756418	FREEHOLD	8/03/2024	1.0163	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
13//DP756444	FREEHOLD	8/03/2024	0.9751	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
130//DP756418	FREEHOLD	8/03/2024	0.1642	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
131//DP756418	FREEHOLD	8/03/2024	0.2273	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
132//DP756418	FREEHOLD	8/03/2024	0.1927	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
133//DP756396	FREEHOLD	8/03/2024	1.3147	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
133//DP756418	FREEHOLD	8/03/2024	0.2179	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
134//DP756396	FREEHOLD	8/03/2024	1.0042	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
134//DP756418	FREEHOLD	8/03/2024	1.3324	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
135//DP756418	FREEHOLD	8/03/2024	1.3340	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
136//DP756418	FREEHOLD	8/03/2024	1.2521	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
137//DP756418	FREEHOLD	8/03/2024	0.5013	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
139//DP756418	FREEHOLD	8/03/2024	1.2837	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
14//DP756257	FREEHOLD	8/03/2024	1.3068	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
14//DP756291	FREEHOLD	8/03/2024	1.3131	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
14//DP756299	FREEHOLD	8/03/2024	1.3088	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
14//DP756418	FREEHOLD	8/03/2024	1.0620	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
14//DP756444	FREEHOLD	8/03/2024	0.9206	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
140//DP756418	FREEHOLD	8/03/2024	1.1338	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
141//DP756418	FREEHOLD	8/03/2024	1.3475	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
142//DP756418	FREEHOLD	8/03/2024	1.2923	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
143//DP756418	FREEHOLD	8/03/2024	1.2969	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
144//DP756418	FREEHOLD	8/03/2024	1.5441	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
146//DP756418	FREEHOLD	8/03/2024	2.5141	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
147//DP756418	FREEHOLD	8/03/2024	1.3416	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
148//DP756418	FREEHOLD	8/03/2024	0.9408	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
15//DP756257	FREEHOLD	8/03/2024	1.2985	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
15//DP756265	FREEHOLD	8/03/2024	0.9082	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
15//DP756291	FREEHOLD	8/03/2024	1.3238	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
15//DP756418	FREEHOLD	8/03/2024	0.9925	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
15//DP756444	FREEHOLD	8/03/2024	0.9390	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
152//DP756418	FREEHOLD	8/03/2024	0.6737	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
153//DP756418	FREEHOLD	8/03/2024	0.7155	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
154//DP756418	FREEHOLD	8/03/2024	1.0815	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
16//DP756257	FREEHOLD	8/03/2024	0.6483	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
16//DP756265	FREEHOLD	8/03/2024	0.9846	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
16//DP756291	FREEHOLD	8/03/2024	1.3027	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
16//DP756418	FREEHOLD	8/03/2024	0.9631	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
16//DP756444	FREEHOLD	8/03/2024	1.2878	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
17//DP756257	FREEHOLD	8/03/2024	0.8536	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
17//DP756265	FREEHOLD	8/03/2024	1.0529	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
17//DP756291	FREEHOLD	8/03/2024	1.3038	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
17//DP756418	FREEHOLD	8/03/2024	1.4862	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
17//DP756444	FREEHOLD	8/03/2024	1.2475	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
18//DP756257	FREEHOLD	8/03/2024	0.8913	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
18//DP756265	FREEHOLD	8/03/2024	1.1472	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
18//DP756291	FREEHOLD	8/03/2024	1.2954	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
18//DP756418	FREEHOLD	8/03/2024	1.2750	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
18//DP756444	FREEHOLD	8/03/2024	0.7741	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
19//DP756257	FREEHOLD	8/03/2024	0.9280	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
19//DP756265	FREEHOLD	8/03/2024	1.2893	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
19//DP756291	FREEHOLD	8/03/2024	1.2937	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
19//DP756299	FREEHOLD	8/03/2024	1.3323	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
19//DP756418	FREEHOLD	8/03/2024	1.2669	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
19//DP756444	FREEHOLD	8/03/2024	0.5385	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP1244278	FREEHOLD	8/03/2024	1.3233	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP1245394	FREEHOLD	8/03/2024	0.6567	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP1252143	NSW GOVERNMENT	8/03/2024	1.1581	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP532988	FREEHOLD	8/03/2024	0.0458	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP733637	FREEHOLD	8/03/2024	5.1050	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP756257	FREEHOLD	8/03/2024	1.2810	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP756265	FREEHOLD	8/03/2024	1.8100	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP756291	FREEHOLD	8/03/2024	1.3160	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP756334	FREEHOLD	8/03/2024	0.6527	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
2//DP756418	FREEHOLD	8/03/2024	1.3054	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
20//DP756257	FREEHOLD	8/03/2024	1.2936	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
20//DP756265	FREEHOLD	8/03/2024	1.3109	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
20//DP756299	FREEHOLD	8/03/2024	1.2833	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
20//DP756418	FREEHOLD	8/03/2024	1.0753	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
20A//DP756444	FREEHOLD	8/03/2024	1.2998	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
21//DP756257	FREEHOLD	8/03/2024	0.7309	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
21//DP756265	FREEHOLD	8/03/2024	1.2925	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
21//DP756291	FREEHOLD	8/03/2024	0.9735	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
21//DP756299	FREEHOLD	8/03/2024	1.2823	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
21//DP756418	FREEHOLD	8/03/2024	1.1329	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
21A//DP756444	FREEHOLD	8/03/2024	1.2943	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
22//DP756257	FREEHOLD	8/03/2024	0.8219	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
22//DP756265	FREEHOLD	8/03/2024	1.2991	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
22//DP756291	FREEHOLD	8/03/2024	1.3077	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
22//DP756299	FREEHOLD	8/03/2024	1.2645	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
22//DP756418	FREEHOLD	8/03/2024	0.4331	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
22A//DP756444	FREEHOLD	8/03/2024	0.5672	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
23//DP756257	FREEHOLD	8/03/2024	1.3100	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
23//DP756265	FREEHOLD	8/03/2024	1.2725	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
23//DP756291	FREEHOLD	8/03/2024	1.2845	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
23//DP756299	FREEHOLD	8/03/2024	1.2755	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
23//DP756418	FREEHOLD	8/03/2024	1.3271	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
23//DP756444	FREEHOLD	8/03/2024	2.0016	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
24//DP756257	FREEHOLD	8/03/2024	1.8438	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
24//DP756265	FREEHOLD	8/03/2024	1.3044	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
24//DP756291	FREEHOLD	8/03/2024	0.9859	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
24//DP756299	FREEHOLD	8/03/2024	1.3205	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
24//DP756444	FREEHOLD	8/03/2024	1.2983	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
25//DP756265	FREEHOLD	8/03/2024	1.2932	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
25//DP756334	FREEHOLD	8/03/2024	0.6374	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
25//DP756418	FREEHOLD	8/03/2024	1.3034	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
26//DP756265	FREEHOLD	8/03/2024	1.2878	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
26//DP756291	FREEHOLD	8/03/2024	0.9905	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
26//DP756334	FREEHOLD	8/03/2024	0.9711	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
26//DP756418	FREEHOLD	8/03/2024	2.5749	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
26//DP756444	FREEHOLD	8/03/2024	1.3150	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
27//DP756265	FREEHOLD	8/03/2024	1.2915	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
27//DP756299	FREEHOLD	8/03/2024	1.1493	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature
				No overlap			-	0.00%
27//DP756418	FREEHOLD	8/03/2024	1.2881	NNTT File Number	Name	Category	Overlap Area SqKm	% Selected Feature

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
27//DP756444	FREEHOLD	8/03/2024	1.2908	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
28//DP756265	FREEHOLD	8/03/2024	1.2925	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
28//DP756299	FREEHOLD	8/03/2024	0.4842	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
28//DP756418	FREEHOLD	8/03/2024	1.3087	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
28//DP756444	FREEHOLD	8/03/2024	1.2859	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
29//DP756265	FREEHOLD	8/03/2024	1.3027	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
29//DP756291	FREEHOLD	8/03/2024	0.7311	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
29//DP756299	FREEHOLD	8/03/2024	1.2900	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
29//DP756418	FREEHOLD	8/03/2024	1.3135	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
29//DP756444	FREEHOLD	8/03/2024	1.3006	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP1244278	FREEHOLD	8/03/2024	0.3651	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP1245394	FREEHOLD	8/03/2024	0.6911	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP532988	FREEHOLD	8/03/2024	0.0010	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP593483	FREEHOLD	8/03/2024	1.9206	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP756257	FREEHOLD	8/03/2024	0.8155	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP756265	FREEHOLD	8/03/2024	1.3284	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
3//DP756291	FREEHOLD	8/03/2024	1.2868	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP756334	FREEHOLD	8/03/2024	0.9954	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
3//DP756418	FREEHOLD	8/03/2024	1.3200	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
30//DP756265	FREEHOLD	8/03/2024	1.0234	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
30//DP756291	FREEHOLD	8/03/2024	0.7564	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
30//DP756299	FREEHOLD	8/03/2024	1.2963	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
30//DP756418	FREEHOLD	8/03/2024	1.2921	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
30//DP756444	FREEHOLD	8/03/2024	1.3147	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
31//DP756265	FREEHOLD	8/03/2024	1.3329	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
31//DP756291	FREEHOLD	8/03/2024	0.7684	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
31//DP756299	FREEHOLD	8/03/2024	1.2890	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
31//DP756418	FREEHOLD	8/03/2024	0.9806	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
31//DP756444	FREEHOLD	8/03/2024	1.2983	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
32//DP756265	FREEHOLD	8/03/2024	0.9946	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
32//DP756291	FREEHOLD	8/03/2024	0.9991	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
32//DP756299	FREEHOLD	8/03/2024	1.2827	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
32//DP756418	FREEHOLD	8/03/2024	1.2744	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
32//DP756444	FREEHOLD	8/03/2024	1.3065	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
33//DP756265	FREEHOLD	8/03/2024	1.2738	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
33//DP756291	FREEHOLD	8/03/2024	0.9598	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
33//DP756299	FREEHOLD	8/03/2024	1.2762	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
33//DP756418	FREEHOLD	8/03/2024	0.2584	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
33//DP756444	FREEHOLD	8/03/2024	1.2985	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
34//DP756265	FREEHOLD	8/03/2024	1.2924	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
34//DP756291	FREEHOLD	8/03/2024	0.9719	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
34//DP756299	FREEHOLD	8/03/2024	1.2894	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
34//DP756418	FREEHOLD	8/03/2024	1.2884	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
34//DP756444	FREEHOLD	8/03/2024	1.2829	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
35//DP756265	FREEHOLD	8/03/2024	1.0101	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
35//DP756291	FREEHOLD	8/03/2024	0.9764	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
35//DP756299	FREEHOLD	8/03/2024	1.3039	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
35//DP756418	FREEHOLD	8/03/2024	1.4217	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
35//DP756444	FREEHOLD	8/03/2024	1.2965	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
36//DP756265	FREEHOLD	8/03/2024	1.3323	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
36//DP756291	FREEHOLD	8/03/2024	1.2969	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
36//DP756299	FREEHOLD	8/03/2024	1.3159	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
36//DP756418	FREEHOLD	8/03/2024	0.5352	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
36//DP756444	FREEHOLD	8/03/2024	1.7192	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
37//DP756265	FREEHOLD	8/03/2024	1.0099	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
37//DP756291	FREEHOLD	8/03/2024	0.9713	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
37//DP756299	FREEHOLD	8/03/2024	1.3068	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
37//DP756444	FREEHOLD	8/03/2024	1.1359	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
38//DP756265	FREEHOLD	8/03/2024	1.2954	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
38//DP756291	FREEHOLD	8/03/2024	1.3288	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
38//DP756334	FREEHOLD	8/03/2024	0.9517	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
38//DP756444	FREEHOLD	8/03/2024	1.2950	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
39//DP756265	FREEHOLD	8/03/2024	1.2688	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
39//DP756291	FREEHOLD	8/03/2024	1.2652	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
39//DP756299	FREEHOLD	8/03/2024	1.3020	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
39//DP756334	FREEHOLD	8/03/2024	0.8395	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
39//DP756396	FREEHOLD	8/03/2024	0.8708	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
39//DP756444	FREEHOLD	8/03/2024	1.2897	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
4//DP1245394	NSW GOVERNMENT	8/03/2024	0.0652	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
4//DP532988	FREEHOLD	8/03/2024	0.0272	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
4//DP756257	FREEHOLD	8/03/2024	0.8763	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
4//DP756291	FREEHOLD	8/03/2024	1.2934	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
4//DP756418	FREEHOLD	8/03/2024	1.3336	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
40//DP756265	FREEHOLD	8/03/2024	0.9739	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
40//DP756291	FREEHOLD	8/03/2024	1.2687	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
40//DP756299	FREEHOLD	8/03/2024	1.2972	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
40//DP756396	FREEHOLD	8/03/2024	0.8858	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
40//DP756444	FREEHOLD	8/03/2024	0.4809	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
41//DP756265	FREEHOLD	8/03/2024	1.2727	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
41//DP756291	FREEHOLD	8/03/2024	1.2973	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
41//DP756299	FREEHOLD	8/03/2024	1.2885	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
41//DP756396	FREEHOLD	8/03/2024	1.0164	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
41//DP756444	FREEHOLD	8/03/2024	0.8039	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
41//DP756450	FREEHOLD	8/03/2024	1.3084	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
42//DP756265	FREEHOLD	8/03/2024	1.2598	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
42//DP756291	FREEHOLD	8/03/2024	1.3186	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
42//DP756299	FREEHOLD	8/03/2024	1.2710	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
42//DP756396	FREEHOLD	8/03/2024	1.2613	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
42//DP756444	FREEHOLD	8/03/2024	0.7043	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
43//DP756265	FREEHOLD	8/03/2024	0.9402	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
43//DP756291	FREEHOLD	8/03/2024	1.2968	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
43//DP756299	FREEHOLD	8/03/2024	1.2916	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
43//DP756396	FREEHOLD	8/03/2024	1.3167	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
43//DP756444	FREEHOLD	8/03/2024	0.5988	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
44//DP756265	FREEHOLD	8/03/2024	1.3005	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
44//DP756291	FREEHOLD	8/03/2024	1.2616	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
44//DP756396	FREEHOLD	8/03/2024	0.9264	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
44//DP756444	FREEHOLD	8/03/2024	1.2971	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
45//DP756265	FREEHOLD	8/03/2024	0.6509	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
45//DP756291	FREEHOLD	8/03/2024	1.2271	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
45//DP756396	FREEHOLD	8/03/2024	1.0449	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
45//DP756444	FREEHOLD	8/03/2024	1.3187	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
46//DP756265	FREEHOLD	8/03/2024	0.9008	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
46//DP756291	FREEHOLD	8/03/2024	1.3468	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
46//DP756396	FREEHOLD	8/03/2024	0.7563	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
46//DP756444	FREEHOLD	8/03/2024	1.3050	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
47//DP756265	FREEHOLD	8/03/2024	0.8957	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
47//DP756291	FREEHOLD	8/03/2024	1.2950	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
47//DP756396	FREEHOLD	8/03/2024	0.8068	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
47//DP756444	FREEHOLD	8/03/2024	1.2716	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
48//DP756265	FREEHOLD	8/03/2024	1.3015	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
48//DP756291	FREEHOLD	8/03/2024	1.3088	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
48//DP756396	FREEHOLD	8/03/2024	0.8915	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
48//DP756444	FREEHOLD	8/03/2024	1.2913	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
49//DP756265	FREEHOLD	8/03/2024	1.0161	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
49//DP756291	FREEHOLD	8/03/2024	1.3274	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
49//DP756444	FREEHOLD	8/03/2024	1.2971	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
5//DP532988	FREEHOLD	8/03/2024	0.0269	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
5//DP594041	FREEHOLD	8/03/2024	1.0917	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
5//DP756257	FREEHOLD	8/03/2024	0.6432	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
5//DP756291	FREEHOLD	8/03/2024	1.2985	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
5//DP756418	FREEHOLD	8/03/2024	1.3243	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
50//DP756265	FREEHOLD	8/03/2024	0.6404	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
50//DP756291	FREEHOLD	8/03/2024	1.3228	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
51//DP756265	FREEHOLD	8/03/2024	0.6904	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
51//DP756291	FREEHOLD	8/03/2024	0.9978	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
52//DP756265	FREEHOLD	8/03/2024	1.2237	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
52//DP756291	FREEHOLD	8/03/2024	1.3145	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
52//DP756459	FREEHOLD	8/03/2024	1.0075	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
53//DP756265	FREEHOLD	8/03/2024	0.7268	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
53//DP756291	FREEHOLD	8/03/2024	1.2468	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
53//DP756459	FREEHOLD	8/03/2024	2.5042	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
54//DP756265	FREEHOLD	8/03/2024	1.2972	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
54//DP756291	FREEHOLD	8/03/2024	0.9565	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
55//DP756265	FREEHOLD	8/03/2024	1.2212	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
55//DP756291	FREEHOLD	8/03/2024	1.2880	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
56//DP756265	FREEHOLD	8/03/2024	0.9807	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
56//DP756291	FREEHOLD	8/03/2024	1.2700	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
56//DP756459	FREEHOLD	8/03/2024	1.1043	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
57//DP756265	FREEHOLD	8/03/2024	1.3059	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
57//DP756291	FREEHOLD	8/03/2024	1.2984	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
57//DP756459	FREEHOLD	8/03/2024	0.9148	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
58//DP756265	FREEHOLD	8/03/2024	1.2714	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
58//DP756291	FREEHOLD	8/03/2024	0.9856	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
58//DP756450	FREEHOLD	8/03/2024	0.3236	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
58//DP756459	FREEHOLD	8/03/2024	1.0202	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
59//DP756265	FREEHOLD	8/03/2024	1.1871	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
59//DP756291	FREEHOLD	8/03/2024	1.2958	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
59//DP756334	FREEHOLD	8/03/2024	1.2138	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
59//DP756459	FREEHOLD	8/03/2024	1.8034	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
6//DP113903	FREEHOLD	8/03/2024	0.0278	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
6//DP532988	FREEHOLD	8/03/2024	0.0276	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
6//DP594041	FREEHOLD	8/03/2024	0.6230	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
6//DP756257	FREEHOLD	8/03/2024	0.8726	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
6//DP756291	FREEHOLD	8/03/2024	1.3003	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
6//DP756418	FREEHOLD	8/03/2024	0.8696	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
60//DP756265	FREEHOLD	8/03/2024	0.9149	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
60//DP756291	FREEHOLD	8/03/2024	0.7823	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
60//DP756459	FREEHOLD	8/03/2024	1.5805	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
61//DP756265	FREEHOLD	8/03/2024	0.8260	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
61//DP756291	FREEHOLD	8/03/2024	1.9948	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
61//DP756459	FREEHOLD	8/03/2024	1.3761	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
62//DP756265	FREEHOLD	8/03/2024	1.2433	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
62//DP756291	FREEHOLD	8/03/2024	0.6835	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
62//DP756334	FREEHOLD	8/03/2024	0.6527	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
62//DP756459	FREEHOLD	8/03/2024	1.1701	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
63//DP756291	FREEHOLD	8/03/2024	1.3029	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
63//DP756334	FREEHOLD	8/03/2024	1.2775	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
63//DP756459	FREEHOLD	8/03/2024	0.9810	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
64//DP756291	FREEHOLD	8/03/2024	1.3262	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
64//DP756459	FREEHOLD	8/03/2024	0.7626	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
65//DP756291	FREEHOLD	8/03/2024	1.2750	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
66//DP756291	FREEHOLD	8/03/2024	0.6707	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
66//DP756299	FREEHOLD	8/03/2024	1.2945	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
66//DP756334	FREEHOLD	8/03/2024	0.9511	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
67//DP756291	FREEHOLD	8/03/2024	0.4247	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
67//DP756299	FREEHOLD	8/03/2024	1.2860	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
67//DP756334	FREEHOLD	8/03/2024	0.9993	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
68//DP756291	FREEHOLD	8/03/2024	1.3011	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
69//DP756291	FREEHOLD	8/03/2024	1.3205	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
7//DP532988	FREEHOLD	8/03/2024	0.0021	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
7//DP594041	FREEHOLD	8/03/2024	0.1873	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
7//DP756257	FREEHOLD	8/03/2024	0.8194	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
7//DP756291	FREEHOLD	8/03/2024	1.2878	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
7//DP756418	FREEHOLD	8/03/2024	0.8488	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
70//DP756291	FREEHOLD	8/03/2024	2.5274	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
7005//DP1050527	CROWN	8/03/2024	0.2628	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
71//DP756291	FREEHOLD	8/03/2024	0.5151	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
72//DP756291	CROWN	8/03/2024	0.5511	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
7303//DP1159319	CROWN	8/03/2024	3.2516	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
76//DP756299	FREEHOLD	8/03/2024	0.6394	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
77//DP756265	FREEHOLD	8/03/2024	0.3667	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
8//DP113903	FREEHOLD	8/03/2024	0.0141	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
8//DP532988	FREEHOLD	8/03/2024	0.0558	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
8//DP756257	FREEHOLD	8/03/2024	0.6655	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
8//DP756291	FREEHOLD	8/03/2024	1.2690	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
8//DP756418	FREEHOLD	8/03/2024	1.3315	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
84//DP756450	FREEHOLD	8/03/2024	1.0106	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**

Feature ID	Tenure	Cadastre Data As At	Feature Area SqKm	Overlapping Native Title Feature				
				No overlap			-	0.00%
9//DP113903	FREEHOLD	8/03/2024	0.0300	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
9//DP756257	FREEHOLD	8/03/2024	1.3027	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
9//DP756291	FREEHOLD	8/03/2024	1.2720	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
9//DP756418	FREEHOLD	8/03/2024	1.2990	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
A//DP100260	FREEHOLD	8/03/2024	0.9177	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%
B//DP100260	FREEHOLD	8/03/2024	0.4187	**NNTT File Number**	**Name**	**Category**	**Overlap Area SqKm**	**% Selected Feature**
				No overlap			-	0.00%

These items not found in NNTT Cadastre data in NSW:

Parcel ID
55//DP756396
4//DP593483
7//DP113903
54//DP756396
4//DP44554

Request for Spatial Search of Tribunal Registers

National Native Title Tribunal

Your assistance in providing information in the correct format will ensure that your search request is dealt with as efficiently as possible. **The completed form must accompany your emailed request.**

It may take up to three working days to provide you with your search results when you submit conventional search criteria (tenement or land parcel identifiers). It may take up to five working days for more complex or larger searches. The Tribunal will contact you if a result cannot be provided within this timeframe.

Parcel Identifiers

The NNTT uses the terminology and formatting of unique identifiers used in each state to uniquely identify a land parcel. Please identify land parcels using the formats below:

1. **Western Australia and Queensland** – use Lot on plan details (e.g. WA - 124/P098764 or QLD - 124DP98764).
2. **New South Wales** – use Lot/Section/Plan details (e.g. 124/7/DP258456 or 124//DP568954).
3. **Northern Territory** - use LAISKEY details (e.g. 695 1256 or 000 2568). The laiskey is a unique identifier for each parcel comprised of the location code, LTO code (derived from the survey plan) where applicable and the parcel number
4. **South Australia –** use Plan/Parcel ID (e.g. H529687AL125). Concatenation of Plan Type, Plan, Parcel Type and Parcel.
5. **Victoria -** use SPI (Standard Parcel Identifier) details (e.g. 1\PP2870 or 9E~\PP3306).

The Search Form

1. Specify only **one jurisdiction** (e.g. Queensland) and **one type of tenure** (e.g. mining tenement) per form.
2. You can add up to 20 separate tenements or parcels per search request. Enter one parcel identifier per form field. Do not use ranges such as lots 5 to 15 on Plan DP1486.
3. **For more than 20 parcels or tenements, please submit additional search requests or alternatively attach an Excel spreadsheet along with your completed search form**. List the parcel identifiers in the correct unique format (see above).
4. If your area of interest cannot be clearly identified from the search form, or is not held in NNTT datasets, we may instead provide search results for a surrounding local government area, or other suitable regional area

Disclaimers and additional notes in relation to timeframes, freehold land and cultural heritage in NSW are addressed on the Geospatial Searches homepage and these should be referred to prior to lodging your request.

If you have any further queries please contact GeospatialSearch@NNTT.gov.au to discuss.

Request for Spatial Search of Tribunal Registers

National Native Title Tribunal

1: Your details

Your name:			
Your company:			
E-mail address:		Phone:	
Your reference:		Your state:	ACT
☐	*I have read and acknowledge the terms and conditions on the previous page.*		

2: Areas to be searched

Jurisdiction to be searched:	ACT	Tenure to be searched:	Mining tenement

Parcel or tenement identifiers (add up to 20 separate identifiers). **Please see previous page for parcel identifiers.**

Parcel 1:		Parcel 2:	
Parcel 3:		Parcel 4:	
Parcel 5:		Parcel 6:	
Parcel 7:		Parcel 8:	
Parcel 9:		Parcel 10:	
Parcel 11:		Parcel 12:	
Parcel 13:		Parcel 14:	
Parcel 15:		Parcel 16:	
Parcel 17:		Parcel 18:	
Parcel 19:		Parcel 20:	

If your search area is not a parcel or mining or petroleum tenement, you can enter other tenure or administrative regions here (e.g. local government area, townsite or county). Please provide as much detail as you can.

E-mail the completed form to GeospatialSearch@NNTT.gov.au

From: Aboriginal Owners
To: Sofia Stergio; Aboriginal Owners
Cc: Taylar Reid; David Richards; Melanie Thomson
Subject: RE: Dinawan Wind Farm - Aboriginal heritage - request for information
Date: Monday, 8 April 2024 12:51:32 PM
Attachments: image006.png
image007.png
image008.png
image009.png
image010.png
image011.jpg
20240408 AO Search ACHA - Coleambally Wind Farm. EMM Consulting.pdf

CAUTION: This email originated outside of the Organisation.

OFFICIAL

Dear Sofia,

Please find attached the response from the Office of the Registrar, ALRA to your letter of 03 April 2024 regarding the proposed wind farm south of Coleambally, in the vicinity of Kidman Way and Four Corners Road (Murrumbidgee and Edward River LGA).

If you have any further questions, please respond by return email.

Kind Regards

The Aboriginal Owners team
Office of the Registrar, Aboriginal Land Rights Act 1983
Premier's Department
T (02) 8575 1160 **E** aboriginalowners@oralra.nsw.gov.au
www.oralra.nsw.gov.au

PO Box 787
PARRAMATTA NSW 2124
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.

OFFICIAL

From: Sofia Stergio <sstergio@emmconsulting.com.au>
Sent: Wednesday, April 3, 2024 4:15 PM
To: Aboriginal Owners <aboriginalowners@oralra.nsw.gov.au>
Cc: Taylar Reid <treid@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Melanie Thomson <mthomson@emmconsulting.com.au>
Subject: Dinawan Wind Farm - Aboriginal heritage - request for information

You don't often get email from sstergio@emmconsulting.com.au. Learn why this is important

[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.]

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed wind farm south of Coleambally, in the vicinity of Kidman Way and Four Corners Road (Murrumbidgee and Edward River LGA). Aboriginal consultation has been ongoing since 2021, including a land claim search request in 2022 (see email below).

As this project is going, we would like to undertake this search again to ensure our data is up to date.

Please find attached a search request form with an excel spreadsheet of Lot and DPs.

Thanks,

Sofia Stergio
Graduate Environmental Consultant – Environmental Planning and Approvals
T 02 9493 9500
M 0478 912 157
LI Connect on LinkedIn
emmconsulting.com.au
SYDNEY | Gamaraigal Country, Ground floor, 20 Chandos Street, St Leonards NSW 2065

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From: Alan Williams <awilliams@emmconsulting.com.au>
Sent: Wednesday, November 23, 2022 9:14 AM
To: Office of Registrar <adminofficer@oralra.nsw.gov.au>
Cc: Morgan Wilcox <mwilcox@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>
Subject: Dinawan Wind Farm - Aboriginal heritage - request for information

Dear Sir/Madam,

EMM Consulting Pty Limited, on behalf of Spark Renewables, is undertaking an Aboriginal cultural heritage assessment (ACHA) of a proposed wind farm south of Coleambally, in the vicinity of Kidman Way and Four Corners Road (Murrumbidgee and Edward River LGA). Aboriginal consultation began on this project last year, however with the changing consultant and some delays in this process, we have opted to re-start the process. As such, and in accordance with Heritage NSW consultation guidelines, we request any information your organisation has available in relation to Aboriginal individuals and/or organisations that may be interested in being consulted on the project. Please find your search request form with an excel spreadsheet of Lot and DPs attached

I also want to highlight that this project is one of two being undertaken concurrently – the other being an adjacent solar farm. Given they are both being assessed separately and potentially at different timeframes, we will also be providing a separate request for the solar farm shortly.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director
Technical Lead, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions
T 02 9493 9500
M 0438 104 740
D 02 9493 9584
Connect with us
SYDNEY | Ground floor, 20 Chandos Street, St Leonards NSW 2065

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Text Description automatically generated

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OFFICE OF THE REGISTRAR
ABORIGINAL LAND RIGHTS ACT 1983 (NSW)

08 April 2024

By email: sstergio@emmconsulting.com.au

Sofia Stergio
EMM Consulting Pty Ltd
20 Chandos St
St Leonards NSW 2065

Dear Sofia,

Request - Search for Registered Aboriginal Owners – wind farm south of Coleambally, in the vicinity of Kidman Way and Four Corners Road (Murrumbidgee and Edward River LGA).

We refer to your letter dated 03 April 2024 seeking the identification of Aboriginal organisations and people who may have an interest in the proposed wind farm south of Coleambally, in the vicinity of Kidman Way and Four Corners Road (Murrumbidgee and Edward River LGA).

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.

We suggest you contact Griffith and Cummeragunja Local Aboriginal Land Councils on the details below as they may wish to participate.

Yours sincerely

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

Cummeragunja Local Aboriginal Land Council
PO Box 99, MOAMA NSW 2731
Ph: (03) 5869 3372
Email: CEO@CummeraLALC.com.au

Griffith Local Aboriginal Land Council
PO Box 8043, EAST GRIFFITH, NSW 2680
Ph: (02) 6962 6711
Email: grifflalc@bigpond.com

B.4 Stages 2 and 3 – presentation of information and gathering cultural information

Ground floor 20 Chandos Street
St Leonards NSW 2065
PO Box 21
St Leonards NSW 1590
02 9493 9500
www.emmconsulting.com.au

23 January 2023

Re: Dinawan Energy Hub (Solar Farm) - Aboriginal cultural heritage assessment - project information and assessment methodology

Dear Sir/Madam,

1 Introduction

Thank you for your interest in the proposed Dinawan Energy Hub (the project).

The project comprises two separate (but related) development applications:

- a solar farm with a generation capacity of up to approximately 1,000 MW(AC), with a development footprint of 2,500 ha and an investigation area of 4,500 ha; and
- a wind farm with a capacity of 1-1.5 GW, via the instalment of 250 wind turbine generators, with an investigation area of 39,000 ha.

This document relates to the proposed solar farm (Figures 1.1 and 1.2).

The project is State significant development (SSD) pursuant to Schedule 1 of *State Environmental Planning Policy (Planning Systems) 2021*. Accordingly, approval for the project is required under Part 4 of the NSW *Environmental Planning and Assessment Act 1979* (NSW) (EP&A Act). As part of investigations to inform an Environmental Impact Statement (EIS) required for this process, Spark Renewables Pty Limited has engaged EMM Consulting Pty Limited (EMM) to assist in the assessment of cultural materials within the proposed investigation area, determine any potential impacts, and develop suitable Aboriginal cultural heritage management strategies for the project.

The project will be located about halfway between the towns of Coleambally and Jerilderie and lies within the Murrumbidgee local government area (LGA) in New South Wales (NSW). The land within the project investigation area is privately owned and is divided into two distinct sections, one to the west of Kidman Way and one to the east. It is proposed that the eastern and western areas are connected via an overhead or underground line.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

The aims of this letter are to:

- provide an overview of the project and how it will be assessed;
- provide background on the project and some of the initial investigations to date;
- establish the purpose and aims of the Aboriginal consultation process;

- seek information about any Aboriginal cultural heritage values and sensitivities associated with the project and how they may affect, inform or refine the project and/or assessment methods;
- seek information on any cultural activities (such as fishing and hunting) that has historically and/or is actively being undertaken in the study area;
- identify any culturally appropriate protocols that registered parties wish to be adopted during the information gathering process (eg protocols during field survey, or handling of culturally sensitive information); and
- present a draft of the intended assessment methods for your review and comment.

We welcome your feedback at your earliest convenience. We will be consulting with the registered Aboriginal parties for the duration of the Aboriginal cultural heritage assessment (ACHA), currently proposed to extend to early 2023. However, for the purposes of this initial stage of consultation and in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010), we request any written response on the information and process included below by **20 February 2023** (28 days from date of distribution).

For reference, the applicant contact is:

Julian Kasby

Senior Development Manager, Spark Renewables

T: 0411 638 651

E: julian.kasby@sparkrenewables.com

EMM is working on the applicant's behalf, and all queries should be directed through EMM. Feedback can be provided to:

Dr Alan Williams

A: 1/20 Chandos Street, St Leonards, NSW 2065

T:02 9493 9500

E: awilliams@emmconsulting.com.au

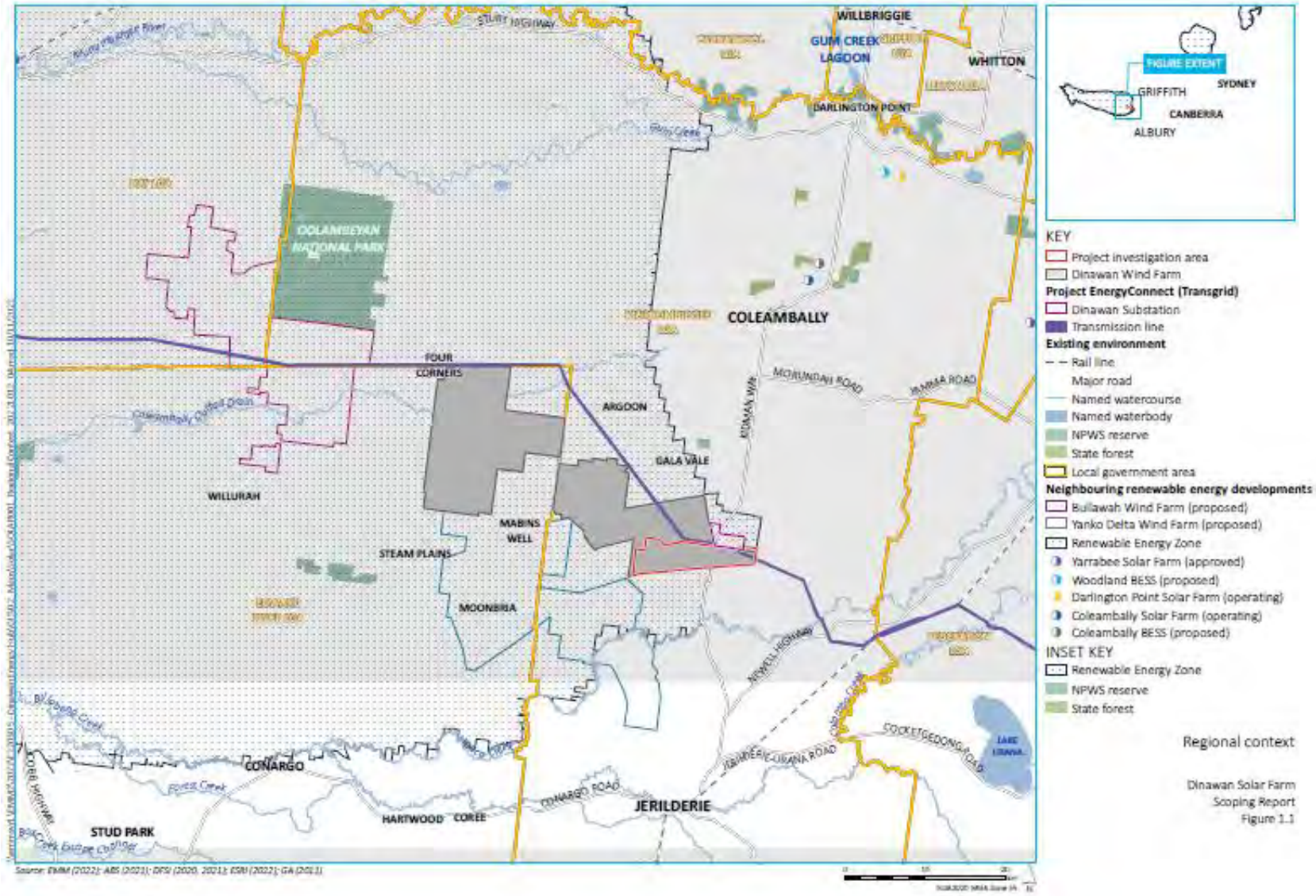


Figure 1.1 Regional context.

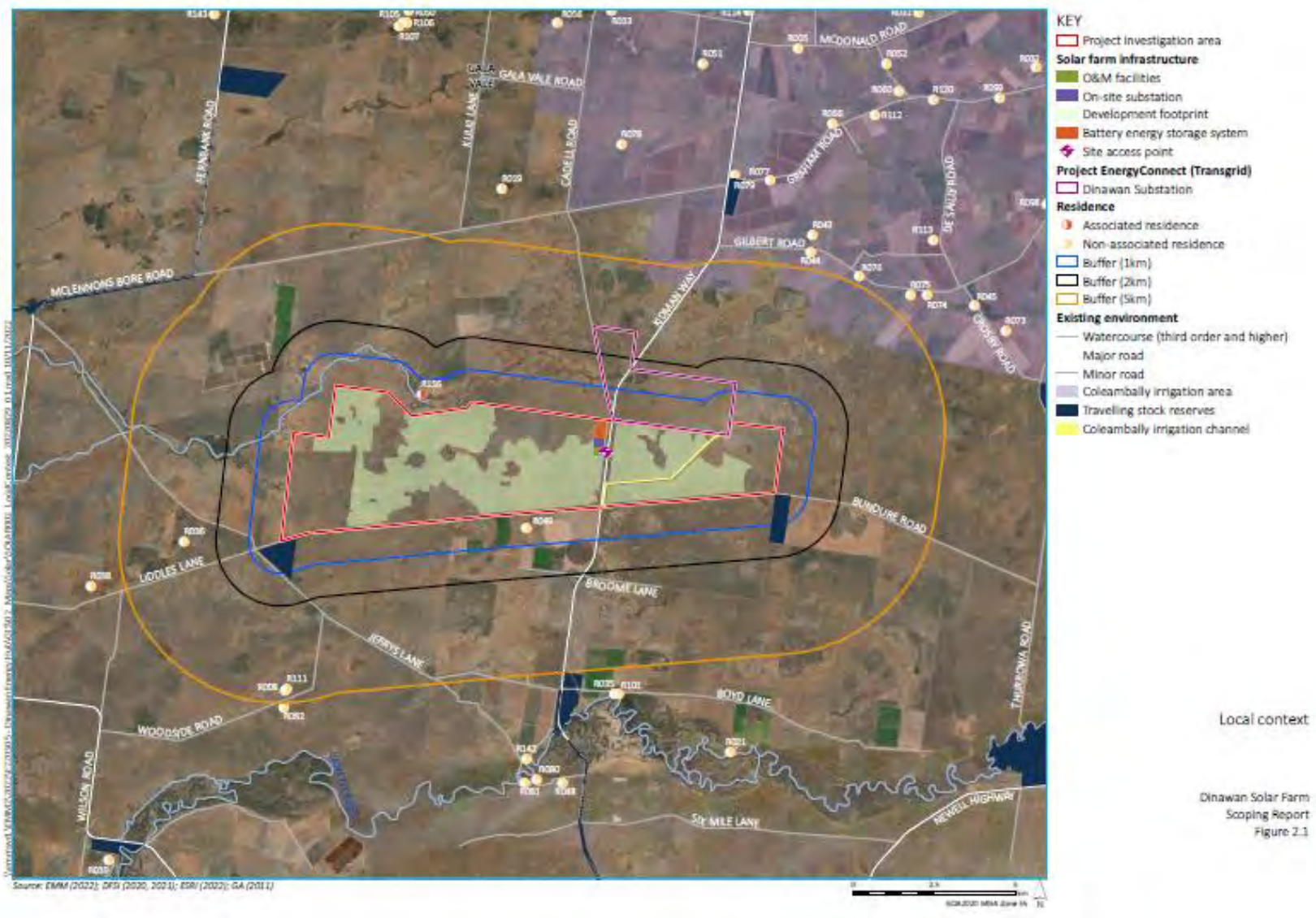


Figure 1.2 Local context.

2 Project Information

2.1 Overview

Spark Renewables Pty Limited (Spark Renewables) proposes to develop the Dinawan Solar Farm, a large-scale solar photovoltaic (PV) generation facility and battery energy storage system (BESS), supported by associated infrastructure (the project). The project is within the South-West Renewable Energy Zone (REZ) and would connect to the Dinawan Substation, which is approved to be built by Transgrid as part of the Project EnergyConnect interconnector that will run between Robertstown in South Australia and Wagga Wagga in NSW.

The project investigation area is approximately 4,500 hectares (ha). Within the project investigation area, the development footprint is expected to be around 2,500 ha. The final layout and capacity of the project will be selected on the basis of environmental constraints identification, outcomes of stakeholder engagement, engineering assessments and design of project infrastructure.

The project will have a generation capacity of up to approximately 1,000 MW(AC). The BESS will have a capacity of up to approximately 300 MW (AC or DC coupled) and will have provision for up to four hours of storage (1,200 MWh). The final layout and capacity of the project will be selected on the basis of environmental constraints identification, outcomes of stakeholder engagement, engineering assessments and design of project infrastructure.

2.2 Project elements

The final layout and capacity of the project will be selected on the basis of environmental constraints identification (including Aboriginal heritage), outcomes of stakeholder engagement, engineering assessments and design of infrastructure. It is anticipated that the physical layout and design of the project will comprise the following key infrastructure elements (Figure 2.1):

- Solar farm – approximately 1.5 million PV modules will be mounted on single-axis tracking systems within the development footprint. The solar farm will also include power conversion units (PCUs), a cable network and internal access tracks.
- Battery energy storage system (BESS) – to store and discharge electricity as required with a storage capacity of up to approximately 300 MW (AC or DC coupled)/4 hr (1,200 MWh).
- Electrical collection system, substation and control room – an on-site substation connected to the solar farm and BESS.
- Operations and maintenance (O&M) facility – including site offices, O&M buildings, amenities, equipment sheds, storage and parking areas.
- Electricity transmission line infrastructure – connecting the project substation to the proposed Dinawan Substation.
- Site access – including access to the eastern and western sections of the solar farm from Kidman Way.
- Temporary construction infrastructure – to facilitate construction and likely to include laydown and storage areas and site offices.

Subdivision for the purpose of construction, operation and maintenance of a substation may be required.

2.3 Previous Investigations

In 2021, Austral Archaeology Pty Ltd (Austral) was engaged by Spark Renewables to provide heritage advice for the project. This advice was intended to assist Spark Renewables in understanding the Aboriginal and non-Aboriginal heritage sensitivity and constraints which may be present in the study area. The brief report outlined a desktop review of previous major archaeological studies and created a predictive model for the study area. The report outlines some 82 Aboriginal archaeological objects, sites and/or places were found within 50-kilometre of the study area; and one was within its boundary (and consisting of an undefined stone artefact site) (Plate 2.1). While previous investigations extending back to the 1980s demonstrated that hearths, earth mounds, potentially culturally modified trees, and various densities of stone artefact material have been documented. It was considered unlikely that art sites, grinding grooves, stone quarries or stone arrangements are present in the study area given the characteristics of the landscape.

Austral subsequently developed a predictive model of the site, which hypothesised that Aboriginal heritage sites are most likely to occur between 40 and 400 metres from water, located on the Murrumbidgee Scalded Plains soil landscape and the Murrumbidgee Source-bordering Dunes soil landscapes (Plate 2.2).

Following this review, Austral recommended that a formal ACHA be undertaken to further inform the project. This includes the need for consultation with the local Aboriginal community, in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for proponents*.

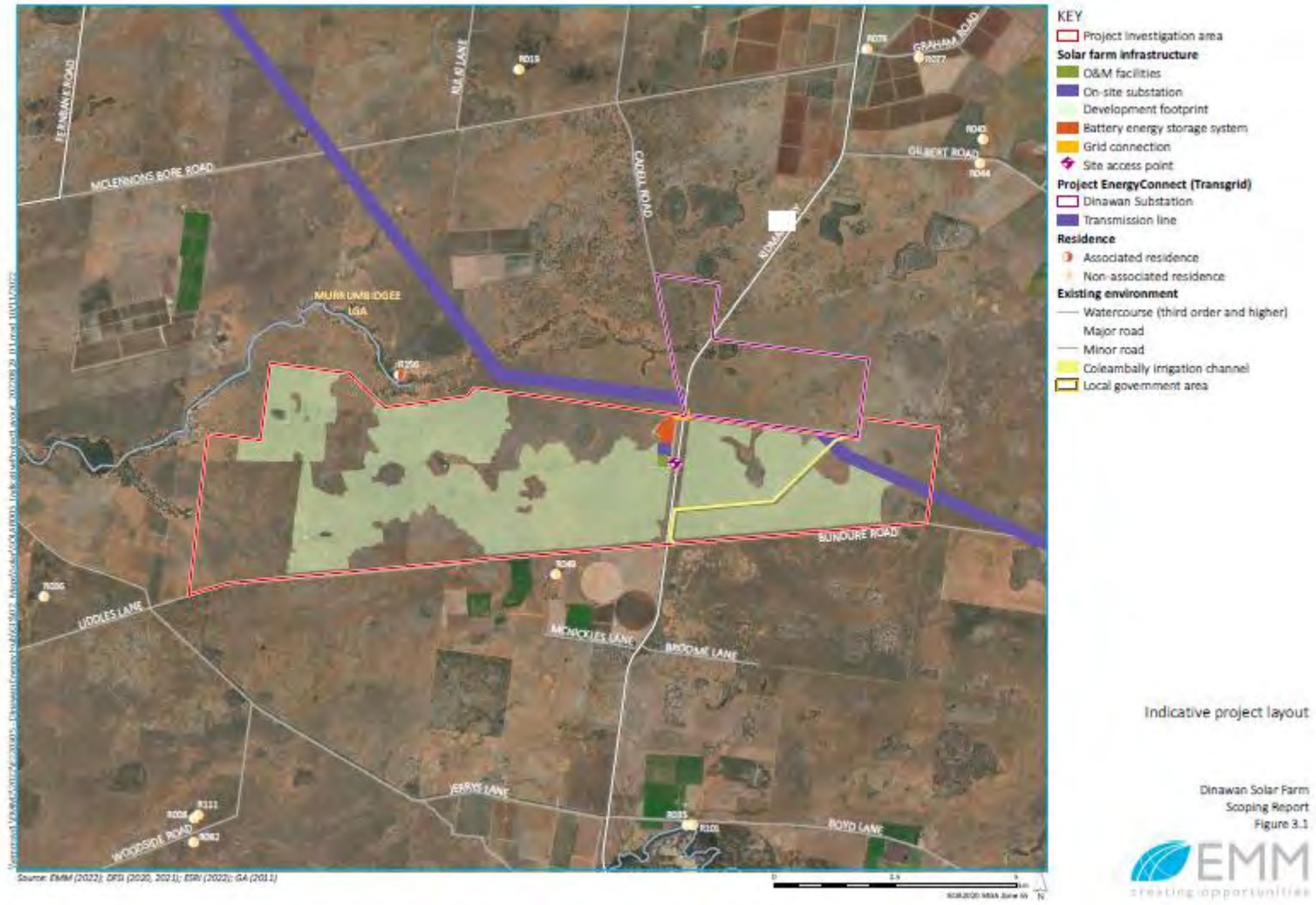


Figure 2.1 Project elements

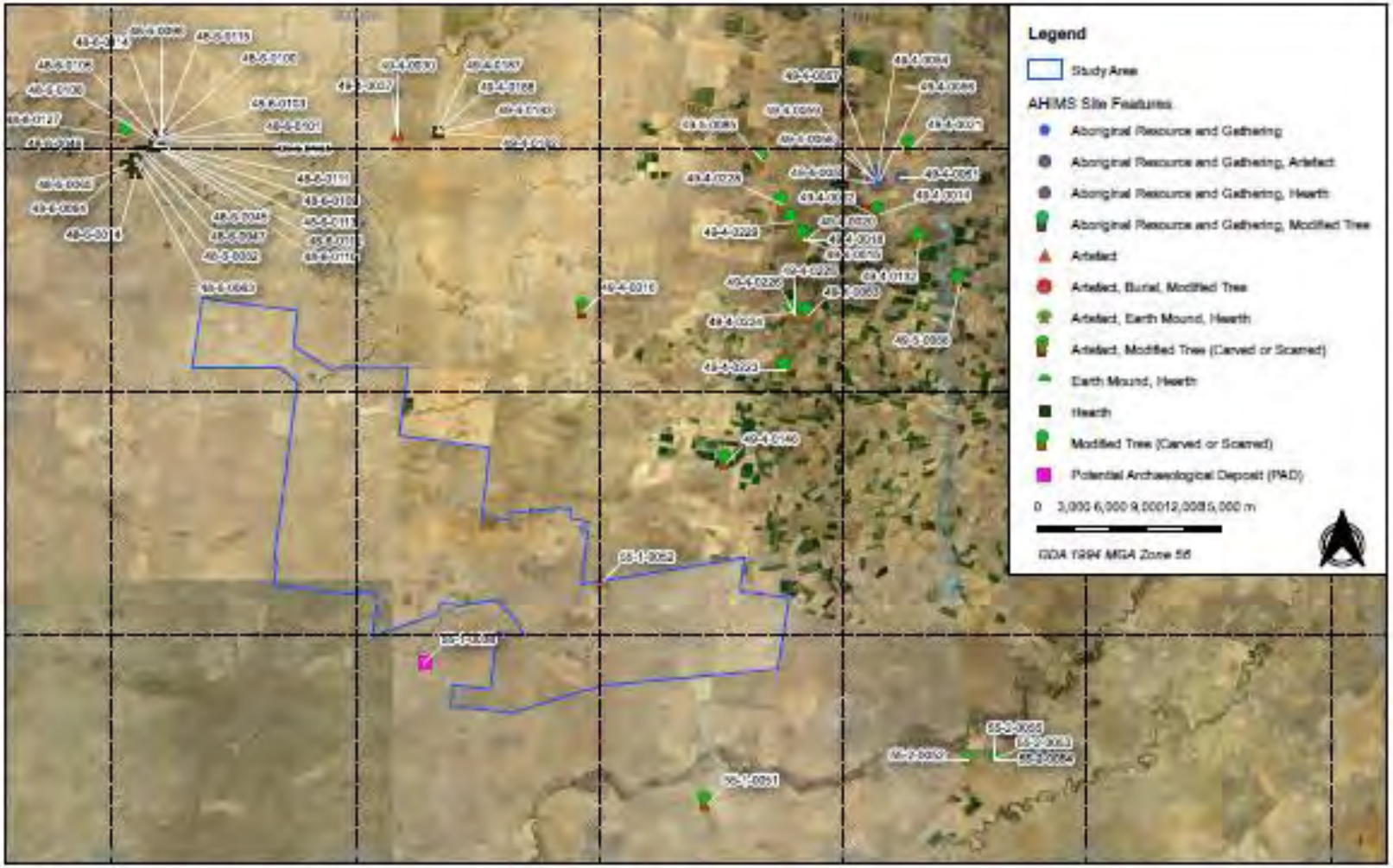


Figure 3 AHIMS site locations in relation to the study area

21101 Dinawan Energy Hub

Source: NSW LPI, AHIMS *Drawn by: WA Date: 2021-08-25*

AUSTRAL ARCHAEOLOGY

Plate 2.1 The AHIMS data as presented in Austral's (2021) initial assessment of the study area.

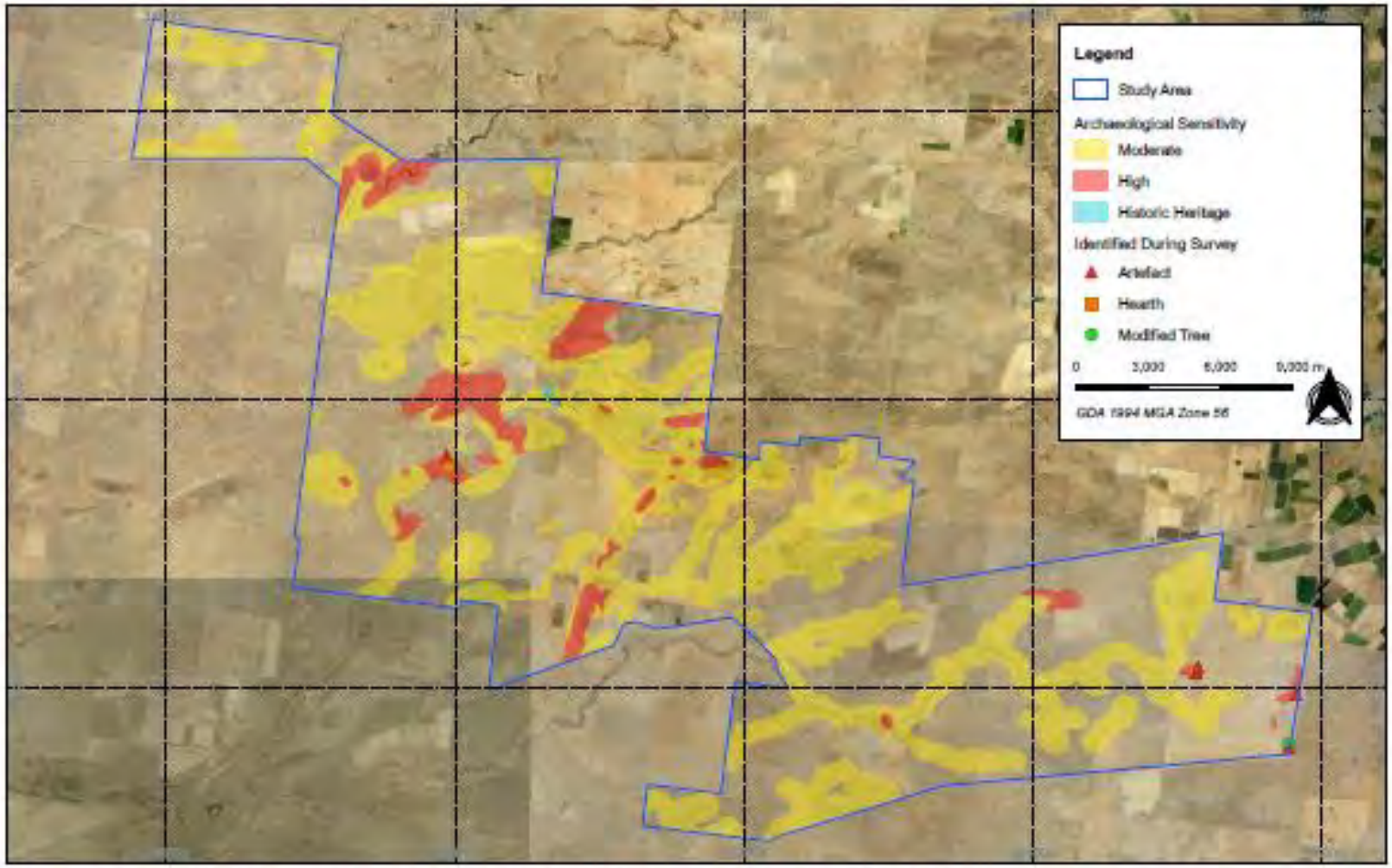


Figure 7 Archaeological sensitivity evident within the study area with ground truthing

21101 - Dinawan Energy Hub ACHDDA

Source: NSW LPI Aerial *Drawn by: WA Date: 2021-09-28*

AUSTRAL ARCHAEOLOGY

Plate 2.2 An archaeological predictive model of the study area as proposed by Austral (2021).

3 Aboriginal Stakeholder engagement

In accordance with the consultation process, EMM contacted a number of State and Commonwealth government organisations to provide information on Aboriginal individuals and organisations known to participate in cultural heritage management in the relevant LGAs. This was undertaken in November and December 2022. Once this information was obtained, a process of notifying these individuals and organisations was undertaken. This included distribution of letters advising them of the project in early December 2022, and publication of the project in several newspapers across the project study area and nationally.

Following this notification process undertaken between 9 December 2022 and 1 January 2023, the following Aboriginal stakeholders have expressed an interest in being involved in the project:

- Griffith Local Aboriginal Land Council;
- Bundyi Cultural Knowledge and Tours;
- Yarkuwa Indigenous Knowledge Centre;
- Bidya Marra Consultancy;
- Bangarang Aboriginal Corporation;
- Roley Williams; and
- Kevin Atkinson.

In accordance with Heritage NSW guidelines, these stakeholders are referred to as Registered Aboriginal Parties (RAPs) in subsequent documentation and communication for the project.

The roles, functions and responsibilities of all stakeholders involved in the consultation process are outlined in Table 3.1**.**

The information and feedback relevant to this project assessment we are currently requesting from RAPs is detailed in Section 5 of this letter.

Table 3.1 Roles and responsibilities

RAPs	Provide cultural perspectives, views, knowledge and advice to EMM. Indicate areas of cultural significance. Provide Aboriginal sites representatives for archaeological fieldwork (if desired, and representatives are suitably qualified and insured). Have an awareness and understanding of the commercial environment and constraints in which the applicant operates. Demonstrate awareness and understanding of the opportunities to provide input into the ACHA and management recommendations for the continued design, construction and operation of the project. Identify, raise, and discuss cultural concerns, perspectives and assessment requirements (if any).
EMM	Undertake the ACHA in accordance with the relevant policies, legislation and guidelines, including coordinating and directing the fieldwork. Facilitate the Aboriginal consultation process. Consider the cultural perspectives, views, knowledge and advice of the RAPs in assessing cultural significance and developing management measures. Provide clear management measures that comply with relevant legislation, guidelines and significance.

Table 3.1 Roles and responsibilities

All stakeholders	Mutual respect (each person has the right to have a say and be heard) Communicate in a professional manner.

4 Assessment methodology

4.1 Overview

As the project is declared as SSD under Part 4 (Division 4.7) of the EP&A Act, additional approvals for impacts to Aboriginal Heritage typically required under the *National Parks and Wildlife Act 1974* do not apply. However, the SEARs for the project, issued on 14 December 2022, require that an assessment of impacts to Aboriginal cultural heritage items (ie an ACHA) be prepared for the project in accordance with the Heritage NSW guidelines. These typically include:

- *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (the Code of Practice) (DECCW 2010a);
- *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (DECCW 2010b); and
- *Aboriginal Consultation Requirements for Proponents 2010* (DECCW 2010c).

The purpose of the ACHA is to describe any Aboriginal cultural heritage sites and values within the study area, identify the potential impacts that the project may have on these sites and values, and detail mitigation measures for the avoidance, minimisation and management of any impacts to identified Aboriginal cultural heritage sites and values. the preparation of the ACHA will involve:

- consultation with RAPs to identify socio-cultural values of the project study area and places of special significance that should be considered.
- a review of past Aboriginal heritage reports covering the study area to further understand the location, nature and survivability of cultural materials in a given area, and how this may extrapolate into a project study area;
- a review of the existing environment and environmental characteristics of the project footprint to identify past Aboriginal resources and suitable occupation areas. The presence of certain landforms and landscapes are critical in determining the potential presence of Aboriginal cultural materials (e.g. proximity to water), while the last 200 years of activity often have resulted in disturbance and loss of such materials. This review will provide an understanding of both the current conditions, but also the historical evolution of the project study area;
- archaeological field survey to ground-truth the predictive model, and to identify previously documented and undocumented cultural heritage;
- archaeological test excavation of areas of potential archaeological deposits (PAD) and based on the findings of the archaeological survey and existing information (Plate 2.2);
- an assessment of significance for Aboriginal cultural heritage sites values in the project study area (with input from the registered Aboriginal stakeholders);
- an assessment of the potential impacts that construction and operation of the project may affect Aboriginal cultural heritage sites and values in the project study area; and

- development of mitigation measures based on the results of the impact assessment and input from registered Aboriginal stakeholders during the consultation process and particularly from the draft ACHA review period. The mitigation measures would detail how the project would aim to avoid, minimise and manage the potential impacts of the project on Aboriginal cultural sites and values in the project study area.

4.2 Archaeological field survey

Archaeological field survey of the study area will be undertaken to identify any extant Aboriginal objects or sites and cultural values present. Field survey will be attempted across the entire study area and focus on those landforms that the predictions outlined in Section 2.3 (and subsequent desktop information) indicate have the highest potential for cultural materials to be present. Given the large size, it is probable that the entire study area may not be achieved in the proposed field program, and where this eventuates focus on the proposed impact footprints would be prioritised.

Surface investigation will consist of the survey team evenly spaced (10-20 m apart) walking transects across accessible parts of the study area. At this stage, a team of 5-7 people are proposed to undertake this work for a period of up to four weeks. Assuming 8-10 km per day is investigated, this would total transects of 160-200 km across the study area. Following these investigations, consideration of whether additional time is required prior to, or following, the EIS if substantive areas remain un-investigated at the completion of the proposed program.

The focus of the archaeological field survey will be to both investigate soil exposures for extant Aboriginal objects and identify landforms that have potential for cultural material to be present (either in surface or subsurface deposits). A focus will also be on other site types, with hearths, modified trees, shell middens and fish traps all known to be present in the region. All Aboriginal objects and/or landforms of interest would be mapped and documented using hand-held GPS, photographs, sketches and/or written description.

Where possible, a significant focus of the survey will be to discuss intangible values associated with the project study area, such as connection to other cultural places, stories, view-lines, contemporary values, etc.

The archaeological field survey will be undertaken in accordance with Requirements 5 to 10 of the Code of Practice. In summary, the Code of Practice requires the following general methodology:

- Pedestrian survey of the project study area.
- Recording of beginning and end points of transects or the boundaries of survey units, and the spacing between survey personnel.
- Recording of landform, soil information, land surface, vegetation conditions, visibility and exposure, and survey coverage.
- Recording of any identified Aboriginal sites identified according to Requirements 6-8, and recording of any identified Aboriginal objects in accordance with Requirements 18-24 of the Code of Practice. This would include the spatial location, photographs and sketches, and written description of any identified sites, such as culturally modified trees, artefact sites, etc.
- If any Aboriginal objects and/or sites are identified in the course of the survey, site cards will be completed and submitted to the AHIMS registrar.
- In the event of Aboriginal heritage being identified within the project footprint, undertake discussions on site as to the potential further investigation and/or management of these finds. Where sites are considered of high archaeological and/or cultural value, further characterisation, consideration of avoidance and re-design would be explored with the registered Aboriginal parties. Appropriate mitigation measures would be developed in consultation with the Registered Aboriginal Parties and Heritage NSW for any potential unavoidable impacts.

4.3 Test excavations

The project has potential to disturb ground that intersects a number of landforms where buried cultural material is considered probable (Plate 2.2). These areas of sensitivity both proposed by Austral (2021) (Plate 2.2) and additional desktop information would be validated and refined by the field survey (Section 4.2). Subsequent areas of moderate and high archaeological potential that intersect with the proposed development footprint would be subject to test excavations. The test excavations would consist of the following approach and methods:

All test excavations would adopt the Heritage NSW Code of Practise methods, and include the following:

- all test excavation pits would be spatially located using a differential GPS device, which would also provide elevation data;
- manual excavation of 0.25m² (50 x 50 cm) test pits in a systematic grid across areas of archaeological interest within the impact footprint. The spatial resolution of the grid would be dependent on on-ground conditions but would typically have test pits between 10-40 m apart, with high resolution in areas of identified cultural materials and/or high potential, with lower resolution in areas of moderate potential. Additional in-filling of this initial grid of test pits and/or the expansion of test pits (up to 3m^2) may be undertaken to further resolve any uncertainties about the cultural deposits.;
- excavation would use hand tools. Excavation of the first unit would be in 5 cm spits, with subsequent excavation allowed in 10 cm spits or according to stratigraphy (whichever is smallest) depending on the results of the first unit. Manual excavation would continue to either: i) the base of the cultural deposits; ii) to the depth of the underlying geology; or iii) to the maximum depth possible via hand excavation (likely ~50 cm);
- sieving of all manually excavated material through a 5 mm sieve;
- reduced levels of the top and bottom of the test pit would be documented using a dumpy level against a known elevation. Other levels may be taken as required;
- soil profiles would be recorded in accordance with the Code of Practice, including scaled drawings, photographs, and written descriptions;
- soil samples may be collected for description, sedimentological and chronological analysis where such analysis is considered likely to contribute significant information; and excavation procedures and protocols may be modified at the discretion of the Excavation Director, in consultation with the Aboriginal stakeholders and the proponent as the conditions in the field and nature of the excavations develop. This includes the movement of test pits to avoid existing built structures, buried services and disturbances not identified during the desktop phase.

4.4 Timeframes

The following indicative timeframes would apply:

- Distribution of this document to registered Aboriginal stakeholders: **23 January 2023**
- Field survey of the study area: commence mid-late February 2023
- If required: test excavations of the study area: March – April 2023
- Distribution of the draft ACHA report for RAP review and comment: June 2023
- Input into recommendations and review of draft report by RAPs: June 2023; and
- Report finalisation: July 2023.

5 What we need from you

In addition to the archaeological evidence described above, Aboriginal heritage incorporates a wide range of values such as stories, traditions and cultural practices. EMM welcomes advice from the Aboriginal community about cultural values (which might include archaeological sites or other types of values) relevant to the study area and its surrounds. EMM is relying on the Aboriginal community for advice on nonarchaeological and intangible Aboriginal values for the study area. We are happy to discuss any information which you are willing to share and will respect confidentiality where requested.

EMM would appreciate your feedback on the above methodology proposed for the investigation and assessment of the study area. In responding, please also consider the following questions:

- Are there any other knowledge-holders or traditional owner groups we should be contacting to obtain cultural information on this area?
- Are there any protocols in relation to community interaction and/or cultural heritage that you would like adopted during the project?
- Are you aware of any Aboriginal objects, places, sites or stories of cultural significance and/or importance that you are aware of within the study area? If so, please advise us how you wish them to be dealt with during the project.
- Are you aware of any past or current fishing and hunting activities within the project study area? Do you have any views on how these should be managed into the future?
- Is the information you are providing sensitive, gender specific, etc? If so, how would you like the information you provide to EMM to be managed? Noting that some documentation for the ACHA process will be required.
- Do you require any further information prior to EMM proceeding with the ACHA investigations?
- In your response, can you please also clearly identify who you would like EMM to talk to within your organisation, and provide contact details for these individuals. Please also ensure your preferred method of communication (eg telephone call, e-mail, letter etc) is highlighted for subsequent stages of the project.

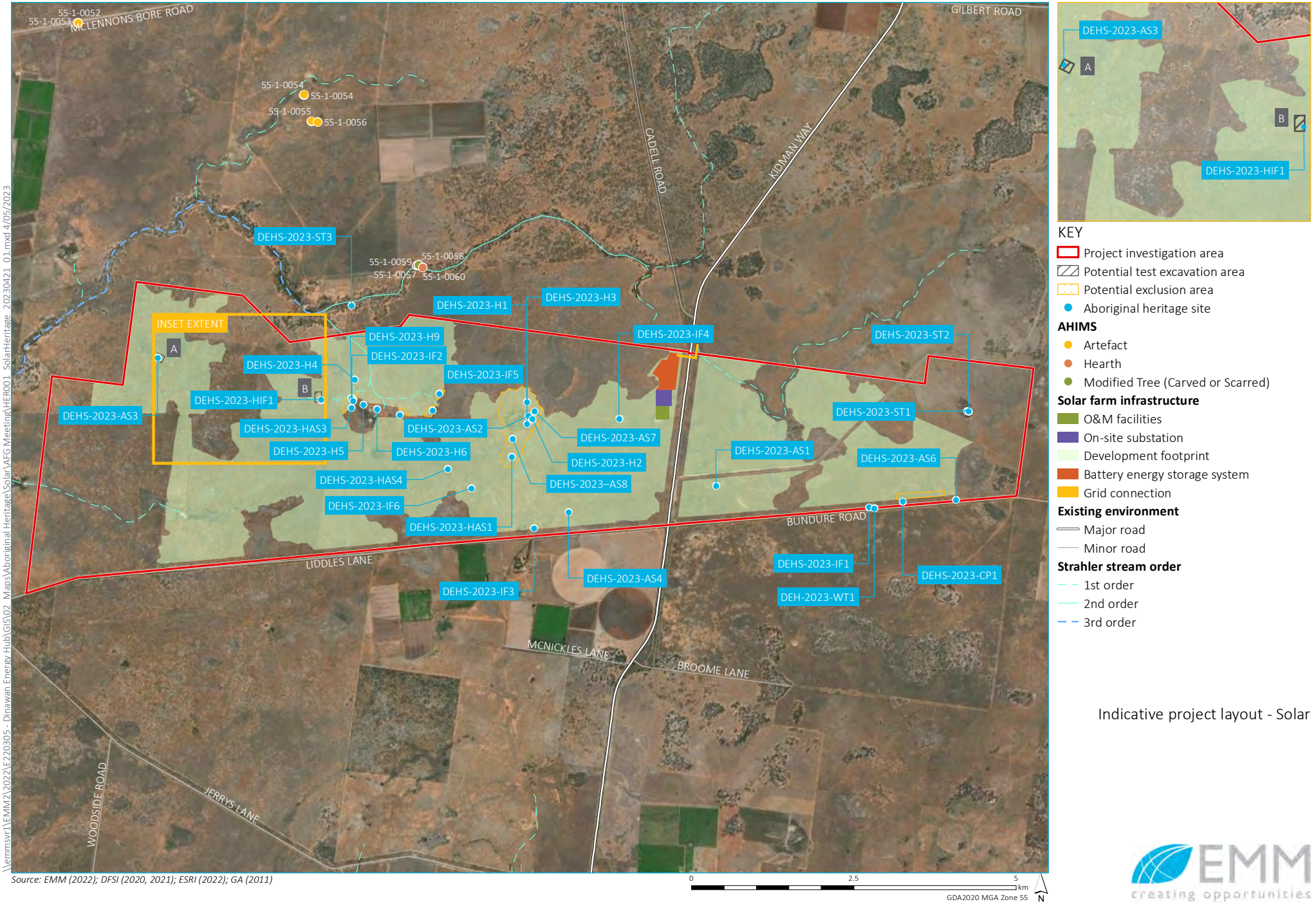
6 Closing

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Please feel free to contact me with any questions.

Yours sincerely

Dr Alan Williams FSA FRSA MAACAI
Associate Director
awilliams@emmconsulting.com.au



KEY

- Project investigation area
- Potential test excavation area
- Potential exclusion area
- Aboriginal heritage site

AHIMS

- Artefact
- Hearth
- Modified Tree (Carved or Scarred)

Solar farm infrastructure

- O&M facilities
- On-site substation
- Development footprint
- Battery energy storage system
- Grid connection

Existing environment

- Major road
- Minor road

Strahler stream order

- 1st order
- 2nd order
- 3rd order

Indicative project layout - Solar

\\emmsvr1\EMM2\2022\E220305 - Dinawan Energy Hub\GIS\02_Maps\Aboriginal Heritage\Solar\AFG Meeting\HER001_SolarHeritage_20230421_01.mxd 4/05/2023

Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

0 2.5 5 km

GDA2020 MGA Zone 55

N

EMM creating opportunities

Meg Ferrier

From: Alan Williams
Sent: Thursday, 4 May 2023 4:27 PM
To: Alan Williams
Cc: Taylar Reid; David Richards; Megan Sheppard Brennand
Subject: Proposed Dinawan Solar Farm - ACH - test excavations
Attachments: HER001_SolarHeritage_20230504_10.pdf

Dear All,

Thank you for your ongoing involvement with the proposed Dinawan Solar Farm. I understand from Taylar that the field survey out there is progressing well, and a few interesting sites and places are being found.

As we mentioned during our previous Aboriginal focus group meeting/s, and various provided documentation, one of the aims of the survey is to identify the need for, and the location of, test excavations where sub-surface cultural material may be present. The field team identified four areas, mostly lunettes, that were considered to have potential for subsurface material. Of these, two are proposed to be avoided through project re-design, the remaining two (A + B) in the attached figure are proposed for test excavations later in May.

The methodology for these works was outlined in our original methodology document in January and in discussions at the various meetings. However, the exact excavation locations were quite large, reflecting the desktop information available at that time, this attached figure provides the refined locations based on the field survey. Localised investigation of some of the identified sites, such as hearths may also be investigated in discussion with yourselves during the field program. The excavations would adopt Heritage NSW guidelines requirements and include small manually dug test pits across these areas, with sediment sieved through a mesh for cultural materials.

Taylar and the team will be in touch to discuss the logistics of this component of work, which I believe is being led by Megan (cc'ed here).

Happy to discuss

Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

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T 02 9493 9500
M 0438 104 740
D 02 9493 9584
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SYDNEY | Ground floor, 20 Chandos Street, St Leonards NSW 2065

Associate Investigator
ARC Centre of Excellence for Australian Biodiversity and Heritage (CABAH)
University of New South Wales
Sydney, NSW 2052

Adjunct Senior Lecturer
School of Biological, Earth and Environmental Sciences
University of New South Wales,
Sydney, NSW 2052

Industry Fellow
Institute of Sustainable Futures
University Technology Sydney
Ultimo, NSW 2007

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Meg Ferrier

From: Alan Williams
Sent: Thursday, 4 May 2023 1:33 PM
To: OEH HD Heritage Mailbox
Cc: Kym McNamara Heritage NSW; Nicole.Davis@environment.nsw.gov.au; David Richards; Taylar Reid
Subject: Dinawan Solar Farm - ACH - test excavation notification
Attachments: HER001_SolarHeritage_20230504_10.pdf; E220305_Methods_Solar_V1.0_Final.pdf

Dear Kym, Nic and ACH Team,

In accordance with Requirement 15 of the Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW, we wish to advise that EMM Consulting Pty Ltd is proposing to undertake Aboriginal archaeological test excavations for Dinawan Solar Farm (SSD-50725959) between 22 May 2023 and mid-June 2023.

Further details of these excavations are included in the attached documentation (refer Section 4.3 provided to the RAPs on 23 January 2023) and supplemented with the attached figure on 4 May 2023, which identifies potential extent of test excavation (A and B) within the proposed development footprint.

Test pits may also be undertaken at select Aboriginal sites identified within the development footprint to confirm validity of some site types should it be required.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

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D 02 9493 9584
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Associate Investigator
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Meg Ferrier

From: Morgan Wilcox
Sent: Monday, 23 January 2023 4:26 PM
To: admin@bacch.org.au
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 2/3 Consultation
Attachments: E220305_Methods_Solar_V1.0_Final.pdf

Dear Kim (Bangarang Aboriginal Corporation),

Thank you for registering to be consulted for the Dinawan Energy Hub Project.

The project comprises two separate (but related) development applications: a solar farm; and a wind farm.

The attached document relates to the **proposed solar farm**.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

Written feedback can be provided to:
Dr Alan Williams
1/20 Chandos Street, St Leonards, NSW 2065
awilliams@emmconsulting.com.au

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Kind regards,
Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division

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M 0436 443 205
D 02 4907 4821
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Meg Ferrier

From: Morgan Wilcox
Sent: Monday, 23 January 2023 4:24 PM
To: williamsroley14@gmail.com
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 2/3 Consultation
Attachments: E220305_Methods_Solar_V1.0_Final.pdf

Dear Roley,

Thank you for registering to be consulted for the Dinawan Energy Hub Project.

The project comprises two separate (but related) development applications: a solar farm; and a wind farm.

The attached document relates to the **proposed solar farm**.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

Written feedback can be provided to:
Dr Alan Williams
1/20 Chandos Street, St Leonards, NSW 2065
awilliams@emmconsulting.com.au

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Kind regards,
Morgan

Morgan Wilcox
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Meg Ferrier

From: Morgan Wilcox
Sent: Monday, 23 January 2023 4:23 PM
To: Mark Saddler
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 2/3 Consultation
Attachments: E220305_Methods_Solar_V1.0_Final.pdf

Dear Mark (Bundyi Cultural Knowledge and Tours),

Thank you for registering to be consulted for the Dinawan Energy Hub Project.

The project comprises two separate (but related) development applications: a solar farm; and a wind farm.

The attached document relates to the **proposed solar farm**.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

Written feedback can be provided to:
Dr Alan Williams
1/20 Chandos Street, St Leonards, NSW 2065
awilliams@emmconsulting.com.au

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Kind regards,
Morgan

Morgan Wilcox
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Meg Ferrier

From: Morgan Wilcox
Sent: Monday, 23 January 2023 4:22 PM
To: david.crew@yarkuwa.org.au
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 2/3 Consultation
Attachments: E220305_Methods_Solar_V1.0_Final.pdf

Dear David (Yarkuwa Indigenous Knowledge Centre),

Thank you for registering to be consulted for the Dinawan Energy Hub Project.

The project comprises two separate (but related) development applications: a solar farm; and a wind farm.

The attached document relates to the **proposed solar farm**.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

Written feedback can be provided to:
Dr Alan Williams
1/20 Chandos Street, St Leonards, NSW 2065
awilliams@emmconsulting.com.au

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Kind regards,
Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division

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Meg Ferrier

From: Morgan Wilcox
Sent: Monday, 23 January 2023 4:21 PM
To: 'ingram.james1959@gmail.com'
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 2/3 Consultation
Attachments: E220305_Methods_Solar_V1.0_Final.pdf

Dear James (Bidya Marra Consultancy),

Thank you for registering to be consulted for the Dinawan Energy Hub Project.

The project comprises two separate (but related) development applications: a solar farm; and a wind farm.

The attached document relates to the **proposed solar farm**.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

Written feedback can be provided to:
Dr Alan Williams
1/20 Chandos Street, St Leonards, NSW 2065
awilliams@emmconsulting.com.au

As previously discussed with Alan, can you please forward the attached information on to Bruce Crowe, Jason Crowe, Joel Crowe, Mitchell Crowe, Brandon Crowe, and Robert Penngelly.

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Kind regards,
Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division

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Meg Ferrier

From: Morgan Wilcox
Sent: Monday, 23 January 2023 4:18 PM
To: grifflalc@bigpond.com
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 2/3 Consultation
Attachments: E220305_Methods_Solar_V1.0_Final.pdf

Dear Griffith LALC,

Thank you for registering to be consulted for the Dinawan Energy Hub Project.

The project comprises two separate (but related) development applications: a solar farm; and a wind farm.

The attached document relates to the **proposed solar farm**.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

Written feedback can be provided to:
Dr Alan Williams
1/20 Chandos Street, St Leonards, NSW 2065
awilliams@emmconsulting.com.au

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Kind regards,
Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division

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Meg Ferrier

From: Morgan Wilcox
Sent: Monday, 23 January 2023 4:28 PM
To: kevin.a@ahvic.org.au
Cc: Alan Williams
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 2/3 Consultation
Attachments: E220305_Methods_Solar_V1.0_Final.pdf

Dear Kevin,

Thank you for registering to be consulted for the Dinawan Energy Hub Project.

The project comprises two separate (but related) development applications: a solar farm; and a wind farm.

The attached document relates to the **proposed solar farm**.

This document forms part of the formal Aboriginal consultation requirements for the project, as described in sections 4.2 (Stage 2) and 4.3 (Stage 3) of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

Written feedback can be provided to:
Dr Alan Williams
1/20 Chandos Street, St Leonards, NSW 2065
awilliams@emmconsulting.com.au

We look forward to receiving any response your organisation wishes to make about the proposed method by **20 February 2023** (28 days from distribution). Your response will be documented and considered in the assessment. Most importantly, your cultural information is also welcome within this timeframe; but it can also be submitted up until the completion of the draft ACHA.

Kind regards,
Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division

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From:	Stephen Young
To:	Morgan Wilcox
Subject:	RE: Dinawan Energy Hub Project - Solar Farm - Stage 1 Consultation
Date:	Tuesday, 24 January 2023 1:44:24 PM
Attachments:	image004.png image005.png image006.png image007.png

CAUTION: This email originated outside of the Organisation.

Hi Morgan,

The Griffith LALC is enacted through the ALRA 1983 to promote and protect all Aboriginal Cultural Heritage matters located within our defined boundaries, in which I can confirm that the Dinawan Energy Hub Project – Solar Farm – Stage One is located within our boundaries, therefore we ask that EMM acknowledge and accept local Aboriginal engagement protocols via directly working with only Griffith LALC and its Aboriginal Cultural Heritage Officers of whom are also Members of the GLALC.

I can confirm that all other listed registered Aboriginal parties do not have an association with the area, and are not recognised for the same.

If you need to discuss please don't hesitate to contact me on mobile no 0411889212.

Regards

Stephen Young
CEO

Griffith Local Aboriginal Land Council
P.O Box 8043 East Griffith NSW
5 Wiradjuri Pl, Griffith NSW 2680
Ph: (02) 69626711
Fax: (02) 69641477
Email: grifflalc@bigpond.com

From: Morgan Wilcox <mwilcox@emmconsulting.com.au>
Sent: Tuesday, 24 January 2023 11:51 AM
To: heritagemailbox@environment.nsw.gov.au; grifflalc@bigpond.com; CEO@CummeraLALC.com.au
Cc: Alan Williams <awilliams@emmconsulting.com.au>
Subject: Dinawan Energy Hub Project - Solar Farm - Stage 1 Consultation

Dear Heritage NSW, Griffith LALC, Cummeragunja LALC,

EMM Consulting Pty Limited on behalf of Spark Renewables is undertaking an Aboriginal cultural heritage assessment of the proposed Dinawan Energy Hub (the project). The project comprises of two separate development applications: a solar farm; and a wind farm. Separate (but concurrent) consultation processes per development application are being undertaken in accordance with Heritage NSW consultation guidelines.

The attached documents (listed below) relate to the **proposed solar farm** and are provided as per item 4.1.6 of the consultation guidelines:

- Example notification letter sent to Aboriginal parties; and
- Newspaper adverts which appeared in the Narrandera Argus, The Area News and Weekend Advertiser.

Aboriginal people/organisations who have registered to be consulted for the project (solar farm) are listed below:

- Griffith Local Aboriginal Lands Council (Stephen Young)
- Yarkuwa Indigenous Knowledge Centre (David Crew)
- Bundyi Aboriginal Cultural Knowledge and Tours (Mark Saddler)
- Bangarang Aboriginal Corporation (Kim and Kevin Atkinson)
- Roley Williams
- Bidya Marra Consultancy (James Ingram and the following affiliated individuals Bruce Crowe, Jason Crowe, Joel Crowe, Mitchell Crowe, Brandon Crowe, and Robert Penngelly)

Kind regards,
Morgan

Morgan Wilcox
Associate Archaeologist / Aboriginal Heritage Team Lead
Bushfire, Ecology, Heritage and Spatial Solutions Division

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B.5 Stage 4 – Aboriginal feedback of the draft ACHA

See Section 2.4 for a summary of comments.

From:	Mark Saddler
To:	Alan Williams; Samuel Elias; Taylar Reid
Subject:	Mark Saddler
Date:	Wednesday, 17 May 2023 3:43:24 PM
Attachments:	A5A86E1FF20641189B266CADD4087191.jpg 94647E54152F48F9A7D74C40BF0DA09F.jpg Dinawan Solar Report 17.5.2023.pdf

CAUTION: This email originated outside of the Organisation.

Yamma Biyambul Mayiny !
(Hello All People)

Please find attached my report for Dinawan Solar Farm.

I will download all my drone videos to Sam next week, via his hard drive.

Guwayu (Safe Travels)

Mark Saddler,
Cultural Awareness,
School & Tour Programs,
Bundyi Cultural Tours,
Web Page: www.bundyiculture.com.au
Facebook Page: https://www.facebook.com/WiradjuriMob/
You Tube Channel:
https://www.youtube.com/channel/UCqQObJ3e8u_WoV7N9xZ2JzA
Ph 0412 693 030

"I respectfully acknowledge the traditional custodians of our land, My Wiradjuri people !

"Always Was, Always Will Be"

Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering.
https://www.mailguard.com.au/mg

Report this message as spam

Bundyi Cultural Services

Mark Saddler

Dinawan Solar Farm, Coleambally, NSW

Bundyi Cultural Services, Mark Saddler

17/05/2023

Artwork by Mark Saddler. (Copyright)

Artwork Title, Murrawarra (stand your ground, protect)

Back Ground Artwork "Ngumbaay Bula Bila Mayiny (3 River people)

Mark Saddler

This report was compiled by Bundyi Cultural Services.

Contents:

Page 1: Title Page.
Page 2: Contents, Acknowledgement.
Page 3: Travelling Stock Reserves (TSRs)
Page 4: Objectives, Objects.
Page 5: Due Diligence.
Page 6: Due Diligence Flow Chart.
Page 7: AHIMS Data Base Search.
Page 8: Site Location Maps.
Page 9: Site Recordings, Site Information.
Page 10: Contact Information.
Page 11: Site Report and Recommendations.
Page 12: References and End Report

"I acknowledge the traditional custodians of this land, our land, "The Wiradjuri People".

What I record and find is dedicated to those who have gone before us, to those present and to those who will follow us".

Mark Saddler, Wiradjuri Gibirr (man)

Travelling Stock Reserves (TSRs)

Travelling Stock Reserves (TSRs) are parcels of Crown land reserved under legislation for use by travelling stock. Local Land Services is responsible for the care, control and maintenance of almost 500,000ha of TSRs in NSW.

TSRs provide pasture reserves for travelling or grazing stock. These reserves can be beneficial in times of drought, bushfire or flood. They are also used for public recreation, apiary sites and for conservation.

Local Land Services manages the land to strike a balance between the needs of travelling or grazing stock and the conservation of native species.

The role of Local Land Services role in managing TSRs includes:

- *Authorising and monitoring stock, recreation and apiary site use*
- *Controlling noxious weeds*
- *Controlling pest animals and insects*
- *Provision and maintenance of fencing, watering points and holding yards*
- *Consideration of land management and animal health legislation.*

Local Land Services has developed the first draft state-wide planning framework for TSRs to support the future management of this land. We are now keen to hear from the public with their opinions on how to manage TSRs in the future. We want to understand the values people hold important for TSRs, including biodiversity and Aboriginal cultural heritage values.

The draft state-wide framework allows for the development of TSR regional management plans to facilitate more consistent and transparent management, resourcing and reporting.

NSW Travelling Stock Reserves Draft State Planning Framework 2016-19
TSR State Planning Framework Fact Sheet
Frequently asked questions

Aboriginal objects:

Aboriginal objects are physical evidence of the use of an area by Aboriginal people. They can also be referred to as 'Aboriginal sites', 'relics' or 'cultural material'.

Aboriginal objects include:

** Physical objects, such as stone tools, Aboriginal-built fences and stockyards, scarred trees and the remains of fringe camps*
** Material deposited on the land, such as middens*
** The ancestral remains of Aboriginal people.*

Handicrafts made by Aboriginal people for sale are ***not*** *'Aboriginal objects' under the NPW Act.*
Known Aboriginal objects and sites are recorded on OEH's Aboriginal Heritage Information Management System (AHIMS). If you find a site you should report it to us.

Protecting Aboriginal objects and places:

You will need to exercise due diligence in determining whether your actions will harm Aboriginal objects. The ***Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW***
http://www.environment.nsw.gov.au/resources/cultureheritage/ddcop/10798ddcop.pdf
This link will explain and provide practical guidance about what due diligence means. Anyone who exercises due diligence in determining that their actions will not harm Aboriginal objects has a defence against prosecution for the strict liability objects offence if they later harm an Aboriginal object.

An Aboriginal Heritage Impact Permit (AHIP) can be issued by OEH under Part 6 of the NPW Act where harm to an Aboriginal object or Aboriginal place cannot be avoided. An AHIP is a defence to a prosecution for harming Aboriginal objects and/or Aboriginal places if the harm was authorised by the AHIP and the conditions of that AHIP were not contravened.

Find out about AHIPs, due diligence and care agreements see ***Information on Aboriginal Heritage Impact Permits.***
http://www.environment.nsw.gov.au/licences/Section87Section90.htm

Purpose of code of practice for Due Diligence.

This code of practice is to assist individuals and organisations to exercise due diligence when carrying out activities that may harm Aboriginal objects and to determine whether they should apply for consent in the form of an Aboriginal Heritage Impact Permit (AHIP). The National Parks and Wildlife Act 1974 (NPW Act) provides that a person who exercises due diligence in determining that their actions will not harm Aboriginal objects has a defence against prosecution for the strict liability offence if they later unknowingly harm an object without an AHIP.

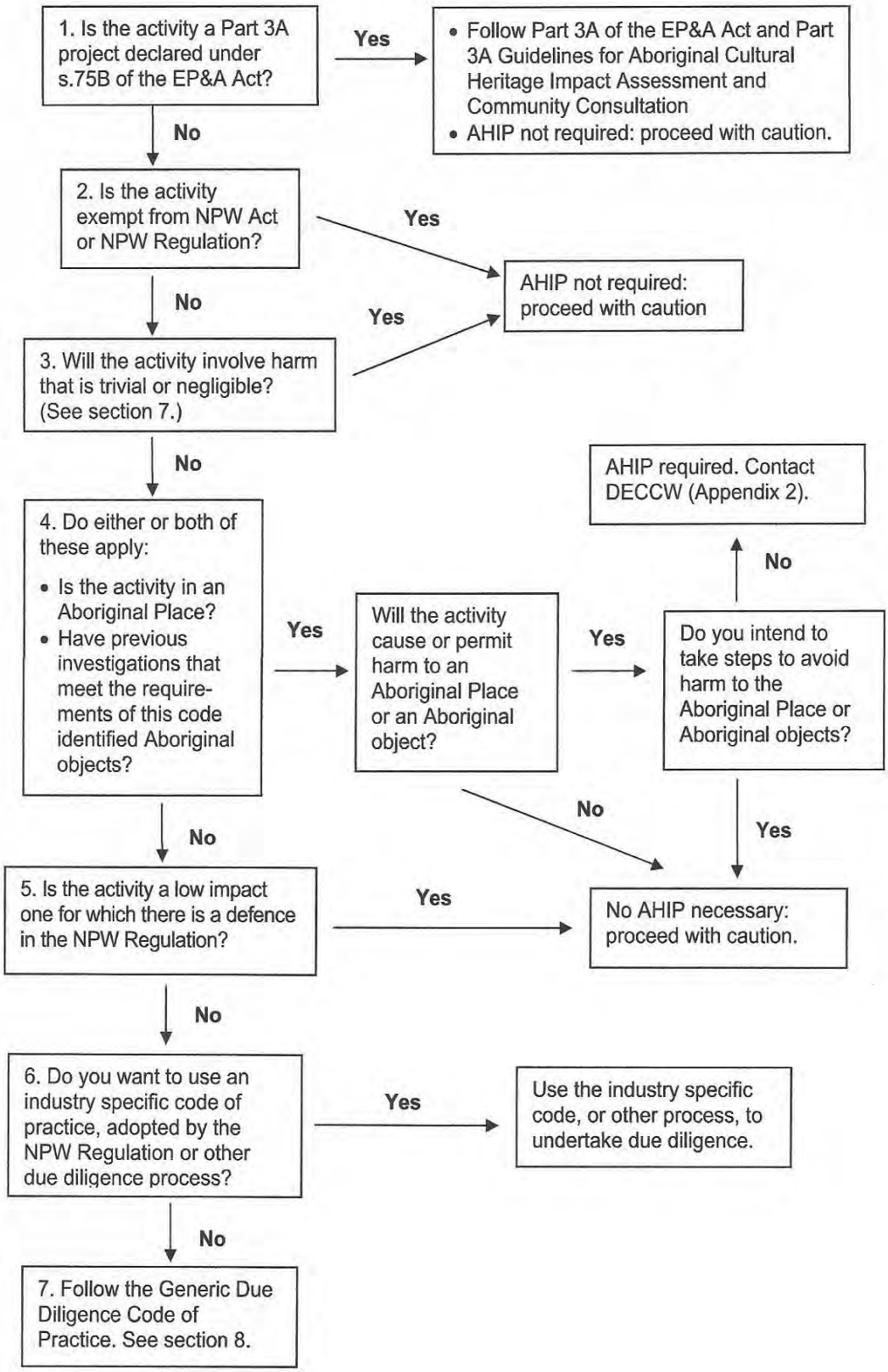
The NPW Act allows for a generic code of practice to explain what due diligence means. Carefully following this code of practice, which is adopted by the National Parks and Wildlife Regulation 2009 (NPW Regulation) made under the NPW Act, would be regarded as 'due diligence'. This code of practice can be used for all activities across all environments.

This code sets out the reasonable and practicable steps which individuals and organisations need to take in order to: 1 identify whether or not Aboriginal objects are, or are likely to be, present in an area 2 determine whether or not their activities are likely to harm Aboriginal objects (if present) 3 determine whether an AHIP application is required.

If Aboriginal objects are present or likely to be present and an activity will harm those objects, then an AHIP application will be required. Information about the permits and how to apply for them can be obtained through the Department of Environment, Climate Change and Water (DECCW) website at

www.environment.nsw.gov.au/licences/index.htm.

1 Do you need to use this due diligence code?



AHIMS Data Base Search.

AHIMS Web Services (AWS)
Search Result

Your Ref/PO Number : 17.5.23

Client Service ID : 782623

Mark Saddler

Date: 17 May 2023

P.O.Box 8005 Kooringal Post Office
Kooringal New South Wales 2650

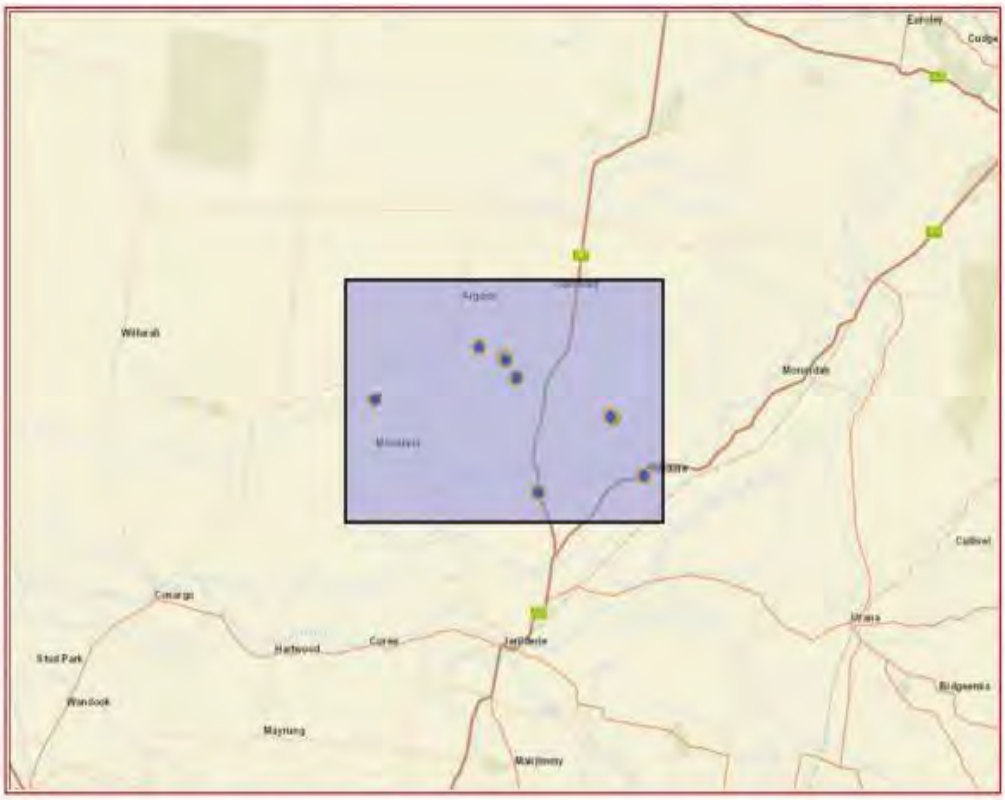
Attention: Mark Saddler

Email: marksad@live.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -35.214, 145.4789 - Lat, Long To : -34.937, 145.9733, conducted by Mark Saddler on 17 May 2023.

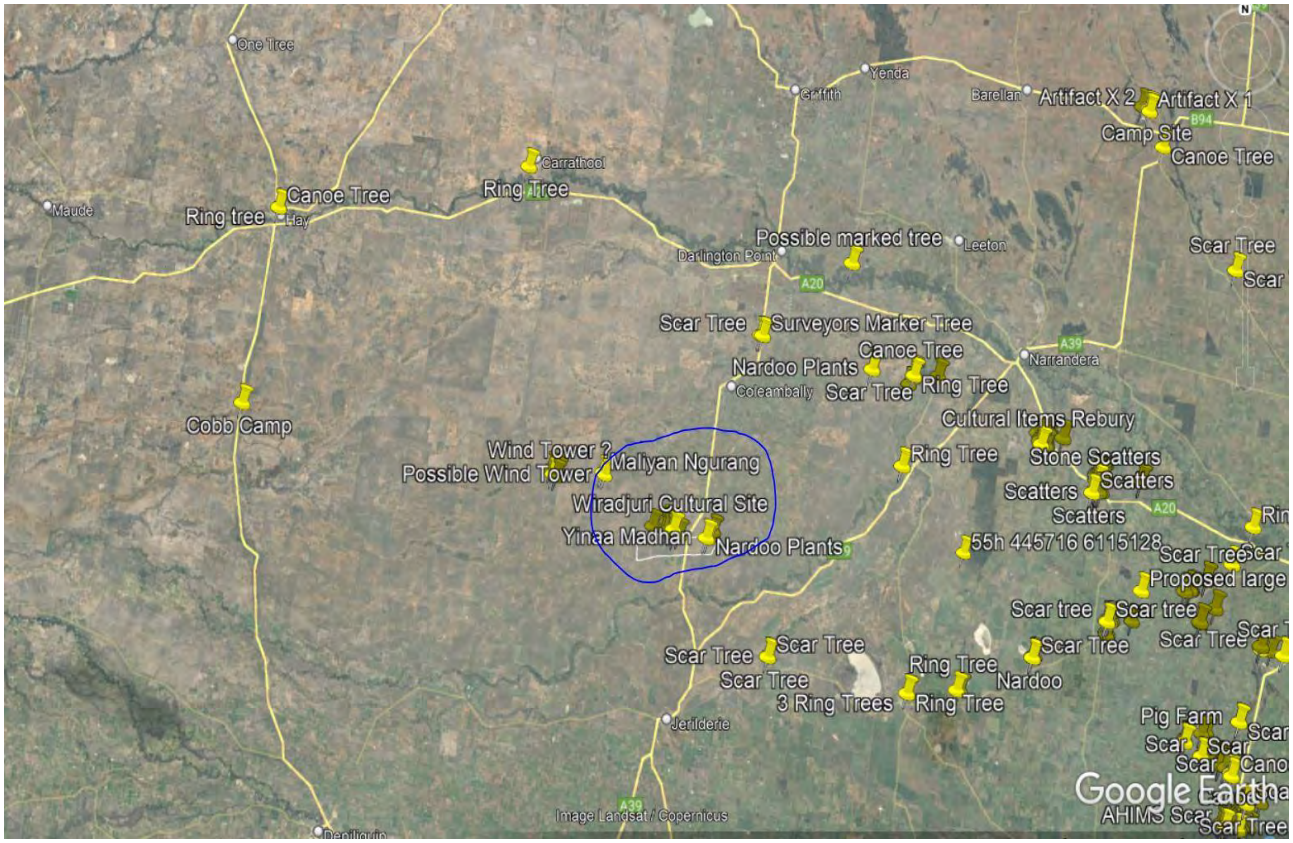
The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.

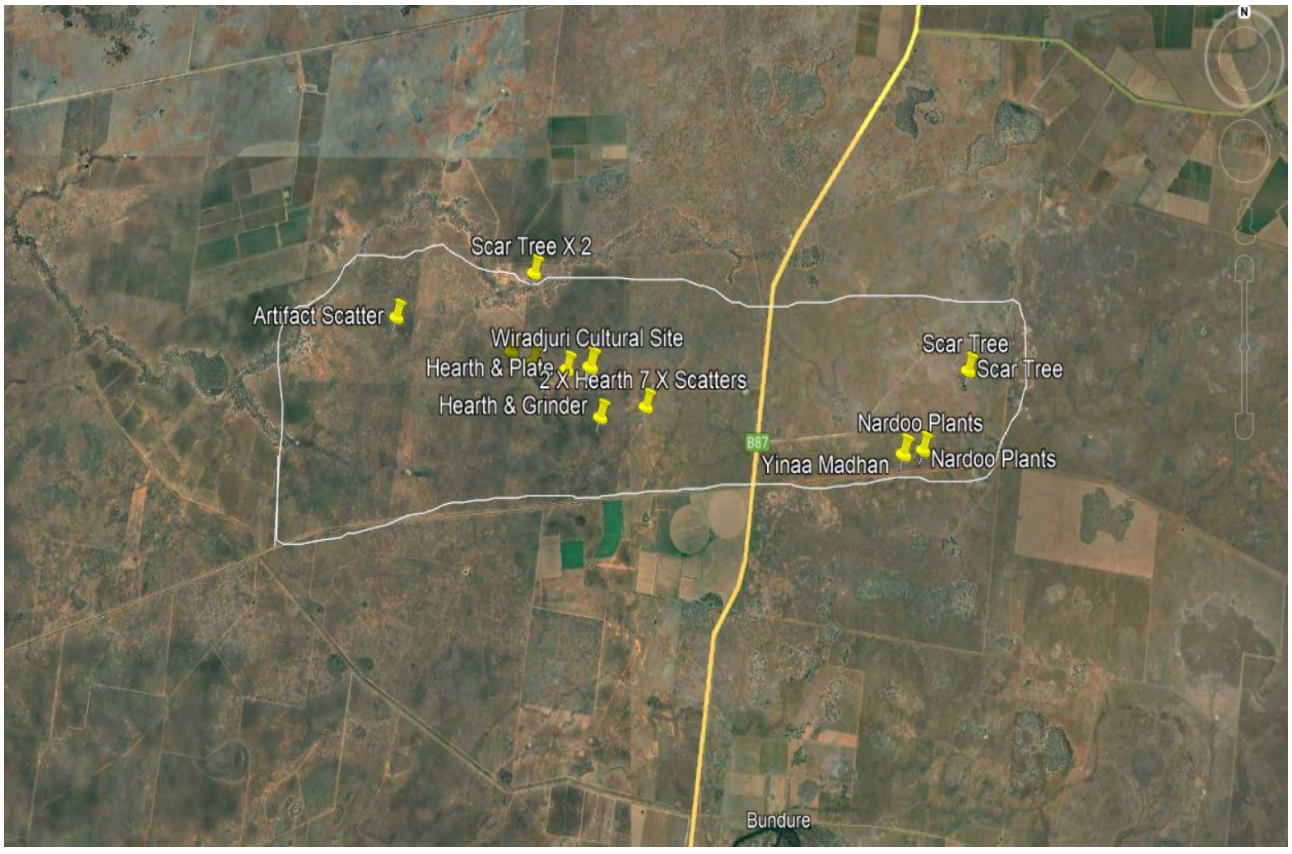


A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

15	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

Map and reference location to site:





Site recordings and location of site cards relevant to this site:

Site name	*Dinawan Solar Farm. NSW*		
Recorder	*Mark Saddler*		
Contact details	*Ph 0412 693 030*	*Email:*	*marksad@live.com.au*
Date prepared	*17/05/2023*	*Web:*	*http://www.bundyiculture.com.au/*

AHIMS ID (Site Card ID)	*Site Type*	*Location of Site Cards on Web Page.*	*Date Recorded*

Any site cards that will be done will be recorded by EMM Consulting. Please contact them.

Contact Information

Stakeholder details	***Responsibilities***	
Sparks Renewables Will Stone	***Proponent***	***0468 745 736***
Griffith Aboriginal Local Lands Council	***Cultural Advisor***	
Bundyi Cultural Services, Mark Saddler	***Culture Advisor, Recorder, Knowledge Holder***	***0412 693 030***
EMM Consulting, Alan Williams	***Heritage Consultant***	***02 9493 9584***

To find out more about Cultural Site Management, rules and protection go to this these web page links for more in depth information.

Do you need to use the due diligence code?

http://www.environment.nsw.gov.au/resources/cultureheritage/ddcop/10798ddcop.pdf

*OEH **legislation** which ensures that Aboriginal cultural heritage must be considered as part of land management practices.*

http://www.environment.nsw.gov.au/conservation/aboriginalculture.htm

Site Report and Recommendations.

17/05/2023

Dinawan Solar Farm, Coleambally, NSW. Wiradjuri Country.

On my site inspections from12/04/2023 I walked and covered a very large area of the proposed Dinawan Solar Farm to assist in locating and recording artifacts for safe keeping and protection. This work is to assist for possible construction works of a large solar farm.

Coleambally is a word that is from derived our Wiradjuri language and means "fast bird" (Swift Parrot) This area is a very spiritual place for my Wiradjuri people and as such has many special places, songlines and dreaming places that my people have cared for and continue to have connection too for over 80,000 + years.

Whilst I was on country, I witnessed many Dinawan (Emu) Womboin (Kangaroo) Ngarung (Lizards) and Budyaan (Birds) The area also is home to Maliyan (Wedge Tail Eagle) and as such Maliyan has many extremely large nests in the area. The habitat for all these animals must be taken into consideration when this solar farm is designed.

On inspection of the solar farm area, I found that most of the Wiradjuri/Aboriginal camping areas that we located, that also contained historical finds, seem to be located on the Eastern side of the many smaller wetland areas that are in this area. That leads me to believe that this place is one that Wiradjuri people visited and lived here in the warmer months of the year.

I have relayed to EMM Consulting that the places and items we have recorded are to be left insitu and not disturbed. I have also asked that we do "test excavations" in several areas so as to analyse the ground that lays beneath some of the areas that we deemed as "significant".

I also insist that if and when construction starts on this site, that at least 2 local RAP (Registered Aboriginal Parties) are employed to monitor the site for any "Unexpected Aboriginal Finds" One of these RAP should also be qualified to be able to identify and register any items found directly to the AHIMS site for protection. For your information I have these qualifications. These monitors will be ongoing employment/contracted for the work period of the construction and also of any soil disturbance.

I have also created and produced several drone videos of the area that will give you a much better overview of the area as well as a better understanding of the position of some of the special areas and items that we recorded. These videos have been supplied to Sam Elias from EMM Consulting and also to Will Stone from Sparks Renewables.

I believe that this Solar Farm will increase NSW's capacity to keep up with the growing demand for energy and also for employment. I would also ask that at least 10 % of the needed workforce be from the local Wiradjuri/Aboriginal community.

To understand more about working in and around aboriginal sites look at the procedures to work around Aboriginal sites. Information can be found at this link,
http://www.aboriginalheritage.org/sites/legislation/

References:

OEH, http://www.environment.nsw.gov.au/

Local Land Services, http://www.lls.nsw.gov.au/livestock/stock-routes

Mark Saddler, Cultural Advisor and Knowledge holder, www.bundyiculture.com.au

Goggle Earth Maps, https://www.google.com/earth/

Aboriginal Heritage, http://www.aboriginalheritage.org/sites/legislation/

Prepared by:

Mark Saddler, Bundyi Cultural Services

P.O.B 8005 Kooringal Post Office NSW 2650

Ph: 0412 693 030

Email: marksad@live.com.au

Web: www.bundyiculture.com.au

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Level 3 175 Scott Street
Newcastle NSW 2300
02 4907 4800
www.emmconsulting.com.au

Memorandum

5 July 2023

To: Taylar Reid

From: Sonya Pascoe

Subject: SIA engagement summary

Dear Taylar,

This memorandum is provided to summarise key outcomes arising from social impact assessment (SIA) engagement activities carried out for the Dinawan Energy Hub. Interviews and group discussions were held in June 2023 with representatives from the First Nations community, including a number of registered Aboriginal parties (RAPs) that participated in cultural heritage fieldwork for the project.

SIA engagement activities, stakeholders, and dates are shown in Table 1 below. A summary of engagement outcomes has been combined and are presented in Table 2, and can also be found in Section 5.3 of the SIA report.

Table 1 SIA specific engagement activities and participants – First Nations stakeholders

Stakeholder	Engagement activity	Date
RAPs - 2 individuals	Group discussion	6 June 2023
RAP - Bidya Marra Consultancy representative		
Local Aboriginal community member	Group discussion	9 June 2023
RAP – Griffith LALC representative		
Griffith Aboriginal Medical Service employee	Face-to-face interview	9 June 2023

Table 2 First Nations stakeholders SIA engagement outcomes

Theme / Issue	Notes
Project decision-making and stakeholder engagement	• Strong interest in being consulted and partnered with at various stages of project planning, construction and operation • Important to provide culturally safe space for training and engaging with the Aboriginal community • Building trust with non-Aboriginal people is still challenging for some individuals in the Aboriginal community.
Local characteristics and community values	• Concern about environmental impacts from the project, including flora and fauna, landscape changes • Country is *"our safe space"* • Broadly speaking, the Aboriginal community are not compensated for the loss of land that get developed on: – Being on Country provides benefits for mental health and physical health – *"We don't want to hand it over without a fight"* – The local Aboriginal community *"can't be bought"* • There is a need to reconnect mob with culture: land, language and community, noting the plethora of social challenges including impacts of colonisation, homelessness and substance use • Strong desire to cut the cycle of unemployment and substance use amongst the community
Project employment, procurement and training	• Important to train those in the local Aboriginal community in cultural heritage, as the knowledge holders in the area are getting older and are passing or less able to carry out the work • Strong interest expressed in capacity building, project training and employment opportunities • Important to have training and employment opportunities close to home • Suggestions to partner with local training providers, including TAFE and local colleges, to provide training for construction roles as well as cultural heritage skills • Barriers to employment and training include: lack of transport, lack of engagement school aged students, lack of engagement with girls and women, unstable housing, access to childcare, education costs, lack of opportunities close to home, coordinating various documentation (i.e., identification and certificates), and lack of ongoing/long-term opportunities, and substance use. • Stress importance of cultural awareness training for personnel on the Project site, and importance of cultural safety on site. Sometimes construction sites are the first instance of people interacting with an Aboriginal person – there needs to be things in place to make sure this is not a negative experience for anyone • Noted that Wiradjuri have a culture of matriarchy, yet women often are missing out on training and employment opportunities. Noted several male-based programs exist in the area to support training and employment, very few targeted at girls and women • Feel like the project would benefit from having someone from the Aboriginal community employed across all stages of the project, i.e., from heritage survey work, construction phase (including managing incidental finds), to operational phase. • Training and employment benefits beyond the individual, it benefits their family and community, and acts to provide stability for the individual.
Business and livelihoods	• There are opportunities to involve Aboriginal owned businesses and individuals in the operation of a worker accommodation facility for the Project.

Table 2 First Nations stakeholders SIA engagement outcomes

Theme / Issue	Notes
Accommodation and housing	• There are issues of homelessness and housing insecurity amongst the Aboriginal community across Darlington Point, Griffith, and Narrandera • Experience with other projects shows that there is a pattern of landlords increasing rental prices when fluctuations of workers need accommodation in town. This results in local people not being able to afford rentals and become homeless or rent elsewhere. There are very few rentals in the regional area – so can be very difficult to find a place nearby • Social housing in the area has very long waiting lists • Use of a worker accommodation facility is ideal to not add pressure on existing housing issues • Couch-surfing is common in the area, due to lack of services to support those experiencing housing insecurity.
Services	• There is a lack of health and support services for Aboriginal people in the area • Health and support services lack capacity to address social needs amongst the Aboriginal community, including for substance use, housing, and mental health
Cultural heritage	• Strong interest in learning cultural heritage skills so knowledge can be carried on to next generation • Importance of having local Aboriginal workers on site to assist with incidental finds, and their management • Strong value for embracing cultural heritage through connection with, and caring for, Country • Cultural heritage knowledge supports connection with ancestors.
Community benefit sharing suggestions	• Suggestions to support capacity building, training and employment : – paid incentives to attend training – scholarships and traineeships – especially for girls and women – use of local colleges and training facilities to minimise travel – carry out “ID days” to assist community to coordinate IDs, certificates, licenses, confirmation of Aboriginality etc. – organise transportation to ensure attendance at training facilities – i.e. fund a bus – this would have legacy benefits beyond the project life – Support people in Aboriginal community to register a business (i.e., obtaining ABN, tax management) • Suggest that there could be a “community alliance agreement” or a “partnership agreement” – Important to have commitments in writing – Monthly or quarterly meetings to report back to the community on progress • Other ideas for community benefit-sharing: – Provide electricity discounts to people in the local Aboriginal community undergoing financial hardship – Assist first homeowners – rent to buy – Support/partner with drug and alcohol, housing and other support services to increase service provision/capacity – Train local Aboriginal people to provide tourism services to promote culture locally.

Yours sincerely

Sonya Pascoe
Social Planner
spascoe@emmconsulting.com.au

Meg Ferrier

From: Taylar Reid
Sent: Wednesday, 30 August 2023 4:30 PM
Cc: Melanie Thomson; Samuel Elias; David Richards; Kate Cox; Alan Williams; Julian Kasby; laurie.wallis@sparkrenewables.com
Subject: Dinawan Energy Hub | Solar Draft ACHA

Hi All,

Thank you for your ongoing participation and engagement in the Aboriginal cultural heritage assessment (ACHA) associated with the Dinawan Energy Hub Solar Farm. It is with great pleasure that we can now provide you with a copy of the draft ACHA, for your review.

Overall, the findings largely conformed with the regional model, with the field investigations resulting in the identification of 35 previously undocumented Aboriginal sites, comprising surface stone artefact scatters, hearths, culturally modified trees, and a potential women's tree. Discussions throughout the field investigations and project redesign have resulted in the avoidance of the majority of these sites, including the potential women's site, nearly all hearth sites, and the low-sandy rise and paleochannel in the south-eastern portion of the project area. As indicated during the fieldwork program, recommendations have been provided for inclusion in the project approval to minimise and mitigate impacts to cultural heritage. These include the development of an Aboriginal Cultural Heritage Management Plan (ACHMP) to provide guidance around additional archaeological investigations and a procedure for the recovery of cultural materials where further avoidance of identified sites is not possible.

Due to the size, the draft report can be downloaded from the following link: https://spaces.hightail.com/receive/hrc47EGWni
Please let me know if you have trouble accessing the link. We are happy to send out a hard copy if that's preferred, please just let us know and provide an up-to-date postal address.

At this stage, we will be looking to finalise the report on **26 September 2023**. If you wish to provide input or comments, please can you do so by this date, or let us know if you require additional time.

Happy to discuss.

Kind regards,

Taylar Reid
Senior Archaeologist

creating opportunities

T 02 4907 4800
M 0418 299 575
LI Connect on LinkedIn
emmconsulting.com.au

NEWCASTLE | Awabakal Country, Level 3, 175 Scott Street, Newcastle NSW 2300

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Meg Ferrier

From: Taylar Reid
Sent: Saturday, 2 September 2023 10:46 AM
To: Roley Williams
Cc: Melanie Thomson; Samuel Elias; Alan Williams; Kate Cox; David Richards
Subject: RE: Dinawan Energy Hub | Solar Draft ACHA

Hey Roley,

A hard copy has been sent to your address and should arrive sometime on 5 September.

It's with TNT shipping and the tracking number is 228074216 if you need it. Let me know if it doesn't arrive or if you have any issues. Thanks!

Kind regards,

Taylar Reid
Senior Archaeologist

T 02 4907 4800
M 0418 299 575
www.emmconsulting.com.au

I am working remotely from western Canada. My Australian hours are Tuesday – Saturday, 3AM – 11AM (AEST). I do not expect you to read, respond or action this email outside your regular hours.

From: Roley Williams <williamsroley14@gmail.com>
Sent: Thursday, August 31, 2023 8:28 AM
To: Taylar Reid <treid@emmconsulting.com.au>
Subject: Re: Dinawan Energy Hub | Solar Draft ACHA

CAUTION: This email originated outside of the Organisation.

Please send me a hard copy of the report to:

Roley Williams

Unit 1/33a Arthur Street
Narrandera 2700 NSW

Thanks 👍

On Wed., 30 Aug. 2023, 4:29 pm Taylar Reid, <treid@emmconsulting.com.au> wrote:

> Hi All,
>
> Thank you for your ongoing participation and engagement in the Aboriginal cultural heritage assessment (ACHA) associated with the Dinawan Energy Hub Solar Farm. It is with great pleasure that we can now provide you with a copy of the draft ACHA, for your review.
>
> Overall, the findings largely conformed with the regional model, with the field investigations resulting in the identification of 35 previously undocumented Aboriginal sites, comprising surface stone artefact scatters, hearths, culturally modified trees, and a potential women's tree. Discussions throughout the field investigations and project redesign have resulted in the avoidance of the majority of these sites, including the potential women's site, nearly all hearth sites, and the low-sandy rise and paleochannel in the south-eastern portion of the project area. As indicated during the fieldwork program, recommendations have been provided for inclusion in the project approval to minimise and mitigate impacts to cultural heritage. These include the development of an Aboriginal Cultural Heritage Management Plan (ACHMP) to provide guidance around additional archaeological investigations and a procedure for the recovery of cultural materials where further avoidance of identified sites is not possible.
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> Due to the size, the draft report can be downloaded from the following link: https://spaces.hightail.com/receive/hrc47EGWni
>
> Please let me know if you have trouble accessing the link. We are happy to send out a hard copy if that's preferred, please just let us know and provide an up-to-date postal address.
>
> At this stage, we will be looking to finalise the report on **26 September 2023**. If you wish to provide input or comments, please can you do so by this date, or let us know if you require additional time.

Happy to discuss.

Kind regards,

Taylar Reid
Senior Archaeologist

T 02 4907 4800

M 0418 299 575

LI Connect on LinkedIn

emmconsulting.com.au
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Report this message as spam

Meg Ferrier

From: Taylar Reid
Sent: Thursday, 21 September 2023 2:01 PM
Cc: Melanie Thomson; Samuel Elias; David Richards; Kate Cox; Alan Williams
Subject: RE: Dinawan Energy Hub | Solar Draft ACHA

Hi All,

This is a reminder that the comments for the draft Dinawan Solar Farm ACHA are due by Tuesday, 26 September 2023. The impacts and mitigation measures were broadly discussed in the recent AFG meeting with Alan, however I'm happy to discuss the outcomes of the ACHA over the phone. If this is your preference please let me know and I'll organise a suitable time to discuss, or feel free to ring me 0418 299 575. If you need more time, let me know as well.

Additionally – thank you for everyone's hard work in the field these past few months! We will be in touch with more information regarding the Dinawan Wind Farm soon.

Hope everyone is well.

Kind regards,

Taylar Reid
Senior Archaeologist

T 02 4907 4800
M 0418 299 575
www.emmconsulting.com.au

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From: Taylar Reid
Sent: Wednesday, August 30, 2023 4:30 PM
Cc: Melanie Thomson <mthomson@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Kate Cox <kcox@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>; Julian Kasby <julian.kasby@sparkrenewables.com>; laurie.wallis@sparkrenewables.com
Subject: Dinawan Energy Hub | Solar Draft ACHA

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Happy to discuss.

Kind regards,

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Senior Archaeologist
EMM creating opportunities
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Meg Ferrier

From: Taylar Reid
Sent: Monday, 25 September 2023 10:38 AM
To: Mark Saddler
Cc: Samuel Elias; Melanie Thomson; David Richards; Kate Cox; Alan Williams
Subject: FW: Dinawan Energy Hub | Solar Draft ACHA

Hey Mark,

Please see the link to download the draft Solar ACHA here: https://spaces.hightail.com/receive/hrc47EGWni

If you have any questions or comments please feel free to email me or give me a ring. If it's after hours you can leave a message or I can ring you back tomorrow if you'd like to discuss.

Kind regards,

Taylar Reid
Senior Archaeologist

T 02 4907 4800
M 0418 299 575
www.emmconsulting.com.au

I work flexible hours. I do not expect you to read, respond or action this email outside your regular hours.

From: Taylar Reid
Sent: Thursday, September 21, 2023 2:01 PM
Cc: Melanie Thomson <mthomson@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Kate Cox <kcox@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>
Subject: RE: Dinawan Energy Hub | Solar Draft ACHA

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From: Taylar Reid
Sent: Wednesday, August 30, 2023 4:30 PM
Cc: Melanie Thomson <mthomson@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Kate Cox <kcox@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>; Julian Kasby <julian.kasby@sparkrenewables.com>; laurie.wallis@sparkrenewables.com
Subject: Dinawan Energy Hub | Solar Draft ACHA

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Kind regards,

Taylar Reid
Senior Archaeologist

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From:	Mark Saddler
To:	Taylar Reid
Cc:	Samuel Elias; Melanie Thomson; David Richards; Kate Cox; Alan Williams
Subject:	RE: Dinawan Energy Hub | Solar Draft ACHA
Date:	Monday, 25 September 2023 7:00:27 PM
Attachments:	image002.png 0CB6F856503A4633AF9C541457F826C8[10079514].jpg 7AEFAB48222148A488F06A9AEF2305FC[10079515].jpg 3E49CDD704F84696B0A8CE0A59321AD5[10079516].jpg 25157BB2D8CE4574AF68F7FE5544AFEA.png 1230DE32F6DD4F56ABFFCD9551975816.png

CAUTION: This email originated outside of the Organisation.

Yamma Taylar,

I have scanned thru the report "Dinawan Energy Hub/Solar Draft ACHA"

Thank you for including me in this process.

As I struggle to read and write I mostly go to the parts that mean the most to me and our Wiradjuri People.

I would like to see the "Introduction" part of the report firstly state that both Sparks and EMM acknowledge the long standing connection of this country of Wiradjuri People.

As Wiradjuri have loved and continue to love this land for over 60,000 + years it is necessary to ensure that all people know our connection to country.

This country is Wiradjuri and as such should be written that way.

Every report must also be written in a way that explains to all readers that the land that which is being worked on, is a place that mob have connected to for over 60,000 years.

I would also ask that any "Induction Processes" that are to be delivered by "Sparks Renewables" must and will be delivered by 'Wiradjuri Knowledge Holders" to any and all people who work on or with this project.
Wiradjuri knowledge holders will also have great input into any "Introduction Processes" to ensure they are correct and respectful.

I also ask that "Signs" be erected on all sites that "Acknowledge" people they are on "Wiradjuri Country"

I still need confirmation around the timing of the collection of all items that we found on country ?

I also need to be able to be comfortable with also where we can place our Wiradjuri items back onto country.

I want to be assured in writing that all the places and items we have recorded will be protected.

I also ask, as I have done many times, to have at least 4 local Wiradjuri knowledge holders on site when work begins as well as being onsite for the entire project building. These people will have the ability to be able to record to AHIMS and also give accurate and correct information to the onsite and offsite workers with regards to "Due Diligence" and "Unexpected Finds"

I also ask that "Sparks Renewables" incorporate into their contracts with on and off site "Contractors" that local Aboriginal People" must be employed to assist in their work.

I would ask for at least "12% Aboriginal Employment Strategy" to be introduced for short and long term work on this site as well as the "Wind Farm"

I say to you Taylar "Mandaang Guwu Ngadhi Marang Mudyi" (Thank you my good friend) for the work you have done with this and other projects in and on Wiradjuri Country.

I also thank EMM and your amazing people who are truly helping Wiradjuri to save and protect Ngaligingu Ngurambang-bu Garray-bu (Our Country and Land)

Guwayu (Safe Travels)

Mark Saddler,
Cultural Awareness,
School & Tour Programs,
Bundyi Cultural Tours,
Web Page: www.bundyiculture.com.au
Facebook Page: https://www.facebook.com/WiradjuriMob/
You Tube Channel:
https://www.youtube.com/channel/UCqQObJ3e8u_WoV7N9xZ2JzA
Ph 0412 693 030

"I respectfully acknowledge the traditional custodians of my land, The Wiradjuri people"

"Always Was, Always Will Be"

From: Taylar Reid
Sent: Monday, 25 September 2023 10:38 AM
To: Mark Saddler
Cc: Samuel Elias; Melanie Thomson; David Richards; Kate Cox; Alan Williams
Subject: FW: Dinawan Energy Hub | Solar Draft ACHA

Hey Mark,

Please see the link to download the draft Solar ACHA here:
https://spaces.hightail.com/receive/hrc47EGWni

If you have any questions or comments please feel free to email me or give me a ring. If it's after hours

you can leave a message or I can ring you back tomorrow if you'd like to discuss.

Kind regards,

Taylar Reid
Senior Archaeologist

T 02 4907 4800
M 0418 299 575
www.emmconsulting.com.au

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From: Taylar Reid
Sent: Thursday, September 21, 2023 2:01 PM
Cc: Melanie Thomson <mthomson@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Kate Cox <kcox@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>
Subject: RE: Dinawan Energy Hub | Solar Draft ACHA

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Additionally – thank you for everyone's hard work in the field these past few months! We will be in touch with more information regarding the Dinawan Wind Farm soon.

Hope everyone is well.

Kind regards,

Taylar Reid
Senior Archaeologist

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M 0418 299 575
www.emmconsulting.com.au

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From: Taylar Reid
Sent: Wednesday, August 30, 2023 4:30 PM
Cc: Melanie Thomson <mthomson@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Kate Cox <kcox@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>; Julian Kasby <julian.kasby@sparkrenewables.com>; laurie.wallis@sparkrenewables.com
Subject: Dinawan Energy Hub | Solar Draft ACHA

Hi All,

Thank you for your ongoing participation and engagement in the Aboriginal cultural heritage assessment (ACHA) associated with the Dinawan Energy Hub Solar Farm. It is with great pleasure that we can now provide you with a copy of the draft ACHA, for your review.

Overall, the findings largely conformed with the regional model, with the field investigations resulting in the identification of 35 previously undocumented Aboriginal sites, comprising surface stone artefact scatters, hearths, culturally modified trees, and a potential women's tree. Discussions throughout the field investigations and project redesign have resulted in the avoidance of the majority of these sites, including the potential women's site, nearly all hearth sites, and the low-sandy rise and paleochannel in the south-eastern portion of the project area. As indicated during the fieldwork program, recommendations have been provided for inclusion in the project approval to minimise and mitigate impacts to cultural heritage. These include the development of an Aboriginal Cultural Heritage Management Plan (ACHMP) to provide guidance around additional archaeological investigations and a procedure for the recovery of cultural materials where further avoidance of identified sites is not possible.

Due to the size, the draft report can be downloaded from the following link:
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Please let me know if you have trouble accessing the link. We are happy to send out a hard copy if that's preferred, please just let us know and provide an up-to-date postal address.

At this stage, we will be looking to finalise the report on **26 September 2023**. If you wish to provide input or comments, please can you do so by this date, or let us know if you require additional time.

Happy to discuss.

Kind regards,

Taylar Reid
Senior Archaeologist

T 02 4907 4800
M 0418 299 575
LI Connect on LinkedIn
emmconsulting.com.au

NEWCASTLE | Awabakal Country, Level 3, 175 Scott Street, Newcastle NSW 2300

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Meg Ferrier

From: Taylar Reid
Sent: Wednesday, 27 September 2023 11:55 AM
To: Mark Saddler
Cc: Samuel Elias; Melanie Thomson; David Richards; Kate Cox; Alan Williams
Subject: RE: Dinawan Energy Hub | Solar Draft ACHA

Hey Mark,

Mandaang Guwu Ngadhi Marang Mudyi. Thank you for providing your comments. These will be incorporated into the consultation section of the ACHA with our response/amendments where required, but I'll answer a few of your questions here as well.

All cultural materials that were identified during the field investigations have been documented in the ACHA and the sites have been lodged with the AHIMS database. The approved site cards will be included in Appendix D.3. Regarding the timeframe for the collection of cultural materials and determining their reburial location – this would occur following project approval, and the details would be determined during the development of the Aboriginal Cultural Heritage Management Plan (ACHMP). This will be developed in consultation with the RAPs, and this is when the details for most of your other comments will be addressed as well, such as the cultural inductions, signage, monitoring etc. Regarding project timing, a lot will depend on the construction of supporting infrastructure within the South West Renewable Energy Zone and Spark's ability to connect their project to this infrastructure. Timing around this process is currently unknown; however, it's unlikely construction would commence until late 2024/early 2025.

Regarding the employment of Aboriginal people during the construction phase of the project, this is outside our scope and the scope of the ACHA, but we will pass this onto Spark. Also thank you for catching the Acknowledgement of Country, usually that is standard in our reports but it's been left off this template, I'm glad you saw it.

Let me know if you have any other questions or would like to discuss over the phone. Speak soon.

Kind regards,

Taylar Reid
Senior Archaeologist

T 02 4907 4800
M 0418 299 575
www.emmconsulting.com.au

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From: Mark Saddler <marksad@live.com.au>
Sent: Monday, September 25, 2023 7:00 PM
To: Taylar Reid <treid@emmconsulting.com.au>
Cc: Samuel Elias <selias@emmconsulting.com.au>; Melanie Thomson <mthomson@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Kate Cox <kcox@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>
Subject: RE: Dinawan Energy Hub | Solar Draft ACHA

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From: Taylar Reid
Sent: Monday, 25 September 2023 10:38 AM
To: Mark Saddler
Cc: Samuel Elias; Melanie Thomson; David Richards; Kate Cox; Alan Williams
Subject: FW: Dinawan Energy Hub | Solar Draft ACHA

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Senior Archaeologist

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M 0418 299 575
www.emmconsulting.com.au

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Additionally – thank you for everyone's hard work in the field these past few months! We will be in touch with more information regarding the Dinawan Wind Farm soon.

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laurie.wallis@sparkrenewables.com
Subject: Dinawan Energy Hub | Solar Draft ACHA

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Happy to discuss.

Kind regards,

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B.6 Additional consultation

Meg Ferrier

From: Alan Williams
Sent: Wednesday, 8 March 2023 10:37 AM
To: Alan Williams
Cc: Taylar Reid; Melanie Thomson
Subject: Dinawan Energy Hub - AFG meeting #1 - 6/7 March 2023

Dear All,

Thank you for your time earlier this week to meet and discuss the Dinawan Energy Hub (solar and wind) projects, near Coleamblly, NSW. Please find below the minutes of our meeting/s, please let me know if they are any errors or omissions and I'll happily update

Meeting (Monday 10am-12pm, 6 March 2023 - Muddy Lane Café, Arcade Lane, Coleamblly) – Alan Williams, Taylar Reid, Sam Elias (EMM); Roselyn Simpson, Allan Mckenzie (Griffith LALC); Bruce Crowe, Jason Crowe (Bidya Marra Consultancy); Roley Williams, Jason Matthews (Narrandera Aboriginal Community Affairs)
Online meeting (Tuesday 10-11am, 7 March 2023) – Alan Williams, Mel Thomson (EMM); Mark Saddler (Bundyi Aboriginal Cultural Knowledge)
Apologies: Uncle Robert Carroll (Bundyi Aboriginal Cultural Knowledge)

Key activities and outcomes

- AW provided an introduction to the project and discussed the proposed Aboriginal cultural heritage assessment process. This included:
    - Outlining the proposed projects, including the general location, their context in relation to other studies (such as Project Energy Connect and Yanco Delta Wind Farm), and the main project elements for both the solar and wind farms. This included that the solar and wind farms were being assessed as separate projects, despite significant overlap. As such, two reports would ultimately be developed. A brief discussion was also undertaken of the Renewable Energy Zones (REZ), their purpose and broader potential benefits to the local Aboriginal community.
    - Providing a brief history of the project and EMM's involvement, including the discussion of the Austral Archaeology due diligence of the site and some of their initial consultation over the last 12 months.
    - Outlining the Aboriginal cultural heritage assessment process, including the consultation process, desktop review (discussing AHIMS data), and with a focus on the upcoming field survey and potential test excavations if needed. This included the proposed length of the survey, and its staggered approach focussing first on the proposed solar farm and then the wind farm. The discussions outlined some of the survey targets,

including creek lines, remnant vegetation and known sand dune/lunette type environments that may be present. Some discussions on the test excavations that would only be undertaken where subsurface cultural deposits were considered probable and could not be avoided by the project.

- Outlining the timing of the ACHA process focussing on the field survey activities, future AFG meetings, and potential next steps. This included an initial survey of the solar immediately with wind farm investigations after Easter. Additional tasks and reporting to occur after this. A second meeting to discuss the findings of the solar farm and lessons learned prior to the wind farm investigations was also discussed.

- TR ran through the safety documentation for the proposed fieldwork and outlined the logistics and plans for the field survey following the meeting.

Key discussion points

- Discussion focussed on improving participants understanding of the process and project, and how it related to other nearby projects (mostly as a result of being in the REZ).
- Discussion around other recent studies, including the Yanco Delta Wind Farm to the south were undertaken, with an exploration of their findings and what it might mean for the project. References were made to the discovery of camp sites, culturally modified trees, hearths and oven mounds found elsewhere, and which may be expected in the study area. Some reference was also made to a wetland and associated lunette type deposits in the Yanco Delta Wind Farm site, and that similar highly significant deposits may also be present.
- Some discussion of the broader environment, with a focus on major river systems such as Murrumbidgee to the north, demonstrating the importance of the region to the Wiradjuri people.
- MS provided translation of some of the place and town names in the region, all being based on Wiradjuri language.

Happy to discuss,

Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

EMM
creating opportunities

T 02 9493 9500
M 0438 104 740
D 02 9493 9584
Connect with us

SYDNEY | Ground floor, 20 Chandos Street, St Leonards NSW 2065

Associate Investigator
ARC Centre of Excellence for Australian
Biodiversity and Heritage (CABAH)
University of New South Wales
Sydney, NSW 2052

Adjunct Senior Lecturer
School of Biological, Earth and Environmental Sciences
University of New South Wales,
Sydney, NSW 2052

Industry Fellow
Institute of Sustainable Futures
University Technology Sydney
Ultimo, NSW 2007

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Dinawan Energy Hub | AFG Meeting 2 | Thurs 6 April 2023

Taylar Reid
To
Cc Melanie Thomson; Alan Williams; David Richards; Kate Cox
Bcc grifflalc@bigpond.com; ingram.james1959@gmail.com; david.crew@yarkuwa.org.au; Mark Saddler; williamsroley14@gmail.com; kevin.a@ahvic.org.au

Reply | Reply All | Forward

Tue 28/03/2023 4:24 PM

Hello All,

Thank you for speaking with me over the last few days. This email provides the details for the second Aboriginal Focus Group (AFG) meeting on **Thursday 6 April 2023** for the Dinawan Energy Hub project. We will discuss the results and outcomes of the solar survey and the next steps, as well as the proposed survey strategy for the upcoming wind component. This will include identifying any potential areas of cultural interest or concern within or in proximity to the project area.

There will be two meetings to accommodate the varying geographies of the groups, but the information presented at both meetings will be the same. The meeting will take ~1-2 hours and you will be compensated for your time at contracted rate of [redacted] In the event your organisation is unable to attend, please let me know and we can organise an online meeting instead.

For those attending the AFG in Narrandera, we will be meeting at **9AM** at the **Tangled Café** on Boundary Street. For those attending the meeting in Griffith, we will be meeting at **12PM** at the **Griffith Local Aboriginal Land Council** located at 5 Wiradjuri Place.

If you have any questions or concerns please let me know.

Thank you.

Kind regards,

Taylar Reid
Senior Archaeologist
Bushfire, Ecology, Heritage and Spatial Solutions
EMM creating opportunities
M 0418 299 575
T 02 9493 9500
D 02 4907 4847
Connect with us
NEWCASTLE | Level 3, 175 Scott Street, Newcastle NSW 2300

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Dinawan Energy Hub - AFG 2 Meeting | Tuesday 11 April 2023

Taylar Reid
To
Cc Samuel Elias; Alan Williams; David Richards; Kate Cox; Taylar Reid
Bcc griffalc@bigpond.com; ingram.james1959@gmail.com; david.crew@yarkuwa.org.au; Mark Saddler; williamsroley14@gmail.com; kevin.a@ahvic.org.au

Reply | Reply All | Forward

Thu 6/04/2023 3:04 PM

Hi All,

Apologies to those I was supposed to be meeting in person today. As you know, due to some flight cancellations late last night I was unable to fly out to Narrandera and Griffith to conduct our in-person AFG meetings today. As such, we have rescheduled the meetings to **Tuesday 11 April 2023.** I will be presenting identical information at both meetings and the meeting minutes will capture any additional discussions that occur. The meetings should only take an hour or so and you will be compensated for your time at the standard rate of [redacted] The meeting time and locations are below. If you haven't already, please confirm whether or not you are able to attend and at which location. If you are unable to attend in person, let me know and we can organise an online meeting sometime during that week.

Narrandera – Tangles Café, Bolton Street @ **1:30PM**

Griffith – Location TBC (likely Griffith LALC, 5 Wiradjuri Place) @ **4PM**

Agenda

Review of Solar Farm survey (7 – 10 March 2023)

- Summary, coverage, finds
- Key findings
- Next steps – including additional survey (12 – 18 April 2023) & proposed test excavation program (dates and details TBC)
- Lessons learnt, areas to improve?

Upcoming Wind Farm survey (19 April – 5 May 2023*)

- Proposed survey method and approach
- Identify areas of cultural value/concern within the proposed project area
- Identify any areas that should be inspected as a priority

*Dates for the Wind Farm surveys are approximate and subject to change pending the Solar Farm test excavation program, which will be priority, pushing back the Wind Farm surveys.

I will be driving up from Newcastle very early Tuesday morning, so if you have any issues please ring me.

Kind regards,

Taylar Reid
Senior Archaeologist
Heritage, Ecology, Heritage and Visual Solutions
EMM
creating opportunities
M 0418 299 575
T 02 9493 9500
D 02 4907 4847
Connect with us

Dinawan Energy Hub | AFG Meeting #4 | 17 August 2023

Reply | Reply All | Forward | ...

Wed 2/08/2023 11:39 AM

Taylar Reid
To
Cc Alan Williams; Melanie Thomson; David Richards; Kate Cox; Samuel Elias
Bcc grifflalc@bigpond.com; ingram.james1959@gmail.com; david.crew@yarkuwa.org.au; Mark Saddler; williamsroley14@gmail.com; kevin.a@ahvic.org.au

YAI Map General - Amaroo.pdf
.pdf File

Hi All,

Thank you for speaking with us over the last few days. This email provides the details for the third Aboriginal Focus Group (AFG) meeting on **Thursday 17 August 2023** for the Dinawan Energy Hub project. We will discuss the results and outcomes of the Wind surveys and the next steps, including the proposed test excavation strategy. We will also discuss the Solar ACHA's results and recommendations – the report is very near completion and will be sent to you for review soon.

The meeting will take **~1-2 hours** and you will be compensated for your time at contracted rate of [redacted] In the event your organisation is unable to attend, please let me know and we can organise an online meeting instead.

The meeting will be held at **10AM** in the **Amaroo Conference Room** at the Aboriginal Rural Training Centre located in the **Yanco DPI complex** – 2198 Irrigation Way, Yanco NSW. Attached is a map indicating the location of the meeting room (room 17) on the grounds of the campus. If you have any questions please let me know, or give Mel (0427 551 106) or Alan (0438 104 740) a ring.

If you have any questions or concerns please let me know.

Thank you!

Kind regards,

Taylar Reid
Senior Archaeologist
EMM
creating opportunities
T 02 4907 4800
M 0418 299 575
LI Connect on LinkedIn
emmconsulting.com.au
NEWCASTLE | Awabakal Country, Level 3, 175 Scott Street, Newcastle NSW 2300

Meg Ferrier

From: Taylar Reid
Sent: Wednesday, 12 April 2023 7:59 PM
Cc: David Richards; Alan Williams; Kate Cox; julian.kasby@sparkrenewables.com; Samuel Elias; Melanie Thomson
Subject: Dinawan Energy Hub | AFG Meeting 2 | 11 April 2023

Hi All,

Thank you for those who attended the meeting yesterday, 11 April 2023, apologies to those I missed. Below is a discussion around what happened, please let me know if there are any inaccuracies or anything else that can be added, and I will update accordingly. Thank you.

Location:
Red Door Café, 90 East Street, Narrandera NSW, 1:30PM

Griffith LALC, 5 Wiradjuri Place, Griffith NSW, 4PM

Present:
Red Door Café
Taylar Reid (EMM), Julian Kasby (Spark), Bruce Crowe and James Ingram (Bidya Marra Consultancy), Roland Atkinson and David Edwards (Bangarang Aboriginal Corporation & Cummeragunja LALC), Jason Matthews and Roley Williams (Roley Williams/Individual).

Griffith LALC
Taylar Reid (EMM), Julian Kasby (Spark), Mark Saddler (Bundyi Aboriginal Cultural Knowledge), Allan McKenzie and Stephen Young (Griffith LALC).

Apologies:
David Crew (Yarkuwa Indigenous Knowledge Centre), Roslyn Simpson (Griffith LALC). DC & RS confirmed meeting minutes would be sufficient and would contact TR to discuss if necessary.

Summary of Meeting:

- Welcome to Country (Roley Williams and Mark Saddler)
- TR gave a briefing of Solar Farm survey works completed to date, including additional Solar Farm survey and test excavation, and the upcoming Wind Farm survey plan.
- Discussion occurred around the numerous Aboriginal ancestral remains that have been found in the region and potential for remains to occur in Project Area where deeper soils exist.

- TR noted the Wind Farm has some sand dune mapping and will be targeted during survey, including other watercourses and stands of mature trees remain.
- Proposed fieldwork plan was discussed prior and confirmed with RAPs, outlined below.

Key Outcomes and Actions:

- Week 1 of Solar Farm survey resulted in 22% coverage (550ha) of the Solar Footprint and identified 11 previously undocumented Aboriginal sites: six hearths, three artefact scatters (low-density), and two hearths with artefacts.
- Heritage NSW recently rejected the Yanco Delta Wind Farm (YDWF) ACHA in February for insufficient survey coverage (10% of the project area). The YDWF lies immediately to the south of the Project Area on a similar landscape with low visibility. EMM has received advice from Heritage NSW for other projects (Central West Orana Transmission Line) that 70% coverage was considered robust.
- EMM Soils and Contaminated Land team identified several localities within the Solar Farm footprint with aeolian/alluvial topsoils ranging 30 cm – 70 cm deep in association with a paleochannel, notably in the south-eastern portion of the Solar Footprint.
- Additional Solar Farm survey will target these areas and the suitability for test excavation, as well as any additional areas of interest identified during the survey activities.
- Discussion occurred around Aboriginal ancestral remains recorded in the region, including the Limondale Solar Farm in Balranald (EMM), Dry Lake near Euroley, Koonadan in Leeton, and Lake Boga west of the Project Area. Sand dunes will be targeted during Wind Farm survey (19 April – 12 May 2023).
- Wind Farm spans a very large footprint with ~250 turbines proposed. Will not be possible to survey every location, however areas of high potential (sand dunes, watercourses, stands of mature vegetation) will be targeted as well as ensuring a representative sample of landforms are surveyed.
- Mark Saddler – noted the old river red gum tree identified during the first week of survey may be a women's tree. The limbs have been trained to grow down into the ground and do not appear natural. The site will be visited during survey on 12 April 2023.
- Proposed fieldwork plan: 12 – 18 April 2023, additional Solar Farm survey. 19 April – 12 May 2023, Wind Farm survey. Roster and dates have been confirmed with RAPs but activities may shift to allow completion of Solar Farm test excavation prior to finalising Wind Farm survey. Test excavation for Wind Farm area will be determined following the survey outcomes and in discussion with RAPs.

Kind regards,

Taylar Reid
Senior Archaeologist
Bushfire, Ecology, Heritage and Spatial Solutions
EMM creating opportunities
M 0418 299 575
T 02 9493 9500
D 02 4907 4847
Connect with us
NEWCASTLE | Level 3, 175 Scott Street, Newcastle NSW 2300

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Meg Ferrier

From: Roley Williams <williamsroley14@gmail.com>
Sent: Wednesday, 12 April 2023 8:15 PM
To: Taylar Reid
Cc: David Richards; Alan Williams; Kate Cox; julian.kasby@sparkrenewables.com; Samuel Elias; Melanie Thomson
Subject: Re: Dinawan Energy Hub | AFG Meeting 2 | 11 April 2023
Attachments: image003.png

CAUTION: This email originated outside of the Organisation.

Thanks for the update.
Roley 👍

On Wed., 12 Apr. 2023, 7:59 pm Taylar Reid, <treid@emmconsulting.com.au> wrote:

> Hi All,
>
> Thank you for those who attended the meeting yesterday, 11 April 2023, apologies to those I missed. Below is a discussion around what happened, please let me know if there are any inaccuracies or anything else that can be added, and I will update accordingly. Thank you.
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Griffith LALC

Taylar Reid (EMM), Julian Kasby (Spark), Mark Saddler (Bundyi Aboriginal Cultural Knowledge), Allan McKenzie and Stephen Young (Griffith LALC).

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Kind regards,

Taylar Reid
Senior Archaeologist

Bushfire, Ecology, Heritage and Spatial Solutions

M 0418 299 575

T 02 9493 9500

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https://www.mailguard.com.au/mg

Report this message as spam

Meg Ferrier

From: Mark Saddler <marksad@live.com.au>
Sent: Wednesday, 17 May 2023 3:40 PM
To: Alan Williams; Samuel Elias; Taylar Reid
Subject: Mark Saddler
Attachments: Dinawan Solar Report 17.5.2023.pdf

CAUTION: This email originated outside of the Organisation.

Yamma Biyambul Mayiny !
(Hello All People)

Please find attached my report for Dinawan Solar Farm.

I will download all my drone videos to Sam next week, via his hard drive.

Guwayu (Safe Travels)

Mark Saddler,
Cultural Awareness,
School & Tour Programs,
Bundyi Cultural Tours,
Web Page: www.bundyiculture.com.au
Facebook Page: https://www.facebook.com/WiradjuriMob/
You Tube Channel:
https://www.youtube.com/channel/UCqQObJ3e8u_WoV7N9xZ2JzA
Ph 0412 693 030

"I respectfully acknowledge the traditional custodians of our land, My Wiradjuri people !
"Always Was, Always Will Be"

Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering.
https://www.mailguard.com.au/mg

Report this message as spam

Bundyi Cultural Services

Mark Saddler

Dinawan Solar Farm, Coleambally, NSW

Bundyi Cultural Services, Mark Saddler

17/05/2023

Artwork by Mark Saddler. (Copyright)

Artwork Title, Murrawarra (stand your ground, protect)

Back Ground Artwork "Ngumbaay Bula Bila Mayiny (3 River people)

Mark Saddler

This report was compiled by Bundyi Cultural Services.

Contents:

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Page 6: Due Diligence Flow Chart.
Page 7: AHIMS Data Base Search.
Page 8: Site Location Maps.
Page 9: Site Recordings, Site Information.
Page 10: Contact Information.
Page 11: Site Report and Recommendations.
Page 12: References and End Report

"I acknowledge the traditional custodians of this land, our land, "The Wiradjuri People".

What I record and find is dedicated to those who have gone before us, to those present and to those who will follow us".

Mark Saddler, Wiradjuri Gibirr (man)

Travelling Stock Reserves (TSRs)

Travelling Stock Reserves (TSRs) are parcels of Crown land reserved under legislation for use by travelling stock. Local Land Services is responsible for the care, control and maintenance of almost 500,000ha of TSRs in NSW.

TSRs provide pasture reserves for travelling or grazing stock. These reserves can be beneficial in times of drought, bushfire or flood. They are also used for public recreation, apiary sites and for conservation.

Local Land Services manages the land to strike a balance between the needs of travelling or grazing stock and the conservation of native species.

The role of Local Land Services role in managing TSRs includes:

- *Authorising and monitoring stock, recreation and apiary site use*
- *Controlling noxious weeds*
- *Controlling pest animals and insects*
- *Provision and maintenance of fencing, watering points and holding yards*
- *Consideration of land management and animal health legislation.*

Local Land Services has developed the first draft state-wide planning framework for TSRs to support the future management of this land. We are now keen to hear from the public with their opinions on how to manage TSRs in the future. We want to understand the values people hold important for TSRs, including biodiversity and Aboriginal cultural heritage values.

The draft state-wide framework allows for the development of TSR regional management plans to facilitate more consistent and transparent management, resourcing and reporting.

NSW Travelling Stock Reserves Draft State Planning Framework 2016-19
TSR State Planning Framework Fact Sheet
Frequently asked questions

Aboriginal objects:

Aboriginal objects are physical evidence of the use of an area by Aboriginal people. They can also be referred to as 'Aboriginal sites', 'relics' or 'cultural material'.

Aboriginal objects include:

** Physical objects, such as stone tools, Aboriginal-built fences and stockyards, scarred trees and the remains of fringe camps*
** Material deposited on the land, such as middens*
** The ancestral remains of Aboriginal people.*

Handicrafts made by Aboriginal people for sale are ***not*** *'Aboriginal objects' under the NPW Act.*
Known Aboriginal objects and sites are recorded on OEH's Aboriginal Heritage Information Management System (AHIMS). If you find a site you should report it to us.

Protecting Aboriginal objects and places:

You will need to exercise due diligence in determining whether your actions will harm Aboriginal objects. The ***Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW***
http://www.environment.nsw.gov.au/resources/cultureheritage/ddcop/10798ddcop.pdf
This link will explain and provide practical guidance about what due diligence means. Anyone who exercises due diligence in determining that their actions will not harm Aboriginal objects has a defence against prosecution for the strict liability objects offence if they later harm an Aboriginal object.

An Aboriginal Heritage Impact Permit (AHIP) can be issued by OEH under Part 6 of the NPW Act where harm to an Aboriginal object or Aboriginal place cannot be avoided. An AHIP is a defence to a prosecution for harming Aboriginal objects and/or Aboriginal places if the harm was authorised by the AHIP and the conditions of that AHIP were not contravened.

Find out about AHIPs, due diligence and care agreements see ***Information on Aboriginal Heritage Impact Permits.***
http://www.environment.nsw.gov.au/licences/Section87Section90.htm

Purpose of code of practice for Due Diligence.

This code of practice is to assist individuals and organisations to exercise due diligence when carrying out activities that may harm Aboriginal objects and to determine whether they should apply for consent in the form of an Aboriginal Heritage Impact Permit (AHIP). The National Parks and Wildlife Act 1974 (NPW Act) provides that a person who exercises due diligence in determining that their actions will not harm Aboriginal objects has a defence against prosecution for the strict liability offence if they later unknowingly harm an object without an AHIP.

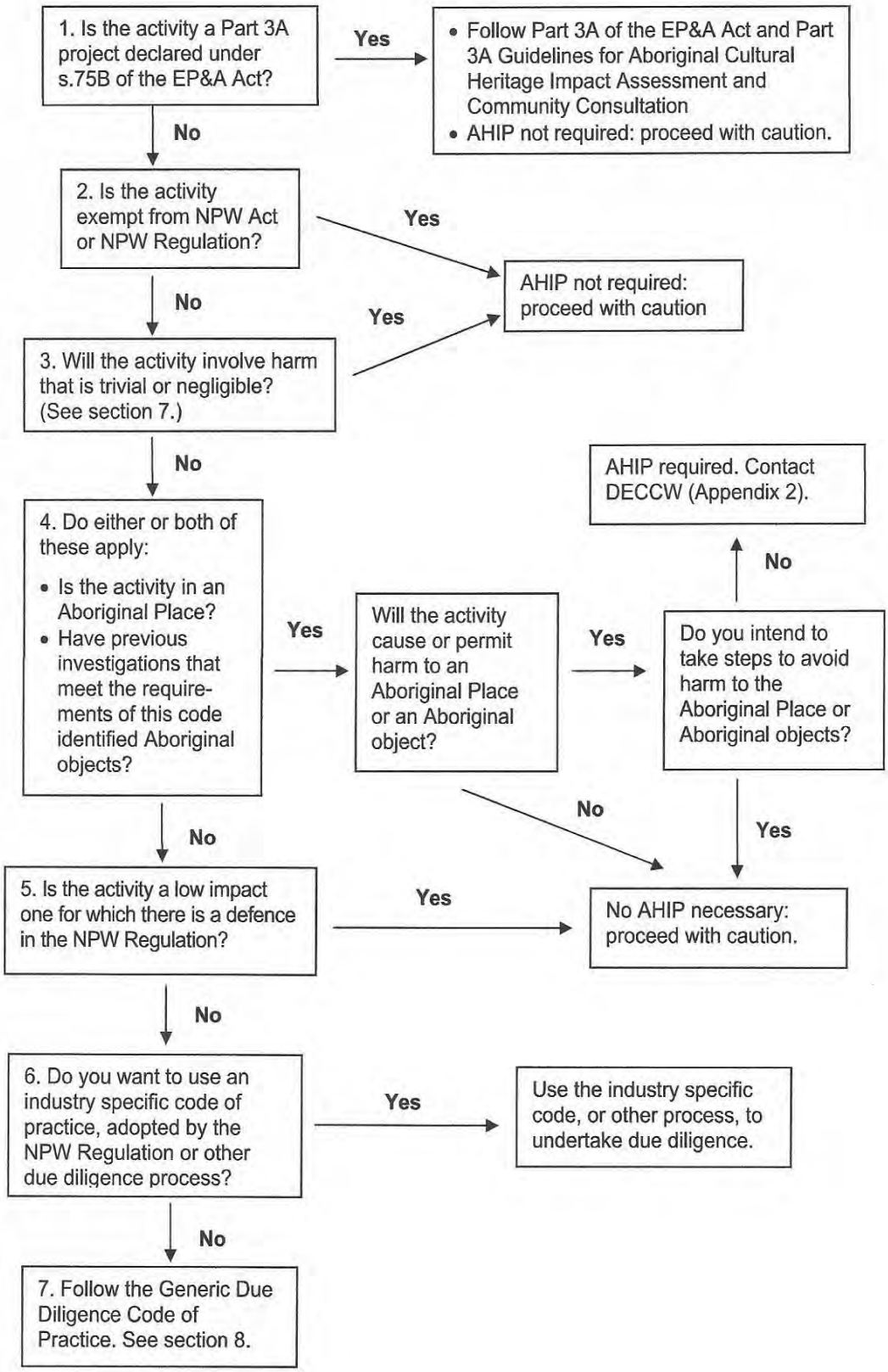
The NPW Act allows for a generic code of practice to explain what due diligence means. Carefully following this code of practice, which is adopted by the National Parks and Wildlife Regulation 2009 (NPW Regulation) made under the NPW Act, would be regarded as 'due diligence'. This code of practice can be used for all activities across all environments.

This code sets out the reasonable and practicable steps which individuals and organisations need to take in order to: 1 identify whether or not Aboriginal objects are, or are likely to be, present in an area 2 determine whether or not their activities are likely to harm Aboriginal objects (if present) 3 determine whether an AHIP application is required.

If Aboriginal objects are present or likely to be present and an activity will harm those objects, then an AHIP application will be required. Information about the permits and how to apply for them can be obtained through the Department of Environment, Climate Change and Water (DECCW) website at

www.environment.nsw.gov.au/licences/index.htm.

1 Do you need to use this due diligence code?



AHIMS Data Base Search.

AHIMS Web Services (AWS)
Search Result

Your Ref/PO Number : 17.5.23

Client Service ID : 782623

Mark Saddler

Date: 17 May 2023

P.O.Box 8005 Kooringal Post Office
Kooringal New South Wales 2650

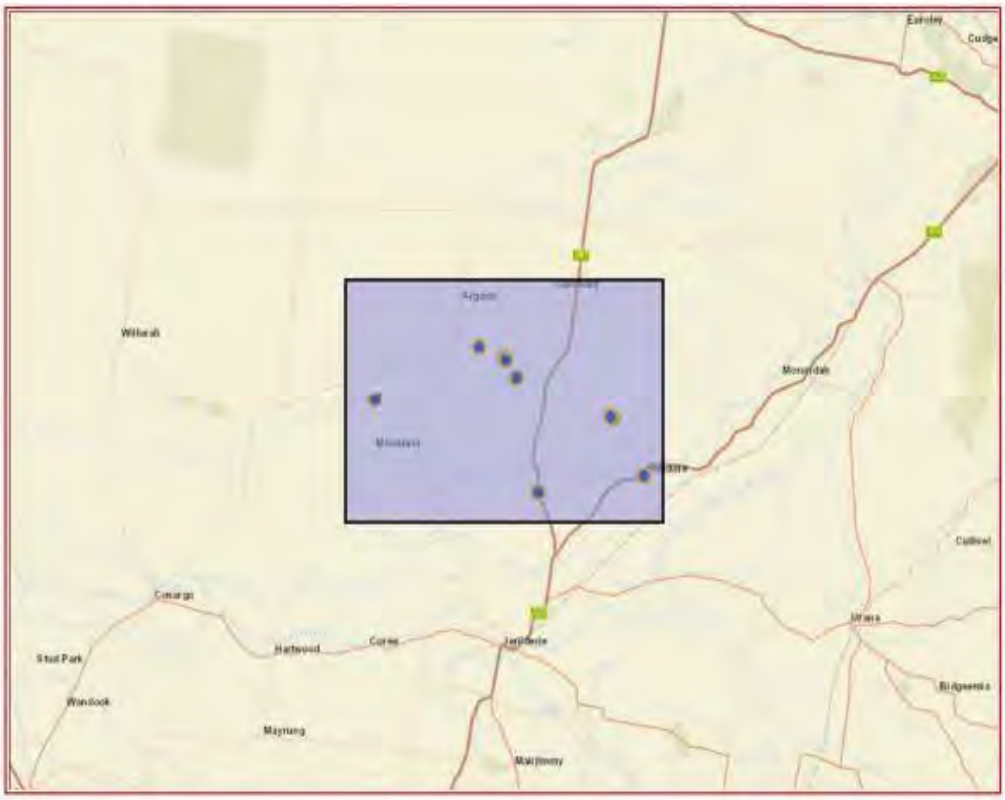
Attention: Mark Saddler

Email: marksad@live.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -35.214, 145.4789 - Lat, Long To : -34.937, 145.9733, conducted by Mark Saddler on 17 May 2023.

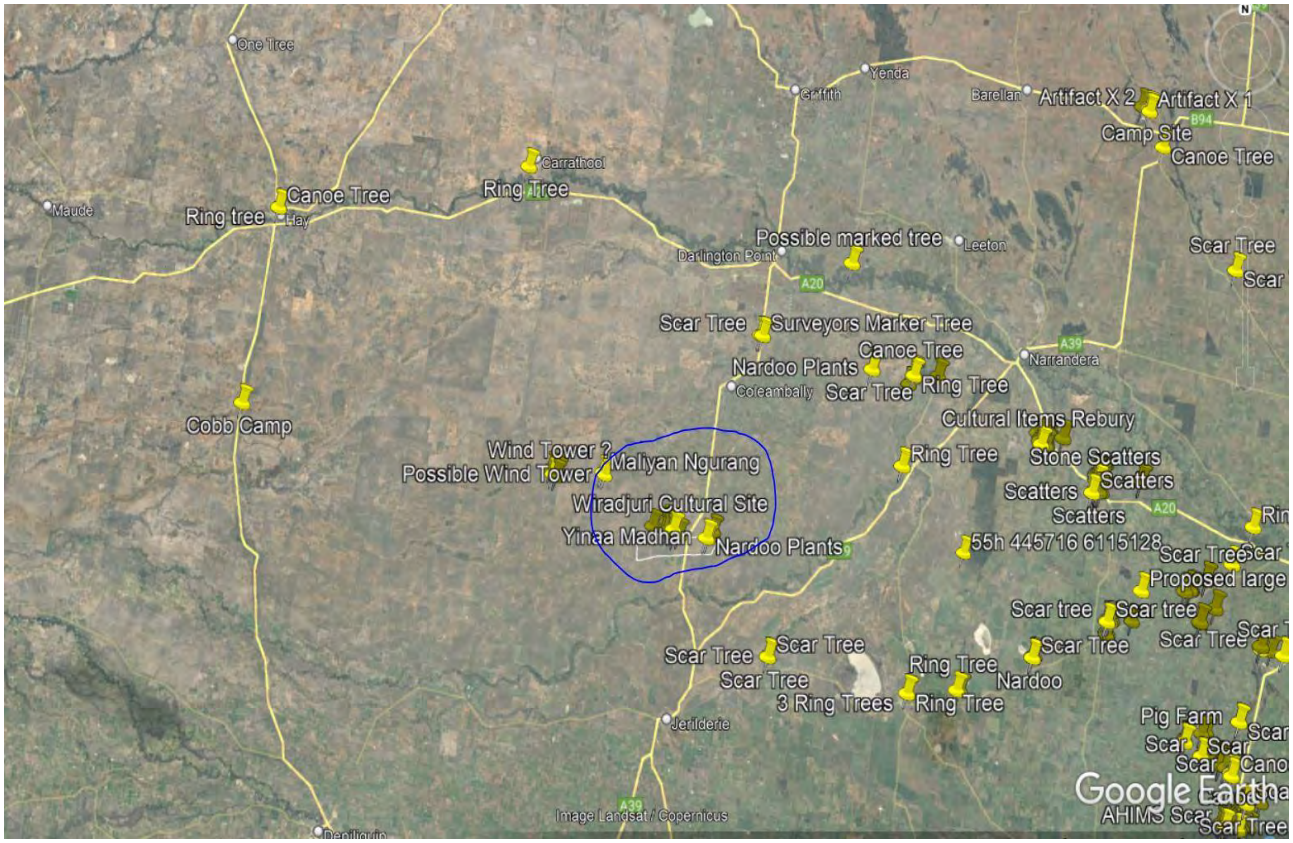
The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.

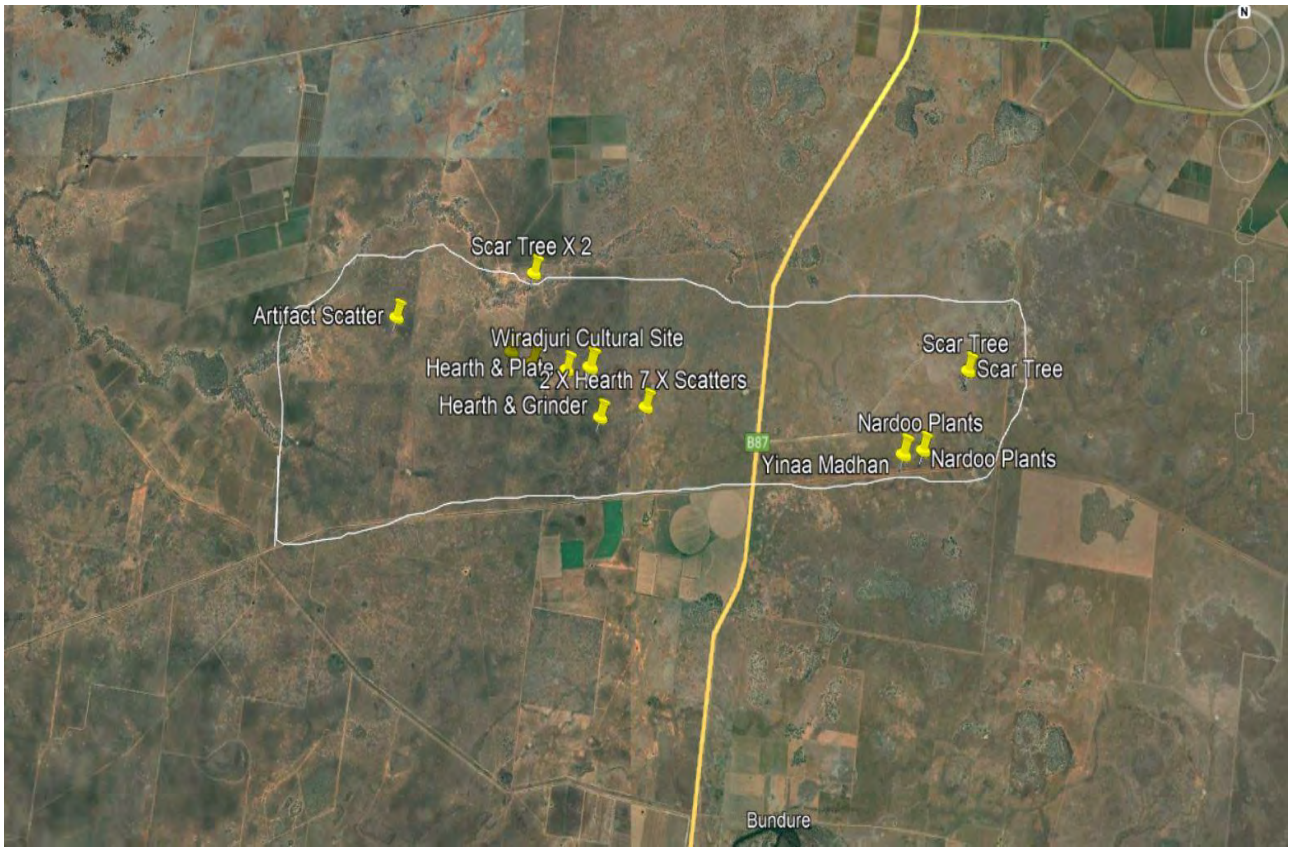


A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

15	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

Map and reference location to site:





Site recordings and location of site cards relevant to this site:

Site name	*Dinawan Solar Farm. NSW*		
Recorder	*Mark Saddler*		
Contact details	*Ph 0412 693 030*	*Email:*	*marksad@live.com.au*
Date prepared	*17/05/2023*	*Web:*	*http://www.bundyiculture.com.au/*

AHIMS ID (Site Card ID)	*Site Type*	*Location of Site Cards on Web Page.*	*Date Recorded*

Any site cards that will be done will be recorded by EMM Consulting. Please contact them.

Contact Information

Stakeholder details	***Responsibilities***	
Sparks Renewables Will Stone	***Proponent***	***0468 745 736***
Griffith Aboriginal Local Lands Council	***Cultural Advisor***	
Bundyi Cultural Services, Mark Saddler	***Culture Advisor, Recorder, Knowledge Holder***	***0412 693 030***
EMM Consulting, Alan Williams	***Heritage Consultant***	***02 9493 9584***

To find out more about Cultural Site Management, rules and protection go to this these web page links for more in depth information.

Do you need to use the due diligence code?

http://www.environment.nsw.gov.au/resources/cultureheritage/ddcop/10798ddcop.pdf

*OEH **legislation** which ensures that Aboriginal cultural heritage must be considered as part of land management practices.*

http://www.environment.nsw.gov.au/conservation/aboriginalculture.htm

Site Report and Recommendations.

17/05/2023

Dinawan Solar Farm, Coleambally, NSW. Wiradjuri Country.

On my site inspections from12/04/2023 I walked and covered a very large area of the proposed Dinawan Solar Farm to assist in locating and recording artifacts for safe keeping and protection. This work is to assist for possible construction works of a large solar farm.

Coleambally is a word that is from derived our Wiradjuri language and means "fast bird" (Swift Parrot) This area is a very spiritual place for my Wiradjuri people and as such has many special places, songlines and dreaming places that my people have cared for and continue to have connection too for over 80,000 + years.

Whilst I was on country, I witnessed many Dinawan (Emu) Womboin (Kangaroo) Ngarung (Lizards) and Budyaan (Birds) The area also is home to Maliyan (Wedge Tail Eagle) and as such Maliyan has many extremely large nests in the area. The habitat for all these animals must be taken into consideration when this solar farm is designed.

On inspection of the solar farm area, I found that most of the Wiradjuri/Aboriginal camping areas that we located, that also contained historical finds, seem to be located on the Eastern side of the many smaller wetland areas that are in this area. That leads me to believe that this place is one that Wiradjuri people visited and lived here in the warmer months of the year.

I have relayed to EMM Consulting that the places and items we have recorded are to be left insitu and not disturbed. I have also asked that we do "test excavations" in several areas so as to analyse the ground that lays beneath some of the areas that we deemed as "significant".

I also insist that if and when construction starts on this site, that at least 2 local RAP (Registered Aboriginal Parties) are employed to monitor the site for any "Unexpected Aboriginal Finds" One of these RAP should also be qualified to be able to identify and register any items found directly to the AHIMS site for protection. For your information I have these qualifications. These monitors will be ongoing employment/contracted for the work period of the construction and also of any soil disturbance.

I have also created and produced several drone videos of the area that will give you a much better overview of the area as well as a better understanding of the position of some of the special areas and items that we recorded. These videos have been supplied to Sam Elias from EMM Consulting and also to Will Stone from Sparks Renewables.

I believe that this Solar Farm will increase NSW's capacity to keep up with the growing demand for energy and also for employment. I would also ask that at least 10 % of the needed workforce be from the local Wiradjuri/Aboriginal community.

To understand more about working in and around aboriginal sites look at the procedures to work around Aboriginal sites. Information can be found at this link,
http://www.aboriginalheritage.org/sites/legislation/

References:

OEH, http://www.environment.nsw.gov.au/

Local Land Services, http://www.lls.nsw.gov.au/livestock/stock-routes

Mark Saddler, Cultural Advisor and Knowledge holder, www.bundyiculture.com.au

Goggle Earth Maps, https://www.google.com/earth/

Aboriginal Heritage, http://www.aboriginalheritage.org/sites/legislation/

Prepared by:

Mark Saddler, Bundyi Cultural Services

P.O.B 8005 Kooringal Post Office NSW 2650

Ph: 0412 693 030

Email: marksad@live.com.au

Web: www.bundyiculture.com.au

Copyright Mark Saddler Artwork and Photography and Report.

Level 3 175 Scott Street
Newcastle NSW 2300
02 4907 4800
www.emmconsulting.com.au

Memorandum

5 July 2023

To: Taylar Reid

From: Sonya Pascoe

Subject: SIA engagement summary

Dear Taylar,

This memorandum is provided to summarise key outcomes arising from social impact assessment (SIA) engagement activities carried out for the Dinawan Energy Hub. Interviews and group discussions were held in June 2023 with representatives from the First Nations community, including a number of registered Aboriginal parties (RAPs) that participated in cultural heritage fieldwork for the project.

SIA engagement activities, stakeholders, and dates are shown in Table 1 below. A summary of engagement outcomes has been combined and are presented in Table 2, and can also be found in Section 5.3 of the SIA report.

Table 1 SIA specific engagement activities and participants – First Nations stakeholders

Stakeholder	Engagement activity	Date
RAPs - 2 individuals	Group discussion	6 June 2023
RAP - Bidya Marra Consultancy representative		
Local Aboriginal community member	Group discussion	9 June 2023
RAP – Griffith LALC representative		
Griffith Aboriginal Medical Service employee	Face-to-face interview	9 June 2023

Table 2 First Nations stakeholders SIA engagement outcomes

Theme / Issue	Notes
Project decision-making and stakeholder engagement	• Strong interest in being consulted and partnered with at various stages of project planning, construction and operation • Important to provide culturally safe space for training and engaging with the Aboriginal community • Building trust with non-Aboriginal people is still challenging for some individuals in the Aboriginal community.
Local characteristics and community values	• Concern about environmental impacts from the project, including flora and fauna, landscape changes • Country is *"our safe space"* • Broadly speaking, the Aboriginal community are not compensated for the loss of land that get developed on: – Being on Country provides benefits for mental health and physical health – *"We don't want to hand it over without a fight"* – The local Aboriginal community *"can't be bought"* • There is a need to reconnect mob with culture: land, language and community, noting the plethora of social challenges including impacts of colonisation, homelessness and substance use • Strong desire to cut the cycle of unemployment and substance use amongst the community
Project employment, procurement and training	• Important to train those in the local Aboriginal community in cultural heritage, as the knowledge holders in the area are getting older and are passing or less able to carry out the work • Strong interest expressed in capacity building, project training and employment opportunities • Important to have training and employment opportunities close to home • Suggestions to partner with local training providers, including TAFE and local colleges, to provide training for construction roles as well as cultural heritage skills • Barriers to employment and training include: lack of transport, lack of engagement school aged students, lack of engagement with girls and women, unstable housing, access to childcare, education costs, lack of opportunities close to home, coordinating various documentation (i.e., identification and certificates), and lack of ongoing/long-term opportunities, and substance use. • Stress importance of cultural awareness training for personnel on the Project site, and importance of cultural safety on site. Sometimes construction sites are the first instance of people interacting with an Aboriginal person – there needs to be things in place to make sure this is not a negative experience for anyone • Noted that Wiradjuri have a culture of matriarchy, yet women often are missing out on training and employment opportunities. Noted several male-based programs exist in the area to support training and employment, very few targeted at girls and women • Feel like the project would benefit from having someone from the Aboriginal community employed across all stages of the project, i.e., from heritage survey work, construction phase (including managing incidental finds), to operational phase. • Training and employment benefits beyond the individual, it benefits their family and community, and acts to provide stability for the individual.
Business and livelihoods	• There are opportunities to involve Aboriginal owned businesses and individuals in the operation of a worker accommodation facility for the Project.

Table 2 First Nations stakeholders SIA engagement outcomes

Theme / Issue	Notes
Accommodation and housing	• There are issues of homelessness and housing insecurity amongst the Aboriginal community across Darlington Point, Griffith, and Narrandera • Experience with other projects shows that there is a pattern of landlords increasing rental prices when fluctuations of workers need accommodation in town. This results in local people not being able to afford rentals and become homeless or rent elsewhere. There are very few rentals in the regional area – so can be very difficult to find a place nearby • Social housing in the area has very long waiting lists • Use of a worker accommodation facility is ideal to not add pressure on existing housing issues • Couch-surfing is common in the area, due to lack of services to support those experiencing housing insecurity.
Services	• There is a lack of health and support services for Aboriginal people in the area • Health and support services lack capacity to address social needs amongst the Aboriginal community, including for substance use, housing, and mental health
Cultural heritage	• Strong interest in learning cultural heritage skills so knowledge can be carried on to next generation • Importance of having local Aboriginal workers on site to assist with incidental finds, and their management • Strong value for embracing cultural heritage through connection with, and caring for, Country • Cultural heritage knowledge supports connection with ancestors.
Community benefit sharing suggestions	• Suggestions to support capacity building, training and employment : – paid incentives to attend training – scholarships and traineeships – especially for girls and women – use of local colleges and training facilities to minimise travel – carry out "ID days" to assist community to coordinate IDs, certificates, licenses, confirmation of Aboriginality etc. – organise transportation to ensure attendance at training facilities – i.e. fund a bus – this would have legacy benefits beyond the project life – Support people in Aboriginal community to register a business (i.e., obtaining ABN, tax management) • Suggest that there could be a "community alliance agreement" or a "partnership agreement" – Important to have commitments in writing – Monthly or quarterly meetings to report back to the community on progress • Other ideas for community benefit-sharing: – Provide electricity discounts to people in the local Aboriginal community undergoing financial hardship – Assist first homeowners – rent to buy – Support/partner with drug and alcohol, housing and other support services to increase service provision/capacity – Train local Aboriginal people to provide tourism services to promote culture locally.

Yours sincerely

Sonya Pascoe
Social Planner
spascoe@emmconsulting.com.au

Meg Ferrier

From: Alan Williams
Sent: Wednesday, 17 August 2022 8:59 PM
To: Alan Williams
Cc: Kate Cox; David Richards
Subject: Dinawan Energy Hub - ACH - project update

Dear All

Thank you for your ongoing interest in the Aboriginal cultural heritage investigations of the proposed Dinawan Energy Hub between Jerilderie and Coleambally. This project was initially notified to your organisation in late 2021, with additional information on the project provided in late February 2022. This latest communication was undertaken by Austral Archaeology Pty Limited and included reporting results of a preliminary investigation (primarily a desktop review), and a proposed assessment methodology for field survey of the study areas. The proposed works in this document have not been enacted to date.

Since February 2022, Spark Renewables Pty Limited – the Proponent – has undertaken a process to identify and engage a consultant to undertake the broader environmental impact assessment of the two projects (the solar farm and the wind farm). Aboriginal heritage forms a part of this broader environmental consideration of the projects, which also includes studies such as ecology, traffic, noise, etc. The proposed works by Austral Archaeology have been paused while this process has been undertaken.

Recently, EMM Consulting Pty Limited has been engaged to undertake the scoping phase of this process. This is the first step in the process, and includes the development of a short document that is provided to the NSW Department of Planning and Environment (DPE) to advise them of the project and seek their feedback on the environmental assessment requirements that Spark Renewables would need to undertake for them to assess the project. From an Aboriginal heritage perspective, the scoping report will utilise the preliminary information developed by Austral Archaeology, so there is unlikely to be any further activities or inputs into this document. It is, however, expected that advice from DPE will be that a formal Aboriginal cultural heritage assessment for the two projects would be required. This is the process briefly outlined in Austral Archaeology's February 2022 advice.

Spark Renewables and/or EMM will be in contact in the coming weeks and months as the scoping report is completed, and the larger environmental assessment (including Aboriginal heritage) progresses. In the meantime, if you have any questions, please don't hesitate to contact me on 0438 104 740

Thanks
Al

Dr Alan Williams FSA FRSA MAACAI
Associate Director

National Technical Leader, Aboriginal Heritage

Bushfire, Ecology, Heritage and Spatial Solutions

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T 02 9493 9500
M 0438 104 740
D 02 9493 9584
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Meg Ferrier

From: Roley Williams <williamsroley14@gmail.com>
Sent: Wednesday, 12 April 2023 8:15 PM
To: Taylar Reid
Cc: David Richards; Alan Williams; Kate Cox; julian.kasby@sparkrenewables.com; Samuel Elias; Melanie Thomson
Subject: Re: Dinawan Energy Hub | AFG Meeting 2 | 11 April 2023
Attachments: image003.png

CAUTION: This email originated outside of the Organisation.

Thanks for the update.
Roley 👍

On Wed., 12 Apr. 2023, 7:59 pm Taylar Reid, <treid@emmconsulting.com.au> wrote:

> Hi All,
>
> Thank you for those who attended the meeting yesterday, 11 April 2023, apologies to those I missed. Below is a discussion around what happened, please let me know if there are any inaccuracies or anything else that can be added, and I will update accordingly. Thank you.
>
> **Location:**
>
> Red Door Café, 90 East Street, Narrandera NSW, 1:30PM
>
> Griffith LALC, 5 Wiradjuri Place, Griffith NSW, 4PM

Present:

Red Door Café

Taylar Reid (EMM), Julian Kasby (Spark), Bruce Crowe and James Ingram (Bidya Marra Consultancy), Roland Atkinson and David Edwards (Bangarang Aboriginal Corporation & Cummeragunja LALC), Jason Matthews and Roley Williams (Roley Williams/Individual).

Griffith LALC

Taylar Reid (EMM), Julian Kasby (Spark), Mark Saddler (Bundyi Aboriginal Cultural Knowledge), Allan McKenzie and Stephen Young (Griffith LALC).

Apologies:

David Crew (Yarkuwa Indigenous Knowledge Centre), Roslyn Simpson (Griffith LALC). DC & RS confirmed meeting minutes would be sufficient and would contact TR to discuss if necessary.

Summary of Meeting:

- Welcome to Country (Roley Williams and Mark Saddler)
- TR gave a briefing of Solar Farm survey works completed to date, including additional Solar Farm survey and test excavation, and the upcoming Wind Farm survey plan.
- Discussion occurred around the numerous Aboriginal ancestral remains that have been found in the region and potential for remains to occur in Project Area where deeper soils exist.
- TR noted the Wind Farm has some sand dune mapping and will be targeted during survey, including other watercourses and stands of mature trees remain.
- Proposed fieldwork plan was discussed prior and confirmed with RAPs, outlined below.

Key Outcomes and Actions:

- Week 1 of Solar Farm survey resulted in 22% coverage (550ha) of the Solar Footprint and identified 11 previously undocumented Aboriginal sites: six hearths, three artefact scatters (low-density), and two hearths with artefacts.
- Heritage NSW recently rejected the Yanco Delta Wind Farm (YDWF) ACHA in February for insufficient survey coverage (10% of the project area). The YDWF lies immediately to the south of the Project Area on a similar landscape with low visibility. EMM has received advice from Heritage NSW for other projects (Central West Orana Transmission Line) that 70% coverage was considered robust.
- EMM Soils and Contaminated Land team identified several localities within the Solar Farm footprint with aeolian/alluvial topsoils ranging 30 cm – 70 cm deep in association with a paleochannel, notably in the south-eastern portion of the Solar Footprint.
- Additional Solar Farm survey will target these areas and the suitability for test excavation, as well as any additional areas of interest identified during the survey activities.
- Discussion occurred around Aboriginal ancestral remains recorded in the region, including the Limondale Solar Farm in Balranald (EMM), Dry Lake near Euroley, Koonadan in Leeton, and Lake Boga west of the Project Area. Sand dunes will be targeted during Wind Farm survey (19 April – 12 May 2023).
- Wind Farm spans a very large footprint with ~250 turbines proposed. Will not be possible to survey every location, however areas of high potential (sand dunes, watercourses, stands of mature vegetation) will be targeted as well as ensuring a representative sample of landforms are surveyed.
- Mark Saddler – noted the old river red gum tree identified during the first week of survey may be a women's tree. The limbs have been trained to grow down into the ground and do not appear natural. The site will be visited during survey on 12 April 2023.
- Proposed fieldwork plan: 12 – 18 April 2023, additional Solar Farm survey. 19 April – 12 May 2023, Wind Farm survey. Roster and dates have been confirmed with RAPs but activities may shift to allow completion of Solar Farm test excavation prior to finalising Wind Farm survey. Test excavation for Wind Farm area will be determined following the survey outcomes and in discussion with RAPs.

Kind regards,

Taylar Reid
Senior Archaeologist

Bushfire, Ecology, Heritage and Spatial Solutions

M 0418 299 575

T 02 9493 9500

D 02 4907 4847

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Samuel Elias

From: Megan Sheppard Brennand
Sent: Thursday, 18 May 2023 4:07 PM
To: James Ingram
Cc: Alan Williams; David Richards; Melanie Thomson; Samuel Elias; Taylar Reid
Subject: RE: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

Thanks James,

Looking forward to having them out on site.

Details are -

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 29 May 2023**.

Rate: [redacted] x 8 hour days [redacted]

Hours: 8AM – 4PM

Additional: [redacted] for fuel costs

Thanks,
Megan

Megan Sheppard Brennand
Senior archaeologist

T 02 9493 9500
M 0407 656 226
www.emmconsulting.com.au

From: James Ingram <ingram.james1959@gmail.com>
Sent: Thursday, May 18, 2023 4:04 PM
To: Megan Sheppard Brennand <msheppardbrennand@emmconsulting.com.au>
Cc: Alan Williams <awilliams@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Melanie Thomson <mthomson@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; Taylar Reid <treid@emmconsulting.com.au>
Subject: Re: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

CAUTION: This email originated outside of the Organisation.

Hi Megan

I have spoken to the two Bidya Marra Consultancy workers and we have moved all our other commitments around to accommodate these work duties.

Could you please advise the meeting location and start time for the 29th of May through to the 2nd of June 2023. Will there be a fuel allowance made available?

Regards

James Ingram

Bidya Marra Consultancy

Wiradyuri NSW Australia

On Thu, 18 May 2023 at 2:11 pm, Megan Sheppard Brennand <msheppardbrennand@emmconsulting.com.au> wrote:

> Hi James,
>
> Thank you for your time on the phone earlier. I would like to confirm that we would like you to provide two site representatives to assist with the Dinawan Solar test excavation from **29 May – 2 June 2023**.
>
> Please refer to Taylar's email below for all other site details. Feel free to contact me by phone or email if you have any further questions.
>
> Thanks,
>
> Megan
>
> **Megan Sheppard Brennand**
> Senior archaeologist
>
> **T** 02 9493 9500
>
> **M** 0407 656 226
>
> www.emmconsulting.com.au
>
> ---
>
> **From:** Taylar Reid <treid@emmconsulting.com.au>
> **Sent:** Thursday, May 11, 2023 2:57 PM
> **To:** ingram.james1959@gmail.com
> **Cc:** Megan Sheppard Brennand <msheppardbrennand@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Melanie Thomson <mthomson@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>
> **Subject:** Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023
>
> Hi James,
>
> Thank you so much for speaking with me again today. As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact

details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. Thank you so much for providing such excellent site representatives over the past few weeks! I will miss everyone while I'm overseas.

As this is a new phase of work we will need to re-sign the contracts. Please print and sign the attached Conditions of Engagement of Sub-Consultants, and if you could provide your insurances again (Worker's Comp and Public Liability) that would be great.

Dinawan Solar Test Excavation

Please provide one site representative to assist with the Dinawan Solar test excavation from **29 May – 2 June 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 29 May 2023**.

Rate: [redacted] x 8 hour days ([redacted]

Hours: 8AM – 4PM

Additional: [redacted] for fuel costs

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. If you have any issues please contact Megan as a first point of contact, details below.

EMM Contacts:

Megan Sheppard-Brennand

Senior Archaeologist

Mobile: 0407 656 226

msheppardbrennand@emmconsulting.com.au

Sam Elias

Archaeologist

Mobile: 0431 029 429

selias@emmconsulting.com.au

Dave Richards

Associate Environmental Scientist (Project Manager)

Mobile: 0405 593 675

drichards@emmconsulting.com.au

Kind regards,

Taylar Reid
Senior Archaeologist

Bushfire, Ecology, Heritage and Spatial Solutions

M 0418 299 575

T 02 9493 9500

D 02 4907 4847

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Meg Ferrier

From: Alan Williams
Sent: Thursday, 4 May 2023 1:33 PM
To: OEH HD Heritage Mailbox
Cc: Kym McNamara Heritage NSW; Nicole.Davis@environment.nsw.gov.au; David Richards; Taylar Reid
Subject: Dinawan Solar Farm - ACH - test excavation notification
Attachments: HER001_SolarHeritage_20230504_10.pdf; E220305_Methods_Solar_V1.0_Final.pdf

Dear Kym, Nic and ACH Team,

In accordance with Requirement 15 of the Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW, we wish to advise that EMM Consulting Pty Ltd is proposing to undertake Aboriginal archaeological test excavations for Dinawan Solar Farm (SSD-50725959) between 22 May 2023 and mid-June 2023.

Further details of these excavations are included in the attached documentation (refer Section 4.3 provided to the RAPs on 23 January 2023) and supplemented with the attached figure on 4 May 2023, which identifies potential extent of test excavation (A and B) within the proposed development footprint.

Test pits may also be undertaken at select Aboriginal sites identified within the development footprint to confirm validity of some site types should it be required.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

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M 0438 104 740
D 02 9493 9584
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Associate Investigator
ARC Centre of Excellence for Australian Biodiversity and Heritage (CABAH)

Adjunct Senior Lecturer
School of Biological, Earth and Environmental Sciences
University of New South Wales,

Industry Fellow
Institute of Sustainable Futures
University Technology Sydney

University of New South Wales
Sydney, NSW 2052

Sydney, NSW 2052

Ultimo, NSW 2007

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Meg Ferrier

From: Nicole Davis <Nicole.Davis@environment.nsw.gov.au>
Sent: Friday, 5 May 2023 12:19 PM
To: Alan Williams
Cc: Kym McNamara; David Richards; Taylar Reid
Subject: Heritage NSW Reply - Dinawan Solar Farm - ACH - test excavation notification

CAUTION: This email originated outside of the Organisation.

Hi Al,

Thank you for your notification as per Requirement 15 of the CoP - in relation to the upcoming Aboriginal archaeological test excavations, at the proposed Dinawan Solar Farm (SSD-50725959), I shall place file for future reference.

Cheers Nic

Nicole Davis
Manager Assessments
Heritage NSW
Department of Planning and Environment

T 02 4927 3156 M 0409 394 343 E nicole.davis@environment.nsw.gov.au
Locked Bag 5020 Parramatta 2124

From: Alan Williams <awilliams@emmconsulting.com.au>
Sent: Thursday, 4 May 2023 1:33 PM
To: OEH HD Heritage Mailbox <HERITAGEMailbox@environment.nsw.gov.au>
Cc: Kym McNamara <Kym.McNamara@environment.nsw.gov.au>; Nicole Davis <Nicole.Davis@environment.nsw.gov.au>; David Richards <drichards@emmconsulting.com.au>; Taylar Reid <treid@emmconsulting.com.au>
Subject: Dinawan Solar Farm - ACH - test excavation notification

Dear Kym, Nic and ACH Team,

In accordance with Requirement 15 of the Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW, we wish to advise that EMM Consulting Pty Ltd is proposing to undertake Aboriginal archaeological test excavations for Dinawan Solar Farm (SSD-50725959) between 22 May 2023 and mid-June 2023.

Further details of these excavations are included in the attached documentation (refer Section 4.3 provided to the RAPs on 23 January 2023) and supplemented with the attached figure on 4 May 2023, which identifies potential extent of test excavation (A and B) within the proposed development footprint.

Test pits may also be undertaken at select Aboriginal sites identified within the development footprint to confirm validity of some site types should it be required.

Happy to discuss
Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

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Sydney, NSW 2052

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Institute of Sustainable Futures
University Technology Sydney
Ultimo, NSW 2007

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Meg Ferrier

From: Alan Williams
Sent: Thursday, 4 May 2023 4:27 PM
To: Alan Williams
Cc: Taylar Reid; David Richards; Megan Sheppard Brennand
Subject: Proposed Dinawan Solar Farm - ACH - test excavations
Attachments: HER001_SolarHeritage_20230504_10.pdf

Dear All,

Thank you for your ongoing involvement with the proposed Dinawan Solar Farm. I understand from Taylar that the field survey out there is progressing well, and a few interesting sites and places are being found.

As we mentioned during our previous Aboriginal focus group meeting/s, and various provided documentation, one of the aims of the survey is to identify the need for, and the location of, test excavations where sub-surface cultural material may be present. The field team identified four areas, mostly lunettes, that were considered to have potential for subsurface material. Of these, two are proposed to be avoided through project re-design, the remaining two (A + B) in the attached figure are proposed for test excavations later in May.

The methodology for these works was outlined in our original methodology document in January and in discussions at the various meetings. However, the exact excavation locations were quite large, reflecting the desktop information available at that time, this attached figure provides the refined locations based on the field survey. Localised investigation of some of the identified sites, such as hearths may also be investigated in discussion with yourselves during the field program. The excavations would adopt Heritage NSW guidelines requirements and include small manually dug test pits across these areas, with sediment sieved through a mesh for cultural materials.

Taylar and the team will be in touch to discuss the logistics of this component of work, which I believe is being led by Megan (cc'ed here).

Happy to discuss

Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

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Meg Ferrier

From: Heritage NSW <support@zendesk.environment.nsw.gov.au>
Sent: Thursday, 4 May 2023 1:35 PM
To: Alan Williams
Cc: Nicole Davis; Kym McNamara; Heritagemailbox; David Richards; Taylar Reid
Subject: Request received 3975: Dinawan Solar Farm - ACH - test excavation notification

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Your request 3975 has been received and is being reviewed by our support staff.

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https://www.mailguard.com.au/mg

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Samuel Elias

From: Taylar Reid
Sent: Thursday, 11 May 2023 2:14 PM
To: grifflalc@bigpond.com
Cc: Megan Sheppard Brennand; Samuel Elias; David Richards; Alan Williams; Melanie Thomson
Subject: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023
Attachments: EMM_CoE_Subconsultants.pdf

Hi Stephen,

As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. Thank you so much for providing such excellent site representatives over the past few weeks! I will miss everyone while I'm overseas.

As this is a new phase of work we will need to re-sign the contracts. Please print and sign the attached Conditions of Engagement of Sub-Consultants, and if you could provide your insurances again (Worker's Comp and Public Liability) that would be great.

Dinawan Solar Test Excavation
Please provide one site representative to assist with the Dinawan Solar test excavation from **29 May – 2 June 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 29 May 2023**.
Rate: [redacted] x 8 hour days [redacted]
Hours: 8AM – 4PM
Additional: [redacted] for fuel costs

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. If you have any issues please contact Megan as a first point of contact, details below.

EMM Contacts:

Megan Sheppard-Brennand
Senior Archaeologist
Mobile: 0407 656 226
msheppardbrennand@emmconsulting.com.au

Sam Elias
Archaeologist
Mobile: 0431 029 429
selias@emmconsulting.com.au

Dave Richards
Associate Environmental Scientist (Project Manager)
Mobile: 0405 593 675
drichards@emmconsulting.com.au

Kind regards,

Taylar Reid
Senior Archaeologist
Bushfire, Ecology, Heritage and Spatial Solutions

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T 02 9493 9500
D 02 4907 4847
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Samuel Elias

From: Taylar Reid
Sent: Thursday, 11 May 2023 2:49 PM
To: carolyn.webb@justice.nsw.gov.au; grifflalc@bigpond.com
Cc: Megan Sheppard Brennand; Samuel Elias; David Richards; Alan Williams; Melanie Thomson
Subject: RE: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

Hi Allan,

I just received an automatic reply from Stephen regarding his current leave. I spoke with him earlier in the week and he confirmed that Roslyn would be available from **29 May – 2 June** to assist with the Solar test excavation (see below). As I will be going on leave tomorrow morning, I just wanted to ensure this made it to the Griffith LALC. There will be time when he returns to sign the conditions of engagement and provide insurances before the Griffith LALC are rostered to attend site, but I know your team is very busy and wanted to make sure that at least Meg's contact details (below) were received before I went on leave.

If you have any questions before 12pm tomorrow please give me a ring. Otherwise Meg can be contacted going forward.

Thanks!

Kind regards,

Taylar Reid
Senior Archaeologist
T 02 4907 4847
M 0418 299 575
www.emmconsulting.com.au

From: Taylar Reid
Sent: Thursday, May 11, 2023 2:14 PM
To: grifflalc@bigpond.com
Cc: Megan Sheppard Brennand <msheppardbrennand@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>; Melanie Thomson <mthomson@emmconsulting.com.au>
Subject: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

Hi Stephen,

As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. Thank you so much for providing such excellent site representatives over the past few weeks! I will miss everyone while I'm overseas.

As this is a new phase of work we will need to re-sign the contracts. Please print and sign the attached Conditions of Engagement of Sub-Consultants, and if you could provide your insurances again (Worker's Comp and Public Liability) that would be great.

Dinawan Solar Test Excavation
Please provide one site representative to assist with the Dinawan Solar test excavation from **29 May – 2 June 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 29 May 2023**.
Rate: [redacted]
Hours: 8AM – 4PM
Additional: [redacted]

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. If you have any issues please contact Megan as a first point of contact, details below.

EMM Contacts:

Megan Sheppard-Brennand
Senior Archaeologist
Mobile: 0407 656 226
msheppardbrennand@emmconsulting.com.au

Sam Elias
Archaeologist
Mobile: 0431 029 429
selias@emmconsulting.com.au

Dave Richards
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drichards@emmconsulting.com.au

Kind regards,

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Samuel Elias

From: Taylar Reid
Sent: Thursday, 11 May 2023 2:57 PM
To: ingram.james1959@gmail.com
Cc: Megan Sheppard Brennand; Samuel Elias; David Richards; Melanie Thomson; Alan Williams
Subject: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023
Attachments: EMM_CoE_Subconsultants.pdf

Hi James,

Thank you so much for speaking with me again today. As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. Thank you so much for providing such excellent site representatives over the past few weeks! I will miss everyone while I'm overseas.

As this is a new phase of work we will need to re-sign the contracts. Please print and sign the attached Conditions of Engagement of Sub-Consultants, and if you could provide your insurances again (Worker's Comp and Public Liability) that would be great.

Dinawan Solar Test Excavation

Please provide one site representative to assist with the Dinawan Solar test excavation from **29 May – 2 June 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 29 May 2023**.
Rate: [redacted]
Hours: 8AM – 4PM
Additional: [redacted]

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. If you have any issues please contact Megan as a first point of contact, details below.

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Mobile: 0407 656 226
msheppardbrennand@emmconsulting.com.au

Sam Elias
Archaeologist
Mobile: 0431 029 429
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Dave Richards
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drichards@emmconsulting.com.au

Kind regards,

Taylar Reid
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Samuel Elias

From: Taylar Reid
Sent: Thursday, 11 May 2023 3:02 PM
To: kevin.a@ahvic.org.au
Cc: Megan Sheppard Brennand; Samuel Elias; David Richards; Alan Williams; Melanie Thomson
Subject: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023
Attachments: EMM_CoE_Subconsultants.pdf

Hi Kevin,

As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. Thank you so much for providing such excellent site representatives over the past few weeks! I will miss everyone while I'm overseas.

As this is a new phase of work we will need to re-sign the contracts. Please print and sign the attached Conditions of Engagement of Sub-Consultants, and if you could provide your insurances again (Worker's Comp and Public Liability) that would be great.

Dinawan Solar Test Excavation
Please provide two site representatives to assist with the Dinawan Solar test excavation from **22 – 26 May 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 22 May 2023**.
Rate: [redacted]
Hours: 8AM – 4PM
Additional: [redacted]

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. Again we recommend staying at the Brolga Hotel in Coleambally ($95/night) to save on fuel costs and manage fatigue. If you have any issues please contact Megan as a first point of contact, details below.

EMM Contacts:

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Mobile: 0407 656 226
msheppardbrennand@emmconsulting.com.au

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Mobile: 0431 029 429
selias@emmconsulting.com.au

Dave Richards
Associate Environmental Scientist (Project Manager)
Mobile: 0405 593 675
drichards@emmconsulting.com.au

Kind regards,

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Samuel Elias

From: Taylar Reid
Sent: Thursday, 11 May 2023 3:17 PM
To: williamsroley14@gmail.com
Cc: Megan Sheppard Brennand; Samuel Elias; David Richards; Melanie Thomson; Alan Williams
Subject: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023
Attachments: EMM_CoE_Subconsultants.pdf

Hi Roley,

As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. It's been great working with yourself and Jason over the past few weeks. I will miss everyone while I'm overseas.

As this is a new phase of work we will need to re-sign the contracts. Please print and sign the attached Conditions of Engagement of Sub-Consultants, and if you could provide your insurances again (Worker's Comp and Public Liability) that would be great.

We have rostered yourself and Jason Matthews (or another site rep if he's unavailable) to assist with the Solar test excavation. If you begin to feel unwell when the excavation rolls around that's no problem, just let Meg or Sam know and we'll make adjustments. There is plenty of fieldwork coming up over the coming months and we are keen to have you involved when you're feeling up for it. As requested previously, there is a strong preference to obtain a Fit for Work letter from a doctor prior to attending site. The Solar test excavation area is closer to the Kidman highway and we have included two representatives for your group as an additional safety measure as well.

Dinawan Solar Test Excavation

Please provide two site representatives to assist with the Dinawan Solar test excavation from **22 – 26 May 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 22 May 2023**.
Rate: [redacted]
Hours: 8AM – 4PM
Additional: [redacted]

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. Again we recommend staying at the Brolga Hotel in Coleambally ($95/night) to save on fuel costs and manage fatigue. If you have any issues please contact Megan as a first point of contact, details below.

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Archaeologist
Mobile: 0431 029 429
selias@emmconsulting.com.au

Dave Richards
Associate Environmental Scientist (Project Manager)
Mobile: 0405 593 675
drichards@emmconsulting.com.au

Kind regards,

Taylar Reid
Senior Archaeologist
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Meg Ferrier

From: Taylar Reid
Sent: Thursday, 11 May 2023 3:26 PM
To: Mark Saddler
Cc: Megan Sheppard Brennand; Samuel Elias; David Richards; Melanie Thomson; Alan Williams
Subject: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023
Attachments: EMM_CoE_Subconsultants.pdf

Hi Mark,

As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. Thank you so much for your hard work over the past few weeks, it's been a pleasure. I will miss everyone while I'm overseas.

As this is a new phase of work we will need to re-sign the contracts. Please print and sign the attached Conditions of Engagement of Sub-Consultants, and if you could provide your insurances again (Worker's Comp and Public Liability) that would be great.

Dinawan Solar Test Excavation

Please provide one site representative to assist with the Dinawan Solar test excavation from **22 – 26 May 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 22 May 2023**.
Rate: you rates as previously agreed with Spark
Hours: 8AM – 4PM
Additional: we have booked you a room at the Brolga Hotel. Check in Monday 22 May and check out Friday 26 May.*

*In the event (for whatever reason) we need to move locations we will let you know and will rebook you with us.

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. If you have any issues please contact Megan as a first point of contact, details below.

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msheppardbrennand@emmconsulting.com.au

Sam Elias
Archaeologist
Mobile: 0431 029 429
selias@emmconsulting.com.au

Dave Richards
Associate Environmental Scientist (Project Manager)
Mobile: 0405 593 675
drichards@emmconsulting.com.au

Kind regards,

Taylar Reid
Senior Archaeologist
Bushfire, Ecology, Heritage and Spatial Solutions
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Meg Ferrier

From: Mark Saddler <marksad@live.com.au>
Sent: Wednesday, 17 May 2023 3:46 PM
To: Megan Sheppard Brennand
Cc: Samuel Elias; David Richards; Melanie Thomson; Alan Williams
Subject: RE: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

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#

From: Megan Sheppard Brennand
Sent: Wednesday, 17 May 2023 1:11 PM
To: Mark Saddler
Cc: Samuel Elias; David Richards; Melanie Thomson; Alan Williams
Subject: RE: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

#

Hi Mark,

Thanks for your time on the phone. As we chatted about, could you please reply and confirm you are ok with the details in the email below.

Thanks,
Megan

Megan Sheppard Brennand
Senior archaeologist

T 02 9493 9500
M 0407 656 226
www.emmconsulting.com.au

From: Taylar Reid <treid@emmconsulting.com.au>
Sent: Thursday, May 11, 2023 3:26 PM
To: Mark Saddler <marksad@live.com.au>
Cc: Megan Sheppard Brennand <msheppardbrennand@emmconsulting.com.au>; Samuel Elias <selias@emmconsulting.com.au>; David Richards <drichards@emmconsulting.com.au>; Melanie Thomson <mthomson@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>
Subject: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

Hi Mark,

As discussed over the phone earlier this week, this email is to confirm both the details for the upcoming Dinawan Energy Hub – Solar test excavation and provide the contact details for @Megan who will continue to manage Dinawan in my absence. If you need to reach me for any reason, I will be on leave from 12 May - 26 May 2023, then working remotely from Canada and reachable via email. Thank you so much for your hard work over the past few weeks, it's been a pleasure. I will miss everyone while I'm overseas.

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Dinawan Solar Test Excavation

Please provide one site representative to assist with the Dinawan Solar test excavation from **22 – 26 May 2023**.

Location: we will meet at **8AM** at the **Coffee Nest** in Coleambally on **Monday 22 May 2023**.
Rate: you rates as previously agreed with Spark
Hours: 8AM – 4PM
Additional: we have booked you a room at the Brolga Hotel. Check in Monday 22 May and check out Friday 26 May.*

*In the event (for whatever reason) we need to move locations we will let you know and will rebook you with us.

Please ensure your site representative has full PPE: sturdy footwear, long pants, long sleeved high-vis clothing, sun hat, sunnies, and gaiters. We will work in all safe weather conditions, so ensure they have appropriate warm layers and wet-weather gear, and sufficient food and water for a full day of work. If you have any issues please contact Megan as a first point of contact, details below.

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Archaeologist
Mobile: 0431 029 429
selias@emmconsulting.com.au

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Associate Environmental Scientist (Project Manager)
Mobile: 0405 593 675
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Kind regards,

Taylar Reid
Senior Archaeologist
Bushfire, Ecology, Heritage and Spatial Solutions

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Meg Ferrier

From: Keisha Egan <keisha.egan@yarkuwa.org.au>
Sent: Saturday, 15 April 2023 7:54 AM
To: Taylar Reid
Cc: David Crew; Liticia Ross; Tracey Hamilton; brandon.cooper@yarkuwa.org.au
Subject: Survey week 2

CAUTION: This email originated outside of the Organisation.

Hi Taylor ,

I just wanted to reach out to you in relation to next week's surveys . It looks like the areas being surveyed will not be on our country, this is an issue for us as we can't do surveys on other peoples country unless they ask . As a result of this we will not be able to attend . Can you please email the map of areas to be surveyed along with the dates they will be surveyed this will minimise conflict with other groups if we are only turning up to areas that we can survey . Appoligies for the late notice .

Keisha

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Meg Ferrier

From: Taylar Reid
Sent: Tuesday, 28 March 2023 10:49 AM
To: Mark Saddler
Cc: Melanie Thomson; Alan Williams
Subject: Dinawan Energy Hub | AFG 2, Thursday 6 April 2023

Hey Mark,

The second Aboriginal Focus Group meeting for the Dinawan Energy Hub will be held at **9AM** on **Thursday, 6 April 2023** at the **Tangles Café** (Bolton Street) in Narrandera. I anticipate it will only take 1-2 hours, and we will discuss the results of the solar survey and the next steps, as well as the upcoming survey plan for the wind component.

As we discussed, if you can make it in person on that day that would be great, but if the Lake Cargelligo excavation continues then we may have to meet the evening before we begin survey on the morning of the 12th April. There is no rush to decide, either works for me. Speak later in the week, good luck with the digging!

Kind regards,

Taylar Reid
Senior Archaeologist
Bushfire, Ecology, Heritage and Spatial Solutions

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Meg Ferrier

From: Auto-reply from grifflalc@bigpond.com <grifflalc@bigpond.com>
Sent: Thursday, 11 May 2023 2:14 PM
To: Taylar Reid
Subject: Re: Dinawan Energy Hub | Solar Test Excavation 22 May - 2 June 2023

CAUTION: This email originated outside of the Organisation.

_____

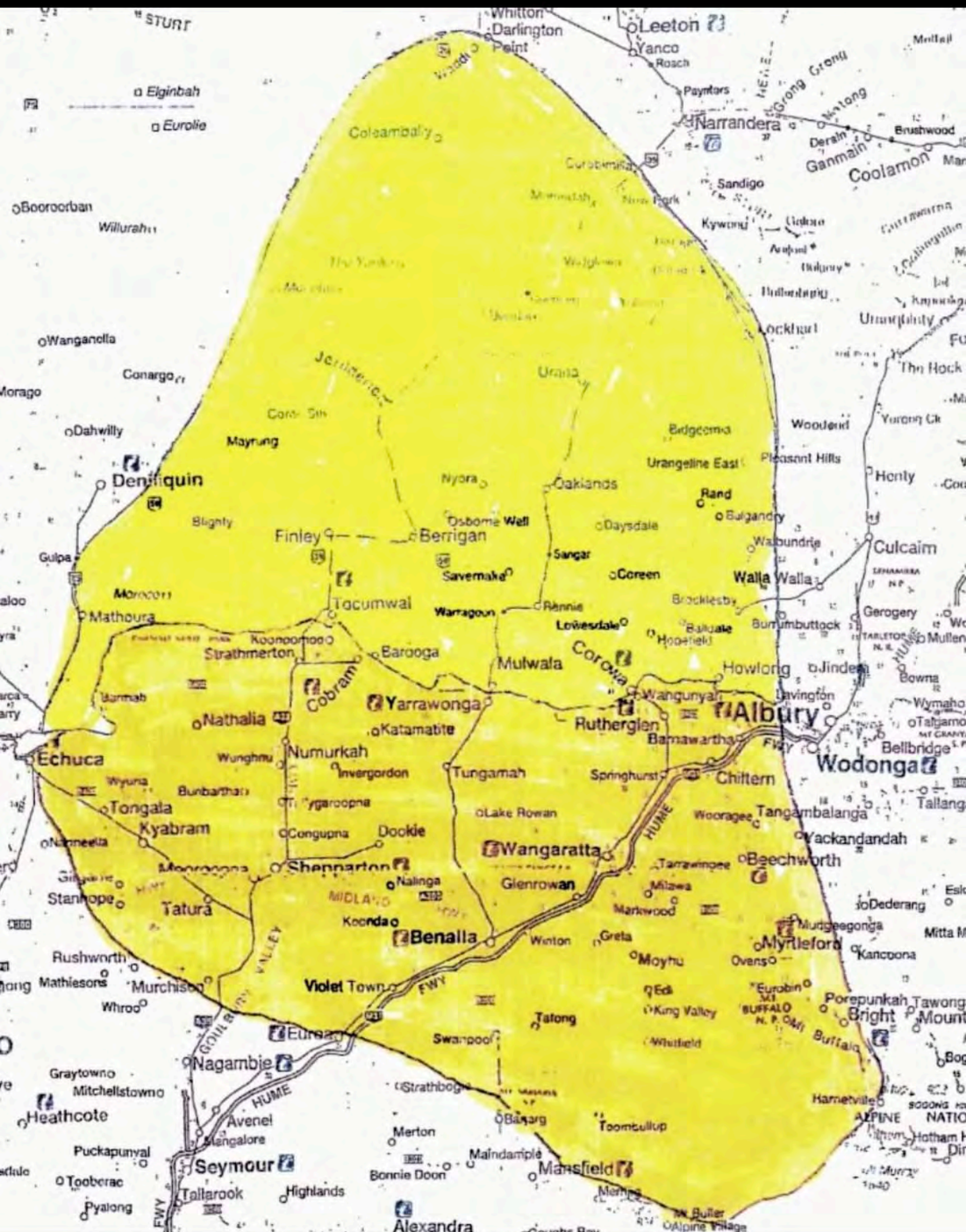
I am on leave from Monday 1st May 2023, and will return to work Monday 15th May 2023.

I will endeavour to follow up with a response to your contact upon my return.

In cases of an emergency only please contact me on mobile no: 0411889212 and if un-reachable please leave a message and I will return your contact ASAP.

Regards

Stephen Young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Mathoura
Strathmerton
Barooga
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Yarrawonga
Cobram
Nathalia
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Numurkah
Tungamah
Tongala
Kyabram
Shepparton
Wangaratta
Benalla
Albury
Wodonga
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Howlong
Chiltern
Beechworth
Myrtleford
Bright
Violet Town
Euroa
Nagambie
Seymour
Alexandra
Mansfield
Heathcote
Tatura
Stanhope
Rushworth
Murchison
Swanpool
Tallarook
Highlands
Merton
Maindample
Bonnie Doon
Toombullup
Baranduda
Lake Rowan
Glenrowan
Springhurst
Tangambalanga
Yackandandah
Mitta Mitta
Corowa
Culcairn
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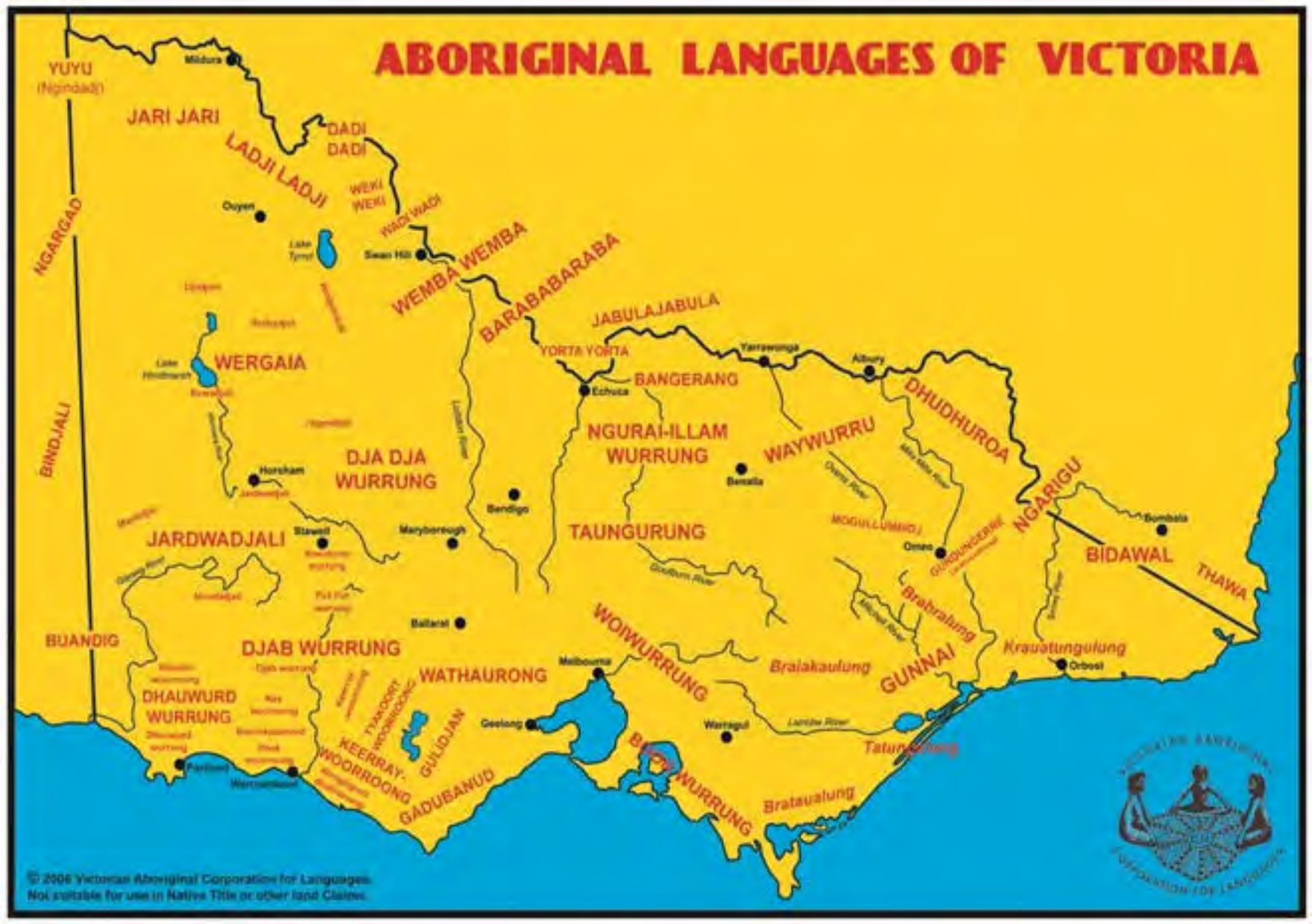
Jerilderie
Urana
Conargo
Wanganella
Dahwilly
Mayrung
Nyora
Savernake
Coreen
Sangar
Daysdale
Osborne Well
Blighty
Gulpa
Moroco
Warragoon
Rennie
Lowesdale
Koonoomoo
Wunghnu
Invergordon
Congupna
Dookie
Nalinga
Koonda
Violet Town
Euroa
Swanpool
Tatong
Strathbogie
Avenel
Puckapunyal
Tooborac
Pyalong
Whroo
Mathiesons
Graytown
Mitchellstown
Bunbartha
Wyuna
Nanneella
Merrigum
Tungamah
Springhurst
Chiltern
Wooragee
Lake Rowan
Tarrawingee
Milawa
Markwood
Greta
Moyhu
Oxens
Eurobin
Edi
Kiewa Valley
Whitfield
Buffalo
Porepunkah
Tawonga
Mount
Kancoona
Mudgeegonga
Dederang
Eskdale
Tallangatta
Bellbridge
Bowna
Wymah
Talgamo
Jindera
Gerogery
Burrumbuttock
Pleasant Hills
Woodland
Urangeline East
Bidgeemia
Walbundrie
Rand
Balgandra
Brocklesby
Balldale
Hopefield
Savernake
Sangar
Coreen
Walla Walla
Culcairm
Henty
Urangeline East
Pleasant Hills
Woodland
Bidgeemia
Walbundrie
Rand
Balgandra
Brocklesby
Balldale
Hopefield
Burrumbuttock
Gerogery
Bowna
Wymah
Talgamo
Jindera
Howlong
Lavington
Wangunyah
Albury
Rutherglen
Barnawartha
Wodonga
Bellbridge
Tallangatta
Tangambalanga
Yackandandah
Beechworth
Myrtleford
Bright
Porepunkah
Tawonga
Mount
Kancoona
Mudgeegonga
Dederang
Eskdale
Mitta Mitta
Eurobin
Edi
Kiewa Valley
Whitfield
Buffalo
Milawa
Markwood
Greta
Moyhu
Oxens
Tarrawingee
Wooragee
Lake Rowan
Springhurst
Tangambalanga
Yackandandah
Chiltern
Wodonga
Albury
Rutherglen
Howlong
Lavington
Wangunyah
Barnawartha
Bellbridge
Tallangatta


ABORIGINAL LANGUAGES OF VICTORIA
YUYU
(Ngindaal)
Mildura
JARI JARI
LADJI LADJI
DADI DADI
WEKI WEKI
WADI WADI
Ouyen
Lake Tyrrell
Swan Hill
NGARGAD
BINDJALI
WEMBA WEMBA
BARABABARABA
JABULAJABULA
YORTA YORTA
Yarrawonga
Albury
WERGAIA
Lake Hindmarsh
Echuca
BANGERANG
DHUDHUROA
NGURAI-ILLAM WURRUNG
WAYWURRU
DJA DJA WURRUNG
Horsham
Bendigo
Benalla
NGARIGU
Bombala
JARDWADJALI
Stawell
Maryborough
TAUNGURUNG
Omeo
BIDAWAL
THAWA
Ballarat
BUANDIG
DJAB WURRUNG
WOIWURRUNG
Brabralung
Melbourne
Braiakaulung
GUNNAI
Krauatungulung
Orbost
DHAUWURD WURRUNG
WATHAURONG
Geelong
Warragul
KEERRAY-WOORROONG
GULIDJAN
GADUBANUD
BRATAUALUNG
Brataualung
Tatungalung
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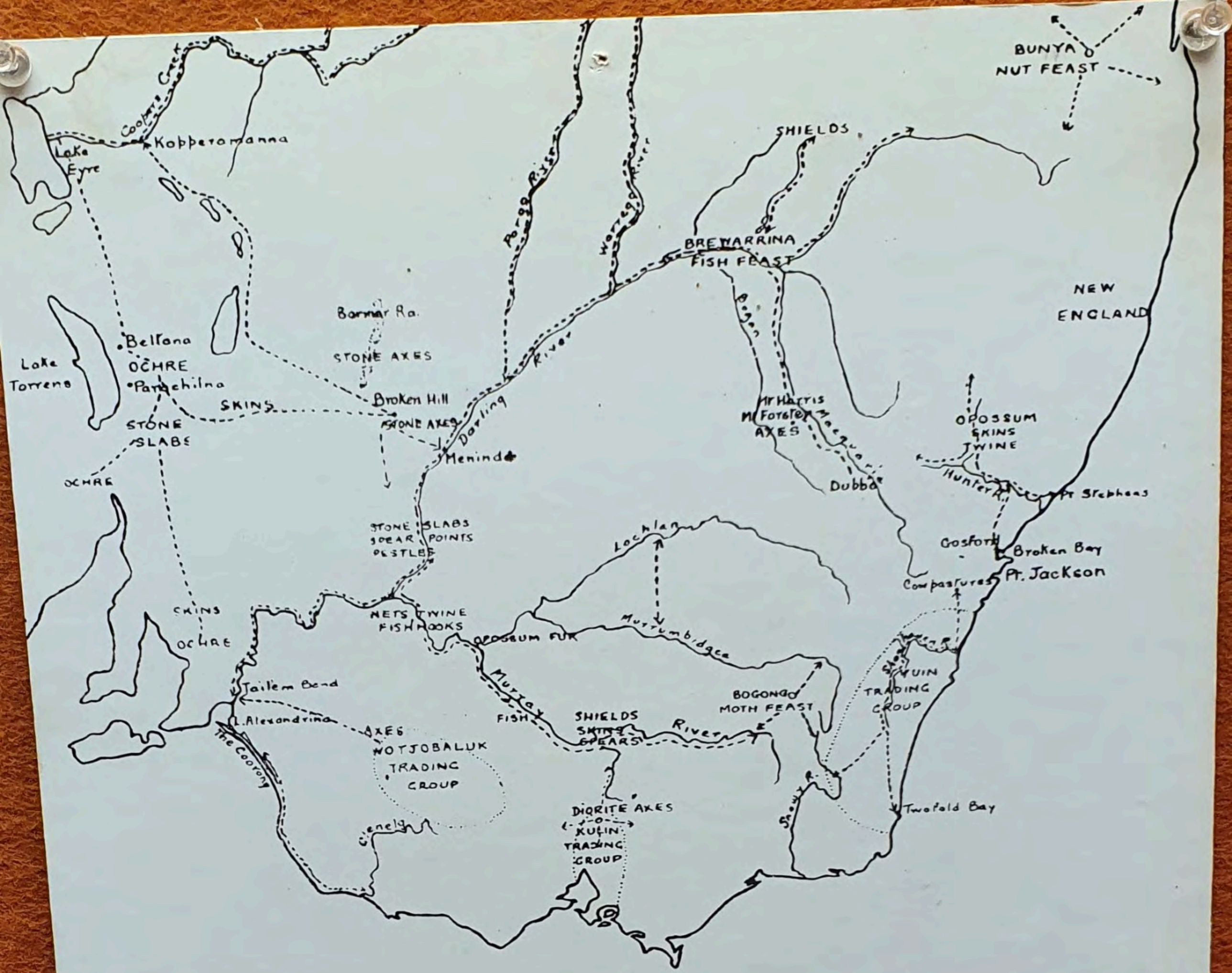
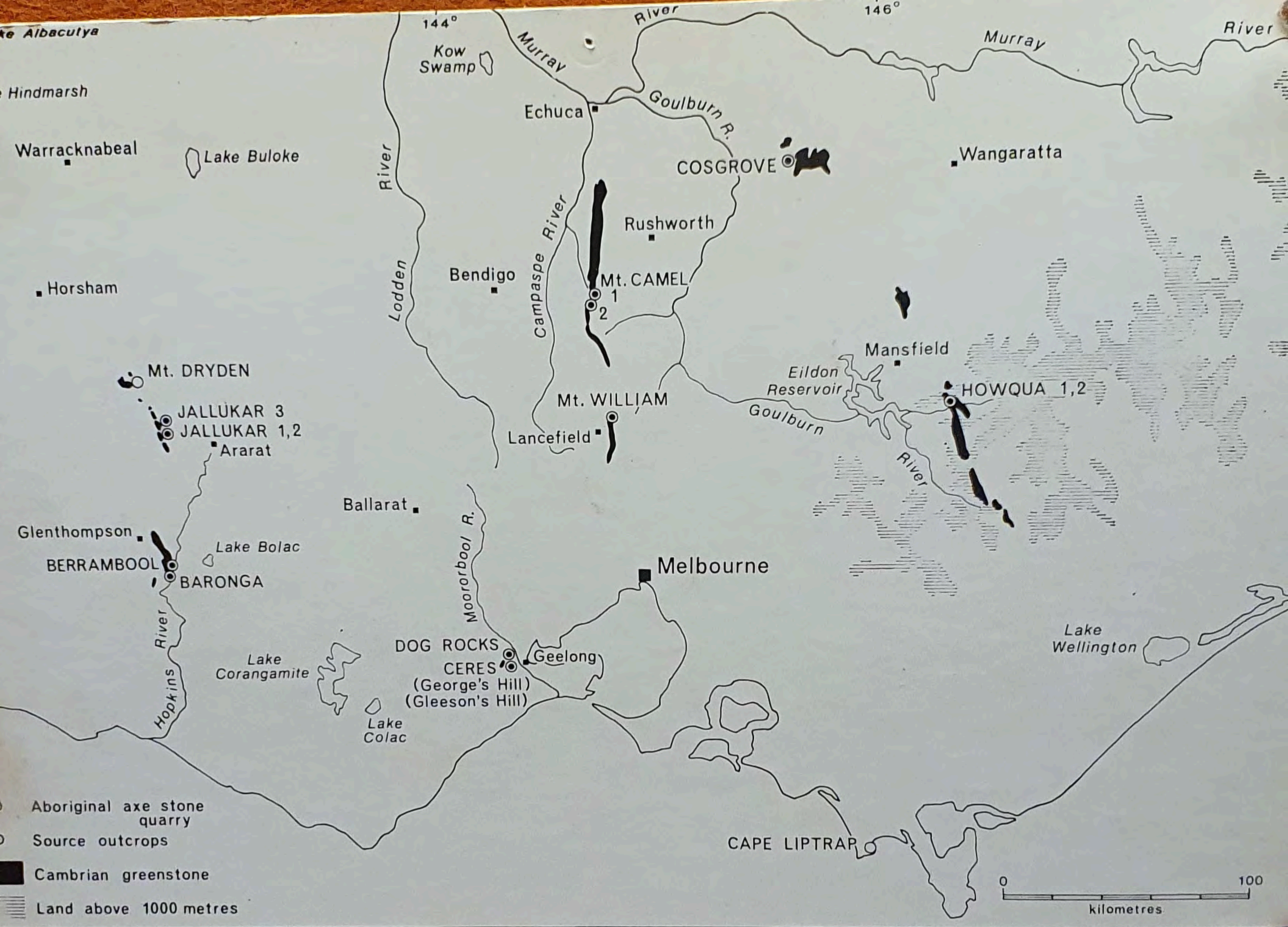
YEYO
JABI JABI
LAKE LAKE
WERGAIA
DJA DJA WURRUNG
JARDWADJALI
DJAB WURRUNG
WATHAURONG
YORTA YORTA
NGURAI-ILLAM WURRUNG
TAUNGURUNG
BUANDIG
BIDJIGAL
KWADJANI
BIDAWAL



Barter and exchange in south-east Australia.



Location of stone quarries in the greenstone belts of Victoria.

BANGERANG

cultural knowledge

Deniliquin

Finley

Tocumwal

Cobram

Echuca

Katandra

Kyabram

Rochester

Shepparton

Murchison

MOIRADUBAN

NGARRIMORO

BIKOLATBAN

BUNGATBAN

WONGATBAN

DULINYAGAN

WALIDHIGA

DORUNBAN

YANGUDUBAN

GAIYALDUBAN

BNLC

Bangerang Nation Language Circle

TRIBES

Shi

Lake Frome

Paroo R.

Warrego R.

Brewarrina

Fish

CENTRAL

TRIBES

Axes

Darling R.

Macquarie R.

Axes

Mt Foster

Possum Skins

Ochre

Sandstone

Spear-heads

Pestles

Lachlan R.

Hunter R.

Axes

Flint

Spear-heads

Murray R.

Fish Nets

Weapons

Murrumbidgee R.

Twine

Possum-skin Armlets

Fish

Possum Skins

Lake Wirrengren

Lake Buloke

Ochre

Spears

Flint

Axes

Ochre

White Pipeclay

Shields

Bogong Moths

Campaspe R.

Flint

Hopkins River

Lake Bolac

Eels

Bogong Moths

Mt Hotham

Quartz Crystals

Weapons

Utensils

Sandstone

Axes

Mt Noorat

Axes

Axes

Axes

Pipeclay

Sandstone

Axes

Spears

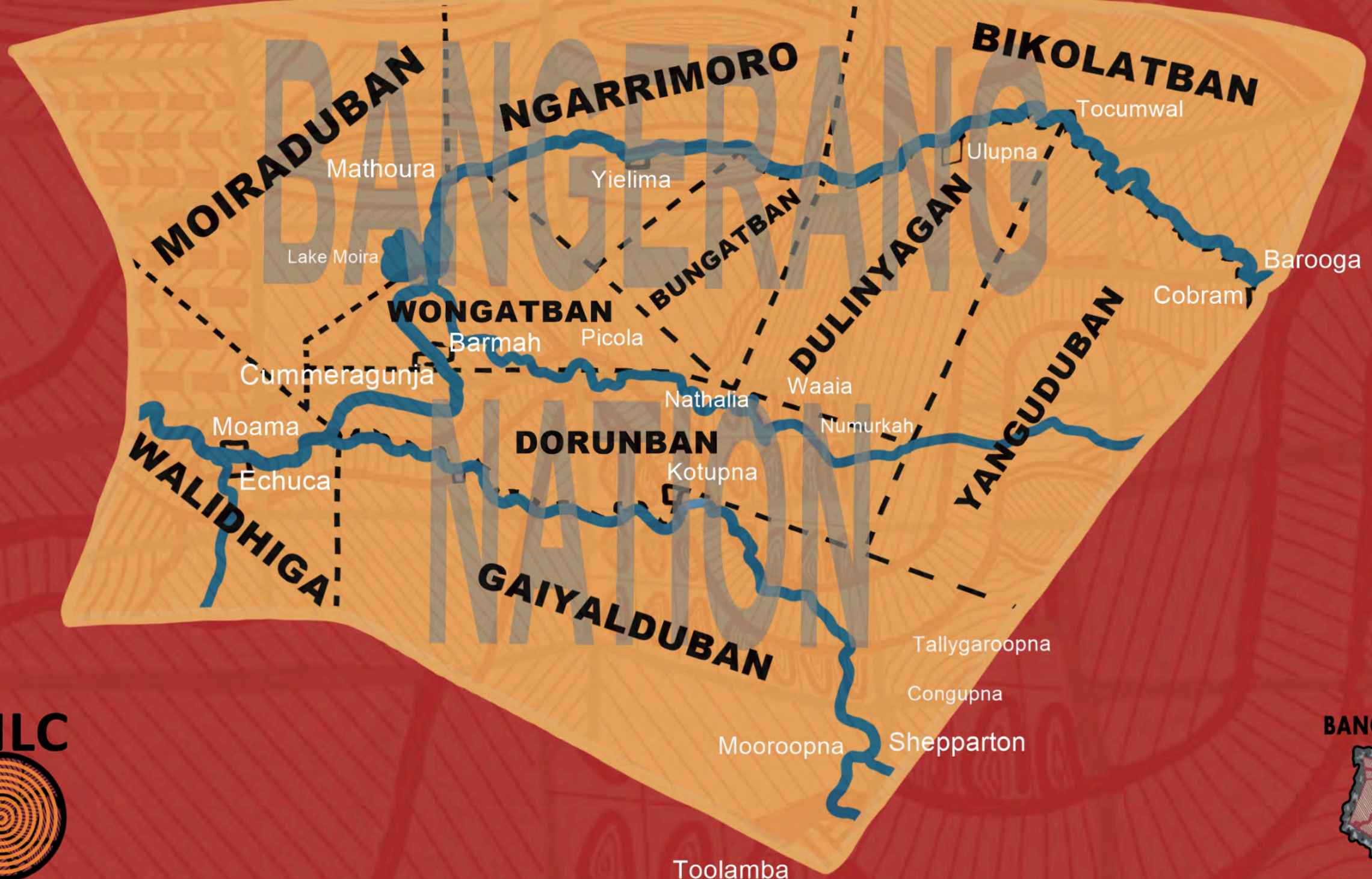
Cann R.

White Pipeclay

Axes

Swan Eggs

Deniliquin
Finley
MOITHERIBAN
NGARRIMOWRO
PIKKOLATPAN
River
Tocumwal
BOONGATPAN
WONGATPAN
TOOLINYAGAN
Cobram
TOWROONBAN
BANGERANG
Echuca
Katandra
KAILTHEBAN
Kyabram
Shepparton
Rochester
Murchison



BNLC

Bangerang Nation Language Circle

BANGERANG

cultural knowledge

Distribution limit
of Mt William axes

Darling River

Murray River

Murray River

Ovens R.

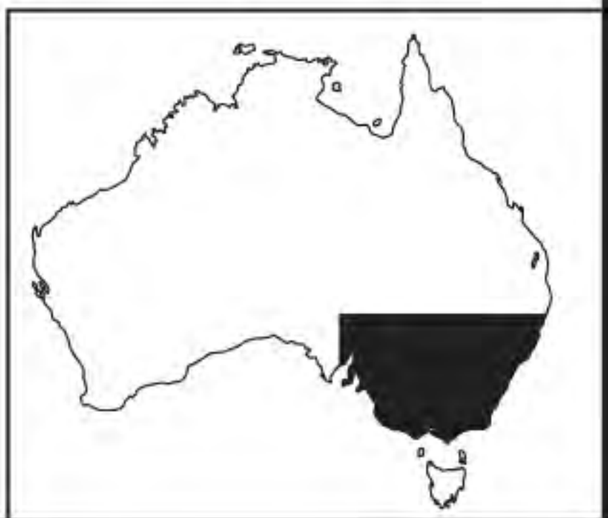
Australian
Alps

0

300 km

KEY

Mt William
quarry



Meg Ferrier

From: Alan Williams
Sent: Wednesday, 8 March 2023 10:37 AM
To: Alan Williams
Cc: Taylar Reid; Melanie Thomson
Subject: Dinawan Energy Hub - AFG meeting #1 - 6/7 March 2023

Dear All,

Thank you for your time earlier this week to meet and discuss the Dinawan Energy Hub (solar and wind) projects, near Coleamblly, NSW. Please find below the minutes of our meeting/s, please let me know if they are any errors or omissions and I'll happily update

Meeting (Monday 10am-12pm, 6 March 2023 - Muddy Lane Café, Arcade Lane, Coleamblly) – Alan Williams, Taylar Reid, Sam Elias (EMM); Roselyn Simpson, Allan Mckenzie (Griffith LALC); Bruce Crowe, Jason Crowe (Bidya Marra Consultancy); Roley Williams, Jason Matthews (Narrandera Aboriginal Community Affairs)
Online meeting (Tuesday 10-11am, 7 March 2023) – Alan Williams, Mel Thomson (EMM); Mark Saddler (Bundyi Aboriginal Cultural Knowledge)
Apologies: Uncle Robert Carroll (Bundyi Aboriginal Cultural Knowledge)

Key activities and outcomes

- AW provided an introduction to the project and discussed the proposed Aboriginal cultural heritage assessment process. This included:
    - Outlining the proposed projects, including the general location, their context in relation to other studies (such as Project Energy Connect and Yanco Delta Wind Farm), and the main project elements for both the solar and wind farms. This included that the solar and wind farms were being assessed as separate projects, despite significant overlap. As such, two reports would ultimately be developed. A brief discussion was also undertaken of the Renewable Energy Zones (REZ), their purpose and broader potential benefits to the local Aboriginal community.
    - Providing a brief history of the project and EMM's involvement, including the discussion of the Austral Archaeology due diligence of the site and some of their initial consultation over the last 12 months.
    - Outlining the Aboriginal cultural heritage assessment process, including the consultation process, desktop review (discussing AHIMS data), and with a focus on the upcoming field survey and potential test excavations if needed. This included the proposed length of the survey, and its staggered approach focussing first on the proposed solar farm and then the wind farm. The discussions outlined some of the survey targets,

including creek lines, remnant vegetation and known sand dune/lunette type environments that may be present. Some discussions on the test excavations that would only be undertaken where subsurface cultural deposits were considered probable and could not be avoided by the project.

- Outlining the timing of the ACHA process focussing on the field survey activities, future AFG meetings, and potential next steps. This included an initial survey of the solar immediately with wind farm investigations after Easter. Additional tasks and reporting to occur after this. A second meeting to discuss the findings of the solar farm and lessons learned prior to the wind farm investigations was also discussed.

- TR ran through the safety documentation for the proposed fieldwork and outlined the logistics and plans for the field survey following the meeting.

Key discussion points

- Discussion focussed on improving participants understanding of the process and project, and how it related to other nearby projects (mostly as a result of being in the REZ).
- Discussion around other recent studies, including the Yanco Delta Wind Farm to the south were undertaken, with an exploration of their findings and what it might mean for the project. References were made to the discovery of camp sites, culturally modified trees, hearths and oven mounds found elsewhere, and which may be expected in the study area. Some reference was also made to a wetland and associated lunette type deposits in the Yanco Delta Wind Farm site, and that similar highly significant deposits may also be present.
- Some discussion of the broader environment, with a focus on major river systems such as Murrumbidgee to the north, demonstrating the importance of the region to the Wiradjuri people.
- MS provided translation of some of the place and town names in the region, all being based on Wiradjuri language.

Happy to discuss,

Thanks
Al

Dr Alan Williams FSA FRSA MAACAI MEIANZ
Associate Director
Technical Lead, Aboriginal Heritage

EMM
creating opportunities

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D 02 9493 9584
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Sydney, NSW 2052

Adjunct Senior Lecturer
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University of New South Wales,
Sydney, NSW 2052

Industry Fellow
Institute of Sustainable Futures
University Technology Sydney
Ultimo, NSW 2007

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From:	Melanie Thomson
To:	Taylar Reid
Subject:	FW: Dinawan Energy Hub - Meeting minutes - Thursday 17 August 2023
Date:	Wednesday, 30 August 2023 3:44:04 PM
Attachments:	image001.png image002.png image003.png

Mel Thomson
Associate Director | Team Manager – Heritage
M 0427 551 106
mthomson@emmconsulting.com.au

From: Melanie Thomson
Sent: Wednesday, August 30, 2023 3:42 PM
Cc: David Richards <drichards@emmconsulting.com.au>; Alan Williams <awilliams@emmconsulting.com.au>; julian.kasby@sparkrenewables.com
Subject: Dinawan Energy Hub - Meeting minutes - Thursday 17 August 2023

Hi All,

Thank you to those that were able to attend the meeting on the 17 August 2023, please find below some of the key points that were raised and discussed.

Attendees: Meeting #1 (Yanco Agricultural College, 10-12.30pm 17 August 2023) - Alan Williams (EMM), Julian Kasby and Shaurntae Lyons (Spark Renewables), Uncle Roley Williams, Uncle James Ingram, Bruce Crowe and Jason Crowe; Meeting #2 (Griffith LALC, 2-3pm 17 August 2023) – Alan Williams (EMM), Steven Young (Griffith LALC)

Key points and actions:

- AW provided a detailed summary of the works to-date for the proposed Dinawan solar and wind farm projects, including:
    - Outlined the archaeological findings of the solar farm investigations, including the identification of some 35 sites. Additional discussion over those sites identified during the field program as being more important or significant than others (DEHS-2023-AS3, DEH-2023-WT1, DEH-2023-HAS2, DEH-2023-HAS4); and undertook more detailed discussion on location, composition and impacts to them.
    - Outlined the general contents of the solar farm Aboriginal cultural heritage assessment, with a focus on significance, potential impacts and recommendations.
    - Outlined the archaeological findings of the wind farm investigations, including the identification of some 92 sites. Additional discussion over those sites identified during the field program as being more important or significant than others (DEHW-2023- Dune, DEHW-2023-HAS10, DEHW-2023-STAS1).
    - Outlined the proposed test excavation program to be undertake at the wind farm, including presentation of locations via provided maps.
    - Outlined broad timing of the remaining solar and wind farm activities through the rest of 2023.

Discussions and outcomes included:

- Undertook discussion of the identified key sites and places, including presentation of their location and the efforts to re-design the project to avoid them wherever feasible, and which everyone was

supportive of. Discussed general mitigation measures, including collection of surface cultural materials, excavation of buried cultural deposits, and targeted cultural monitoring (especially in the vicinity of sand dunes) where avoidance may not be achieved, and which all supported.

- An extensive discussion was undertaken of the proposed post-approval Aboriginal cultural heritage management plan (ACHMP) for the solar farm and the potential avoidance and mitigation measures that would be included. Notably, was the preference to have all cultural materials collected and relocated within the project area to one of the identified Aboriginal sites that was to be avoided into the future; and in so doing ensure cultural materials are not removed from Country. JK provided a successful example of this approach at the Bowman solar farm. JC suggested that DAHS2023-HA2 might be a good site for this given it was one of the significant sites discussed. AW advised that the Aboriginal cultural heritage assessment (ACHA) could include guiding principles and direction to this effect, but that these details would be developed and refined as part of the ACHMP creation, and which would be developed in close liaison with the Aboriginal participants.
- JI identified the burial location of several Aboriginal people at Dry Lakes to the south-west of the project area. It is not considered that the project would intersect with these sites, but EMM will undertake further analysis and identify whether there are any direct or indirect impacts to this general area that require consideration.
- JI identified the potential for burials to be present in sand dunes more generally and noted several dunes were on the site. Noted burials typically occurred on the western side of dunes. Asked whether the establishment of wind turbines would result in wind regime changes that may adversely affect the dune landscape currently present. (Note was not the direct impacts from construction but increased/redirection of winds that would result in changing conditions to the current dune formations). AW would seek further information on this from the project team and the issue and report back.
- Several participants expressed concern over the potential impacts of DEHW-2023-Dune, and which AW advised were currently being subject to ongoing project refinement, and which would be further explored following the test excavations of the edge of the feature. AW further advised that most of the proposed access tracks running through the site are existing.
- JI, RW and SY all identified the importance of the cultural landscape, and especially the endemic fauna within the project area. Concerns were raised over the potential impact the project would have to (Wedgetail) eagles and other hunting birds that were known to be in the general area, and which in some cases are totems of Wiradjuri people. AW advised that ecological surveys were being undertaken – a component of which would be collision risk for bird species - and would inform both the presence and management of such issues but would find out more information on this issue and report back. SY further indicated a need to consider the broader cultural landscape, such as Dreaming places, songlines, etc.
- Several participants expressed a strong interest in broader socio-economic outcomes for the local Aboriginal community and the proposed Aboriginal participation plan. These interests were directed to JK and SL who advised that a number of workshops initiating this process were imminent and where they could be discussed more extensively. SY also expressed an interest, and AW advised he would advise JK and SL that the Griffith LALC would like to be involved in these discussions.
- Some limited discussion about personnel issues that had occurred on site. JI advising that some mental health issues may have resulted from the situation. SL to explore the long-term management of this issue beyond the next field campaign.
- SY expressed interest in further exploring the ongoing involvement in the management of undisturbed areas of the project area, with a focus on the continued access to potential sites of significance by the local Aboriginal community, ongoing management of endemic species (akin to an Indigenous rangers program), as well as other potential socio-economic and educative opportunities.

Please let me know if there are any omissions or errors and we will correct them and re-issue.

Warm regards,

Mel Thomson BSc (Hons)
Associate Director | Team Manager – Heritage

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mthomson@emmconsulting.com.au

MELBOURNE | Wurundjeri Woi Wurrung Country, Suite 8.03, Level 8, 454 Collins Street, Melbourne VIC 3000

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Meeting Minutes – Dinawan AFG #4

Solar RTS ACHA Update & Wind ACHA field investigation results + proposed mitigation measures

28 February 2024

Meeting 1: Griffith LALC (5 Wiradjuri Place, Griffith NSW)

Present: Taylar Reid (EMM), Alan Williams (EMM), and Stephen Young (GLALC)

Apologies: Roslyn Simpson (GLALC) and Allyn Mackenzie (GLALC)

Discussion: 4th AFG for the Dinawan Energy Hub project. Purpose of meeting is to discuss the Heritage NSW comments on the Solar ACHA, actions to be undertaking to address the comments, and discussion of the reduced EIS boundary footprint, which further reduces impacts to several previously identified Aboriginal sites and land that was initially assessed as part of the Solar ACHA. Additionally, the findings of the Wind ACHA field investigations and proposed management measures, which will be developed further during finalisation of the report (currently in process).

SY: wants to explore with Sparks further socio-economic benefits for the Griffith Aboriginal local community, strong interest in maximising avoidance of sites, and interest in the Women's Tree in the Solar area and how we would propose to management.

We provided information on the Solar and timing as well as development of the Heritage Management Plan. Hope to be back soon to discuss the final reports in April – at their request have another AFG after finalisation of both reports (during the comment period).

Meeting Minutes 2

Red Door Café – Narrandera NSW

Present: Taylar Reid (EMM), Alan Williams (EMM), Julian Kasby (Spark Renewables), Alexis Thornton (Spark Renewables), James Ingram (Bidya Marra Consultancy), Bruce Crowe (Bidya Marra Consultancy), Robert Pengelly (Bidya Marra Consultancy), Roley Williams, Jason Matthews (Roley Williams)

Apologies: Roland Atkinson (Bangarang Aboriginal Corporation)

Same materials and details provided as at meeting 1. Key points raised notably by James Ingram revolved around the development of an ACHMP to manage cultural materials on both the Solar and Wind farms. Roley Williams wants the long storage to be on country near the project area/where they were salvaged from.

From:	Samuel Elias
Cc:	Alan Williams; Melanie Thomson; David Richards; Kate Cox; Taylar Reid
Subject:	Dinawan Energy Hub | AFG Meeting #5 | 8 May 2024
Date:	Tuesday, 23 April 2024 3:26:06 PM
Attachments:	image001.png image002.png image003.png

Hello all,

As discussed over the phone, this email provides the details for the 5th and final Aboriginal Focus Group (AFG) meeting, on **Wednesday 8 May 2024** for the Dinawan Energy Hub project. This meeting aims to discuss the finalisation of the Dinawan Wind Farm. Alan will additionally discuss the Solar RTS addendum, which includes a reduction of the development footprint.

The meeting will take **~1-2 hours** and you will be compensated for your time at contracted rate of [redacted]. As discussed over the phone, there will also be a [redacted] allotment for fuel. In the event your organisation is unable to attend, please let us know and we can organise an online meeting instead.

Two meetings will be held in both Griffith and Narrandera. The first meeting will be held at 8 am at the Griffth Local Aboriginal Land Council centre, at 5 Wiradjuri Place, Griffith, NSW. The secondary meeting will be held at 11:30 am at the Community Service Building no.4, at 4 Victoria Street, Narrandera, NSW. If you have any questions please let me know, or give Mel (0427 551 106) or Alan (0438 104 740) a call.

Sincerely,

Sam Elias
Archaeologist
Bushfire, Ecology, Heritage and Spatial Solutions

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From: Taylar Reid
Cc: Alan Williams; Melanie Thomson; William Truscott; Samuel Elias
[redacted]
Subject: Dinawan Energy Hub | AFG Meeting 4
Date: Tuesday, 20 February 2024 1:07:00 PM
Attachments: image001.png
image002.png
image003.png

Hello All,

Thank you for speaking with me over the last few days. This email provides the details for the upcoming Aboriginal Focus Group (AFG) meeting on **Wednesday 28 February 2024** for the Dinawan Energy Hub project. We propose to discuss the results and outcomes of the Wind Farm field investigations, as well as impacts and proposed mitigation measures for the Aboriginal Cultural Heritage Assessment (ACHA) report. We will also discuss the current status of the Solar Farm project and next steps. As always, we are also happy to discuss other issues, concerns and/or questions from Aboriginal participants on the day.

There will be two meetings to accommodate the varying geographies of the groups, but the information presented at both meetings will be the same, and minutes of both meetings will be provided to all. The meeting is proposed to take **~1-2 hours** and we are happy to pay for your time at the amount of **$130 ex GST/hour**. In the event your organisation is unable to attend, please let me know and we can organise an online meeting instead.

For those attending the AFG in Griffith, we will be meeting at **10:30AM** at the **Griffith Local Aboriginal Land Council** located at 5 Wiradjuri Place. For those attending the meeting in Narrandera, we will be meeting at **1:30PM** at the **Red Door Café** located at 90 East Street.

As discussed on the phone, and to be discussed further in the AFG meeting, Spark have largely reduced the solar disturbance footprint since the submission of the Environmental Impact Statement (EIS), however there are three small, discrete areas where they have expanded outside of the EIS footprint. As such, we will be spending a day, possibly two, of survey to ensure we cover these areas and we will be updating the Solar ACHA with the results for your review and comment. This will be conducted with the Griffith LALC and Bangarang, as the remaining groups participated in the recent Wind realignment surveys that occurred in late January. A separate email with meeting details will be provided.

If you have any questions or concerns please let me know.

Kind regards,

Taylar Reid
Senior Archaeologist – Ecology and Heritage

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emmconsulting.com.au

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From: Alan Williams
To: Alan Williams
Cc: David Richards; Taylar Reid; Julian Kasby; Alexis Tubb; Melanie Thomson
Subject: Dinawan Energy Hub - AFG 5 - meeting minutes - 10 May 24
Date: Thursday, 16 May 2024 11:46:50 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image006.png
image007.png

Dear All,

Thank you for your time in relation to the Dinawan Energy Hub project and discussions of current status of the Wind and Solar Farm ACHAs and the next steps. Please find below a summary of the meeting with key issues/actions identified. Please let me know if I have misinterpreted or omitted anything and I'll happily modify.

Location:
Griffith LALC, 5 Wiradjuri Place, Griffith NSW, 9 – 10.15AM
Community Service Building no.4, 4 Victoria Street, Narrandera NSW, 11:40PM – 1:45PM

Meeting Details:
Griffith LALC
Present: Alan Williams (EMM), Julian Kasby and Alexis Tubb (Spark Renewables), and Stephen Young and Kenny (Griffith LALC)

Community Service Building no.4
Present: Alan Williams (EMM), Julian Kasby and Alexis Tubb (Spark Renewables), James Ingram (Bidya Marra Consultancy), Bruce Crowe and Brandon Crowe (BMC), Robert Pengelly (BMC), Roley Williams (individual)

Key activities

- AW provided an acknowledgement of Country
- AW outlined the response to submission process for the Solar project, including the comments made on the Aboriginal cultural heritage assessment (ACHA) by Heritage NSW, and EMM's subsequent response (addendum report). This involved a detailed run through of the addendum report, outlining changes and key points, with notably focus on the changes to the management and mitigation measures.
- AW provided an overview of the Aboriginal cultural heritage assessment for the proposed wind farm. This included a summary of early sections, with more detailed review of the archaeological resource and its philosophy, and how these findings feed into significance, potential impacts and management and mitigation sections.
- AW outlined the proposed post-approval Aboriginal cultural heritage management plan (ACHMP) as the likely document to manage Aboriginal heritage following any project approval, and sought inputs and direction on its contents from all participants. This included a rundown of the guiding principles for managing specific site types found in the back of the ACHA.

Key points:

- AW presented the specific comments by Heritage NSW on the Solar ACHA and outlined the responses to them in the updated ACHA report. These largely consisted of administrative corrections (e.g. incorrect dates within the consultation log and body of the report), and further details of post-approval activities, including an ACHMP. AW/JK reiterated that Bundure road that was included in the comments would not be upgraded for the project and would stay in its current condition. AW/JK also outlined the significant reduction in footprint size to maximise the preservation of cultural materials, with some 27 Aboriginal sites and places now being avoided since project refinement following the EIS submission. No one identified any concerns with the amendments or changes to be integrated into the report.
- AW outlined the findings of the Wind ACHA, including the synthesis of all the works into 32 discrete Aboriginal sites and places. Discussion was then undertaken on the avoidance and conservation of 14 of these sites, several having been previously identified as of high cultural values. Several of these are being avoided specifically as a commitment by Spark Renewables and will be actively managed during the project. AW also highlighted the partial impacts to the remaining 18 sites with many being hundreds of hectares in size. AW outlined the significance assessment of the sites, with a focus on the scientific values and how the majority of sites through the synthesis were mostly high or moderate values. Finally, explored the proposed management plan, some of its key points and mitigation measures that would be expected to be included in the management plan should the project be approved (e.g. cultural monitoring, excavation of hearths, recovery of culturally modified trees, etc). Overall, there was general support for the works undertaken and presented in the report, the overall findings and general approach to any post-approval activities. Issues identified are outlined in subsequent points below.
- SY continued to re-affirm the Griffith LALC's care for cultural heritage management and of the cultural landscape (including flora, fauna, etc) more broadly. AW/JK outlined that the ecology of the solar farm and the cultural materials were often found together and demonstrated a clear relationship across the landscape. He sought a copy of the ecology reports (included in the share-link below).
- SY raised concerns of who speaks for Country more broadly in the region, and highlighted the LALC's strong interest in community benefit sharing and opportunities.
- SY wanted the Griffith LALC's to remain heavily involved in the projects, sought participation in any post-approval mitigation works, and expressed an interest in the LALC managing Aboriginal participation during this phase of the project. AW advised that this would be documented, but would be something discussed and developed in the post-approval ACHMP assuming the project is approved and the project conditions seek such a document.
- JI indicated that he had problems with downloading the report. I include another link below that includes the report again. Please let me know if it doesn't work.
- Extensive discussion was undertaken with JI and RW on the cultural materials that may be adversely affected by the project. This included discussions of the development corridor, which was included as a buffer and may not impact sites (but which at the pre-EIS stage has to assume such).
  - A focus was undertaken on two sites, DEHW-2023-ST10 and DEHW – 2023-HH1, both culturally modified trees and understanding their locations and rationale for impacts. DEHW-2023-ST10 is situated close to an existing creek crossing, and it is considered that avoidance would be hard to commit to without a detailed civil design of the creek crossing and road corridor, which will be done prior to construction. DEHW-2023-HH1 is on Jerrys Lane (not previously reported Goolgumbla Road) and is in the development corridor, not the footprint. Following the meeting, Spark Renewables have reviewed the location and confirmed that they will commit to avoiding this site.
  - Information on whether the identified hearth sites being adversely affected where excavated or not. AW did not have specific information on this, but advised that any sites that were to be adversely affected would have mitigation measures – outlined in the last appendix of the report – and for hearths these would include partial and full excavation of any deposits prior to impact.
  - RW was concerned that he had not seen all the sites proposed for impact given the rostering of the field program. It was agreed that RW and BC as senior Wiradjuri men would be offered the opportunity to visit each of the 18 sites proposed for adverse impact to provide their views and direction for any management to be included in the ACHMP. This is already included in the ACHA guiding principles, but it was agreed that a single trip to undertake this in advance of the management plan, rather than as part of the outcomes of the ACHMP would be preferable.
- JI/RW and BC were all strongly interested in the potential interpretation opportunities that may come from the project. This included numerous examples undertaken by JI at the Berry Gerry rest area and Kengal Aboriginal Place. Discussions included exploring potential opportunities at rest areas near the project area and/or Coleambally. Some discussion around initiating discussions on feasibility of these areas sooner, rather than waiting for the project to be approved.

Two different links to the report below, hopefully one of them will work for everyone:

Dinawan Energy Hub

Dinawan Energy Hub

Happy to discuss
Thanks
Al

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AUSTRALIAN RESEARCH COUNCIL Centre of Excellence for Australian Biodiversity and Heritage

UNSW Earth and Sustainability Science Research Centre

UTS UNIVERSITY OF TECHNOLOGY, SYDNEY

I work flexibly. I'm sending you this message now because it's a good time for me, but do not expect you to read, respond or action it outside your regular hours

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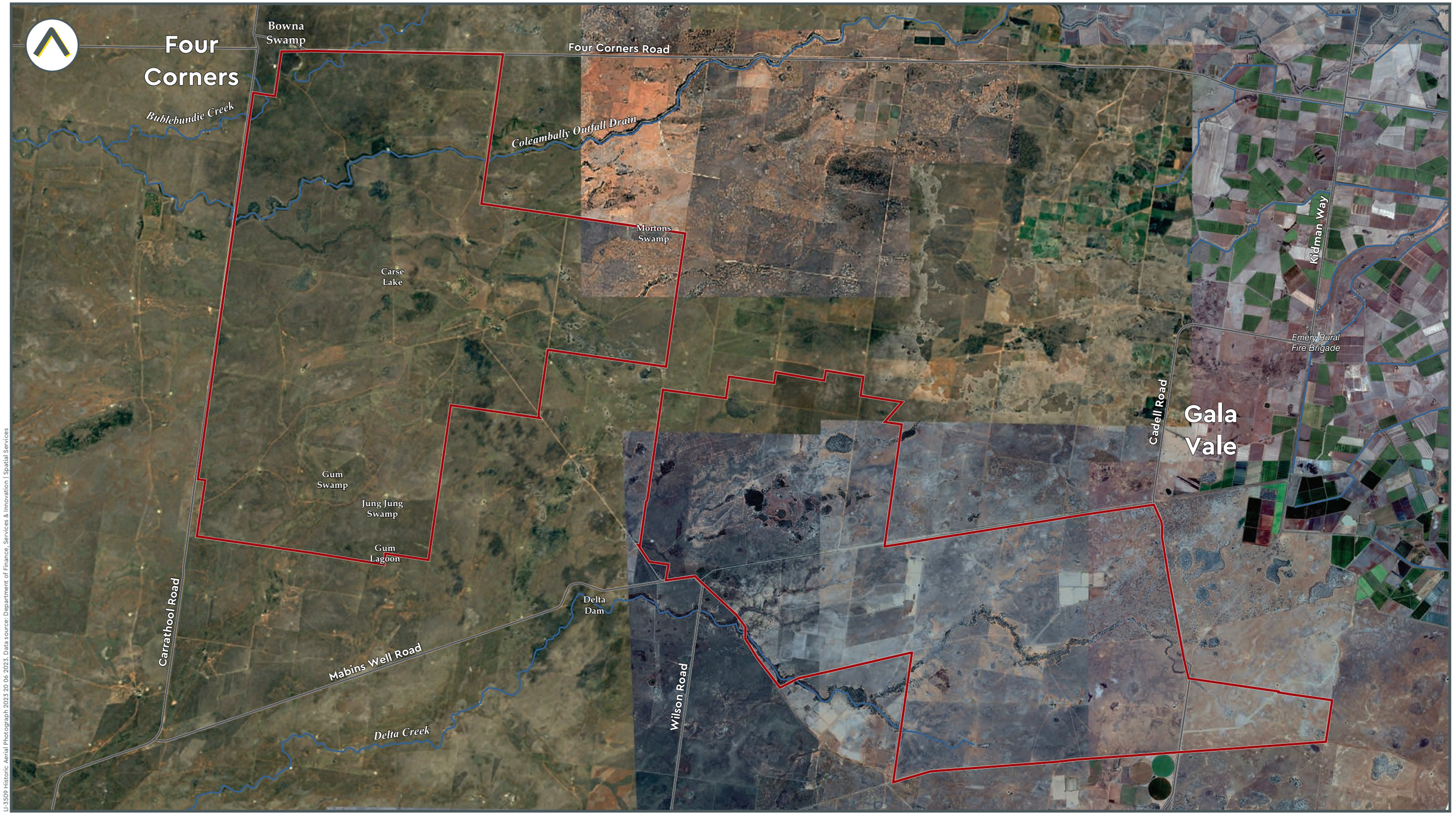
https://www.mailguard.com.au/mg

Report this message as spam

Annexure C
Historic aerials

EMM
creating opportunities

Historic Aerial Photograph - 2015



Subject area

0 4km

LI 3509 Historic Aerial Photograph 2023 20 06 2023. Data source: Department of Finance, Services & Innovation | Spatial Services

Land Insight

Land Insight & Resources do no warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that this company shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

Historic Aerial Photograph - 2023

LI3509 Historic Aerial Photograph 2023 20 06 2023. Data source: Department of Finance, Services & Innovation | Spatial Services

Subject area

0 4km

Land Insight

Land Insight & Resources do no warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that this company shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

Annexure D

Archaeological background

EMM
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D.1 Site definitions used for this assessment

D.1.1 Aboriginal sites

In the AHIMS database, Aboriginal sites are defined in several ways. At the simplest level, sites are recorded as 'closed' or 'open'. Closed sites are associated with rockshelters and include other evidence of Aboriginal occupation that may be present, such as areas where subsurface Aboriginal objects may occur within the shelter ('potential archaeological deposit' (PAD)), faunal remains, and art on the shelter walls (paintings/engravings). Open sites are broadly defined and encompass all other types of Aboriginal site features that are located in areas where there is no rockshelter. The most common open site features found generally include artefacts, grinding grooves, art, culturally modified trees, and shell deposits (middens) (OEH 2012). The presence or absence of stone artefacts is often a defining factor in site identification, with almost every site likely to have at least some associated artefacts, as discard or loss of this most ubiquitous and practically indestructible marker of past Aboriginal visitation.

Any one site (or group of linked sites described as a 'complex') can contain several different site features. For example, a shelter may have art on the walls, artefacts on the floor surface or outside the shelter, and be predicted to contain faunal remains and further artefacts in the accumulated deposit inside.

A description of terms used to describe different site features known to occur in the vicinity of the study area is provided in Table D.1 and use definitions provided by OEH and those adopted by EMM in their field investigations to produce consistency in recording. Similarly, there may be places of contemporary significance to Aboriginal people in the region and that will require consultation with this community to identify.

Table D.1 Site definitions and recording

Site feature	Definition and recording methods
Aboriginal ceremony and dreaming	Previously referred to as mythological sites these are spiritual/story places where no physical evidence of previous use of the place may occur (e.g. natural unmodified landscape features, ceremonial or spiritual areas, men's/women's sites, dreaming (creation) tracks, marriage places).
Artefact site (open stone artefact site)	Objects such as stone tools, and associated flaked material, spears, manuports, grindstones, discarded stone flakes, modified glass or shell demonstrating evidence of use of the area by Aboriginal people. Open stone artefact sites were defined by the presence of one (isolated find) or more (artefact scatter) stone artefacts visible on the ground surface. The boundaries of a site are limited to the spatial extent of the visible stone artefacts. The mapped site points and/or 'site areas' do not represent the areas of potential archaeological deposit (PAD) that also apply to some sites (refer to the term 'PAD' below). Open stone artefact sites were recorded by marking each artefact location or each cluster of artefacts within a 5 m radius as a separate waypoint in the GPS. Site boundaries were allocated by drawing a line around the cluster waypoints for each site using ArcGIS software. Stone artefacts more than 50 m apart were recorded as separate sites. EMM acknowledges that the 50 m rule applied here is an arbitrary distinction for site boundaries and is used mainly for efficiencies in site management and to establish consistency in site recording methods.
Burials	A traditional or contemporary (post-contact) burial of an Aboriginal person, which may occur outside designated cemeteries and may not be marked (e.g. in caves, marked by stone cairns, in sand areas, along creek banks).
Fish trap	A modified area on watercourses where fish were trapped for short-term storage and gathering.
Grinding grooves	Grinding grooves were defined as an area of outcropping bedrock containing evidence of one or more grinding grooves where ground-stone hatchets or other grinding practices (i.e. seed grinding) were implemented.

Table D.1 Site definitions and recording

Site feature	Definition and recording methods
Habitation structure	Structures constructed by Aboriginal people for short- or long-term shelter. More temporary structures are commonly preserved away from the NSW coastline, may include historic camps of contemporary significance. Smaller structures may make use of natural materials such as branches, logs and bark sheets or manufactured materials such as corrugated iron to form shelters. Archaeological remains of a former structure such as chimney/fireplace, raised earth building platform, excavated pits, rubble mounds etc.
Hearth	A hearth is an archaeological feature consisting of the ash and charcoal remains left behind from ancient campfires and earth ovens. Hearths are often identified as concentrated circular patches of charcoal or burnt clay on the ground surface or as stratigraphic features in subsurface archaeological deposits, and they hold cultural, historical, and scientific significance. Hearths can provide insights into traditional cooking practices, food preparation, and human interactions with the environment, contributing to our understanding of Indigenous lifestyles and resource utilisation over time. For this assessment hearths were characterised into three categories: eroded hearths (i.e. the eroded bases of earth ovens), potential in situ hearths (i.e. earth ovens), and scattered hearth remains (i.e. scattered clay balls that are not concentrated in a circular shape).
Modified tree (carved or scarred)	Trees which show the marks of modification as a result of cutting of bark from the trunk for use in the production of shields, canoes, boomerangs, burials shrouds, for medicinal purposes, foot holds etc., or alternately intentional carving of the heartwood of the tree to form a permanent marker to indicate ceremonial use/significance of a nearby area, again these carvings may also act as territorial or burial markers. Modified trees (either carved or scarred) can be difficult to identify. Scars commonly occur on trees through natural processes such a branch tears, insect damage, storm and fire damage and faunal damage. Scars can also occur from mechanical damage from vehicles or farming equipment. The attributes of potential scarred trees were discussed during the survey amongst archaeologists and RAPs before it was decided if a scar would be recorded or not. A precautionary approach was adopted, whereby some of the more ambiguous examples were recorded anyway. The assessment of scar trees was made from the experience of the survey team and the guideline *Aboriginal scarred trees in New South Wales: a field manual* (DEC 2005). In some of the more ambiguous examples, it cannot be verified whether some scars recorded during the survey are of natural or Aboriginal origin. In such instances, an expert evaluation by a scar tree expert (arborist or other) would be required to determine the status of certain trees.
Potential archaeological deposit (PAD)	An area where Aboriginal objects may occur below the ground surface. The term 'potential archaeological deposit' was first applied in Sydney regional archaeology in the 1980s and referred to rockshelters that were large enough and contained enough accumulated deposit to allow archaeologists to predict that subsurface cultural material was likely to be present. Since then the term has come to include open sites where the same prediction can be made. EMM has defined PADs as the predicted extent of concentrated subsurface Aboriginal objects in a particular area. PADs are not technically Aboriginal sites until, and if, subsurface Aboriginal objects are identified, which is typically established through archaeological test excavation. PAD areas have been assigned to landforms that are distinguishable from the surrounding landscape (e.g. elevated areas with good outlook overlooking watercourses) as being likely to retain higher artefact densities than the assumed 'background scatter' of archaeological material in the broader landscape. The identification of PADs associated with Aboriginal open camp sites was partly based on observations in the field and discussions with RAPs, but also related to the predictive model. Although PAD was attributed to areas for a variety of reasons, the main qualifiers were: The presence of surface artefacts or other Aboriginal objects. Ground surface visibility as part of the archaeological survey effort was typically considered high enough in each PAD area to identify at least one or more surface artefacts thereby indicating likelihood of subsurface potential. Notwithstanding, finding no visible surface artefacts in an area would not disqualify an area from being attributed with PAD. Level to gently inclined ground (<10%) indicating suitable camping or activity areas.

Table D.1 Site definitions and recording

Site feature	Definition and recording methods
	Contours that distinguish the landforms with PAD from the surrounding landscape (e.g. spur crest, hill crest or knoll). Landform boundaries were also interpreted through observations in the field. Notably, rocky crest landforms that were protected from intensive cultivation were often attributed with PAD. Proximity to water: typically up to 100 m from 1st and 2nd order streams and up to 200 m from 3rd order streams and above. Elevated landforms at the confluence of higher order streams were also more likely to be attributed with PAD. EMM acknowledges that all PAD areas have been historically cleared of native vegetation and some have been subject to pasture improvements such as ploughing. As such, the term PAD does not assume high subsurface integrity; instead it is a prediction of potential subsurface artefact concentrations. All stone quarry sites are predicted to have PAD. The assumption is that in most cases the visible surface material at quarries is represented by larger artefacts (such as cores) and that smaller material (e.g. flakes) is likely to be buried.
Restricted	Site information contained in the Aboriginal Heritage Information Management System is available only to certain authorised groups of people, as requested by the Aboriginal community. Detailed information may not be available in search reports.
Shell	An accumulation or deposit of shellfish from beach, estuarine, lacustrine or riverine species resulting from Aboriginal gathering or consumption. Usually found in deposits previously referred to as shell middens. Must be found in association with other objects like stone tools, fish bones, charcoal, fireplaces/hearths, and burials. Will vary greatly in size and composition.
Stone quarry	Usually a source of good quality stone which is quarried and used for the production of stone tools. Stone quarries represent where Aboriginal people gathered raw stone materials for stone tools and/or manufactured stone tools from the adjacent source material. Quarry sites are found at rock outcrops where the material was of suitable quality to have been used to manufacture stone tools. Stone quarries were defined by the presence of outcropping stone material with nearby evidence of the same material type used in the stone tool manufacture process. This was most commonly indicated by large stone cores or stone flakes distributed amongst the same naturally outcropping material. EMM acknowledges that the 'open stone artefact' site type shares some of the same characteristics as 'stone quarries', such as the presence of stone artefacts. However, they have been distinguished from each other because quarries can not only represent open camping activities, but also a fixed location where Aboriginal people needed to visit to extract a resource. In contrast, the locations of typical open camp sites were not fixed but chosen by Aboriginal people for their favourable conditions.

D.2 AHIMS search results

AHIMS Web Services (AWS)
Search Result

Your Ref/PO Number : E220305 Dinawan Solar 1

Client Service ID : 766104

EMM Consulting - St Leonards - Individual users

Date: 22 March 2023

Ground Level, Suite 01 20 Chandos Street
St Leonards New South Wales 2065

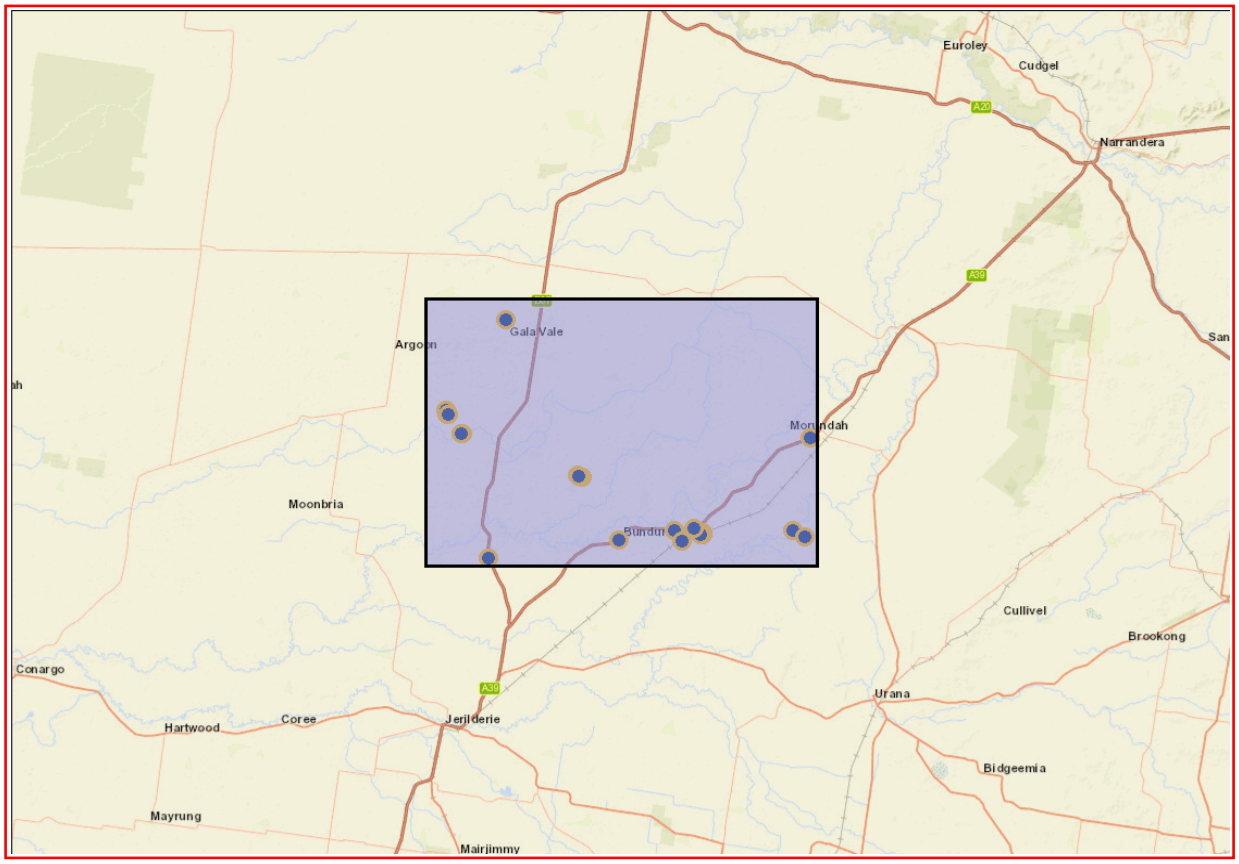
Attention: Taylar Reid

Email: treid@emmconsulting.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937, conducted by Taylar Reid on 22 March 2023.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

24	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Locked Bag 5020 Parramatta NSW 2124
Tel: (02) 9585 6345

ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

AHIMS Web Services (AWS)
Search Result

Your Ref/PO Number : E220305 Dinawan Wind 1

Client Service ID : 766055

EMM Consulting - St Leonards - Individual users

Ground Level, Suite 01 20 Chandos Street
St Leonards New South Wales 2065

Attention: Taylar Reid

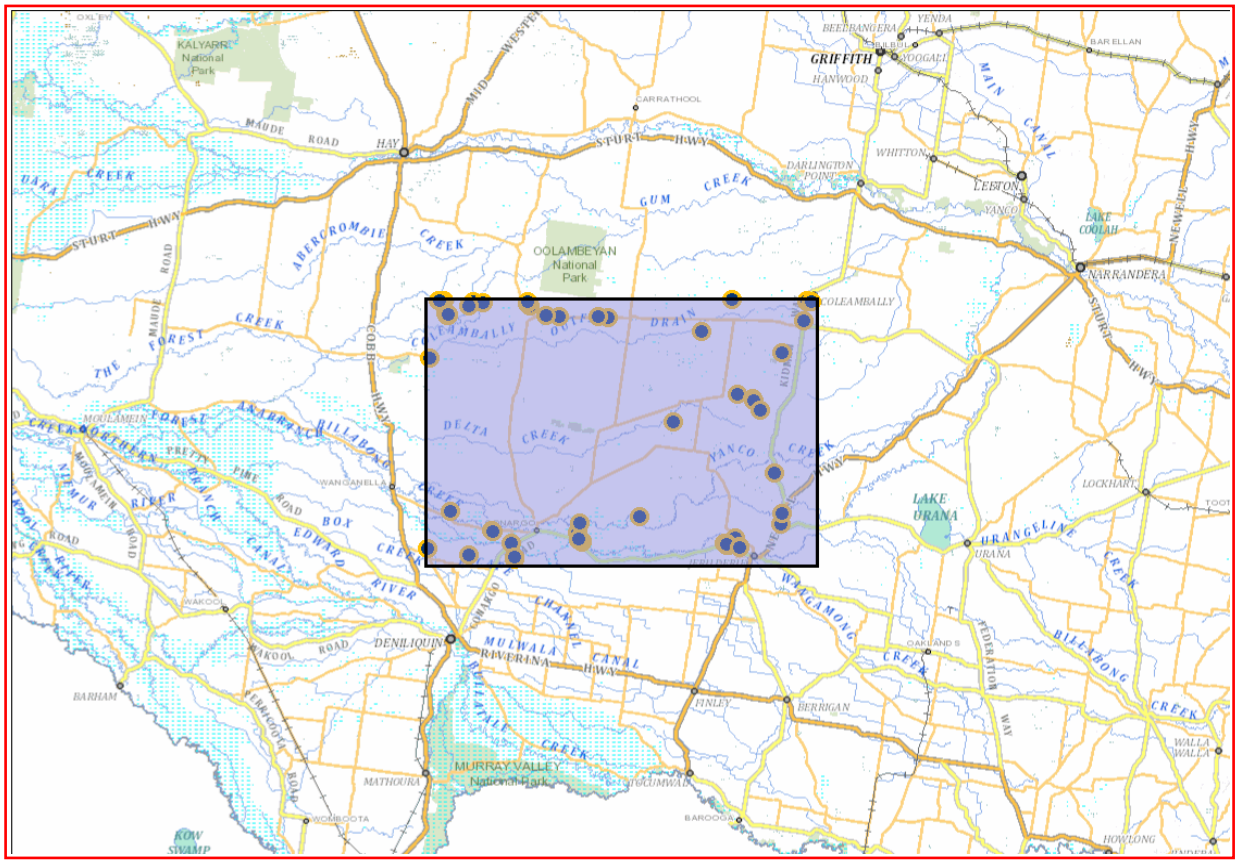
Email: treid@emmconsulting.com.au

Date: 22 March 2023

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876, conducted by Taylar Reid on 22 March 2023.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

94	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Level 6, 10 Valentine Ave, Parramatta 2150
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Tel: (02) 9585 6345

ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Solar 1

Client Service ID : 766109

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-2-0083	PEC-E-58	GDA	55	413484	6109437	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0055	PEC-E-45	GDA	55	383901	6123009	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0064	PEC-E-54	GDA	55	403814	6108516	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0061	PEC-E-51	GDA	55	398998	6116028	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0084	PEC-E-59	GDA	55	423852	6109789	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0082	PEC-E-57	GDA	55	413389	6109268	Open site	Valid	Artefact : -, Earth Mound : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0052	B-M/OS-1	AGD	55	410110	6109550	Open site	Valid	Earth Mound : -, Hearth : -, Artefact : -	Mound (Oven),Open Camp Site	97990
Contact		Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits		
55-1-0051	CO-ST-001	GDA	55	388850	6106205	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact		Recorders	Kayandel Archaeological Services,Miss.Meggan Walker					Permits		
55-1-0057	PEC-E-47	GDA	55	385521	6120787	Open site	Valid	Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0060	PEC-E-50	GDA	55	385613	6120756	Open site	Valid	Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0053	B-M-3	AGD	55	412320	6109730	Open site	Valid	Earth Mound : -, Hearth : -	Mound (Oven)	97990
Contact		Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits		
55-2-0090	PEC-E-56	GDA	55	413117	6109203	Open site	Valid	Earth Mound : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0089	PEC-E-55	GDA	55	411016	6108454	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0059	PEC-E-49	GDA	55	385552	6120798	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0055	B-M-1	AGD	55	412320	6109730	Open site	Valid	Earth Mound : -, Hearth : -	Mound (Oven)	97990
Contact		Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits		

Report generated by AHIMS Web Service on 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937. Number of Aboriginal sites and Aboriginal objects found is 24

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.

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Solar 1

Client Service ID : 766109

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0054	PEC-E-44	GDA	55	383788	6123418	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0056	PEC-E-46	GDA	55	383996	6122996	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0063	PEC-E-53	GDA	55	399467	6115822	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0062	PEC-E-52	GDA	55	399085	6115989	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0085	PEC-E-60	GDA	55	425212	6109136	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0054	B-M-2	AGD	55	412320	6109730	Open site	Valid	Earth Mound : -, Hearth : -	Mound (Oven)	
Contact		Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits		
55-2-0056	W-ST-1	AGD	55	425650	6120520	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits		
49-4-0146	Coleambally Rogarts rd Scar Tree 1	GDA	55	390447	6134196	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
55-1-0058	PEC-E-48	GDA	55	385556	6120785	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		

**** 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 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937. Number of Aboriginal sites and Aboriginal objects found is 24

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Wind 1

Client Service ID : 766066

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0201	Mungadal Scar Tree 3	GDA	55	313060	6141964	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Mr.Peter Ingram					**Permits**		
54-2-0034	Booabula East 1	AGD	55	314600	6095800	Open site	Valid	Burial : 1, Hearth : -, Non-Human Bone and Organic Material : -, Shell : -		
	Contact Ms.Catherine M Cridland	**Recorders**	Harvey Johnston					**Permits**		
49-4-0230	PEC-E-42	GDA	55	371727	6139121	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-6-0131	South Burrabogie 1.1	AGD	55	331332	6144997	Open site	Valid	Artefact : -, Earth Mound : -		
	Contact	**Recorders**	Doctor.Sarah Martin					**Permits**		
48-6-0133	South Burrabogie 1.3	AGD	55	331415	6144960	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Doctor.Sarah Martin					**Permits**		
48-6-0161	PEC-E-39	GDA	55	338916	6142038	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
54-3-0033	Hartwood Weir Scarred Tree 2	GDA	55	344514	6090124	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0029	Hartwood Weir Scarred Tree 3	GDA	55	344558	6090081	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0031	Forest Creek Block Bank Scarred Tree 2	GDA	55	344956	6089378	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0022	MVNP-Tholobin-Modified Tree Food Gathering	GDA	55	329650	6085148	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Mr.Mick Lalor					**Permits**		
55-1-0055	PEC-E-45	GDA	55	383901	6123009	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0007	Billabong Creek;	AGD	55	378225	6088984	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	ASRSYS					**Permits**		
48-5-0413	West Wargan H1	GDA	55	309076	6131793	Open site	Valid	Hearth : -		

Report generated by AHIMS Web Service on 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876. Number of Aboriginal sites and Aboriginal objects found is 94

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	Ms.Amanda Lavender,DPIE - Armidale					**Permits**		
48-5-0451	PEC-E-34	GDA	55	312107	6145224	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	313098	6141869	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Mr.Peter Ingram					**Permits**		
55-1-0030	Brookvale 4	AGD	55	377750	6089075	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
48-6-0136	South Burrabogie 1.6	AGD	55	331609	6145031	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Doctor.Sarah Martin					**Permits**		
48-6-0163	PEC-E-41	GDA	55	349973	6142084	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0010	Wilson's Rd Scarred Tree;	AGD	55	380020	6090510	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Harvey Johnston					**Permits**		
55-1-0005	Billabong Creek;	AGD	55	381064	6088464	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	ASRSYS					**Permits**		
55-1-0049	JE-IF-002	GDA	55	390511	6094259	Open site	Valid	Artefact : 1		
	Contact	**Recorders**	Kayandel Archaeological Services,Miss.Meggan Walker					**Permits**		
55-1-0048	JE-IF-001	GDA	55	390843	6096680	Open site	Valid	Artefact : 1		
	Contact	**Recorders**	Kayandel Archaeological Services,Miss.Meggan Walker					**Permits**		
55-1-0038	Tooleybuc Bridge PAD	GDA	55	365638	6117781	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Mr.Jeffrey Hill					**Permits**		
54-3-0019	Oddys Drain 1;CSIRO;	AGD	55	318930	6085720	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Ms.Vanessa Edmonds					**Permits**		
55-1-0033	Brookvale 7	AGD	55	377651	6089274	Open site	Valid	Artefact : 3		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
55-1-0037	Brookvale 11	AGD	55	377871	6088998	Open site	Valid	Artefact : 67, Earth Mound : 10, Shell : -, Non-Human Bone and Organic Material : -		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		

Report generated by AHIMS Web Service on 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876. Number of Aboriginal sites and Aboriginal objects found is 94

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Wind 1

Client Service ID : 766066

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0051	CO-ST-001	GDA	55	388850	6106205	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact		Recorders	Kayandel Archaeological Services,Miss.Meggan Walker					Permits		
49-4-0223	CO-ST-002	GDA	55	395322	6141764	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact		Recorders	Kayandel Archaeological Services,Miss.Meggan Walker					Permits		
54-3-0009	D D #7;	AGD	55	343800	6091300	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
Contact		Recorders	J Carroll,George McIntyre					Permits		
54-3-0026	Hartwood Weir Scarred Tree 1	GDA	55	344514	6090124	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					Permits		
54-3-0015	Picaninny Creek;	AGD	55	328700	6088500	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	J Brickhill					Permits		
55-1-0057	PEC-E-47	GDA	55	385521	6120787	Open site	Valid	Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0060	PEC-E-50	GDA	55	385613	6120756	Open site	Valid	Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0052	PEC-E-G2	GDA	55	380298	6124522	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mr.Adrian Cressey					Permits		
55-1-0053	PEC-E-43	GDA	55	380305	6124520	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0195	Mungadal Scar Tree 4	GDA	55	313062	6141934	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
55-1-0031	Brookvale 5	AGD	55	377711	6089125	Open site	Valid	Artefact : 6		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
48-6-0137	South Burrabogie 1.7	AGD	55	331328	6144784	Open site	Valid	Water Hole : -		
Contact		Recorders	Doctor.Colin Pardoe					Permits		
48-6-0132	South Burrabogie 1.2	AGD	55	331377	6145011	Open site	Valid	Artefact : -, Earth Mound : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		

Report generated by AHIMS Web Service on 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876. Number of Aboriginal sites and Aboriginal objects found is 94

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Wind 1

Client Service ID : 766066

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
49-4-0226	CO-ST-005	GDA	55	395982	6146413	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact		Recorders	Kayandel Archaeological Services,Miss.Meggan Walker					Permits		
54-3-0034	Forest Creek Block Bank Scarred Tree 3	GDA	55	344983	6089467	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					Permits		
55-1-0059	PEC-E-49	GDA	55	385552	6120798	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
54-3-0032	Wilson's Anabranch Scarred Tree 1	GDA	55	358030	6095580	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					Permits		
48-5-0449	PEC-E-32	GDA	55	311626	6145206	Open site	Valid	Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0199	Mungadal Scar Tree 6	GDA	55	313176	6141902	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
55-1-0036	Brookvale 10	AGD	55	377590	6089309	Open site	Valid	Artefact : 4, Earth Mound : 10		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
48-6-0135	South Burrabogie 1.5	AGD	55	331569	6144904	Open site	Valid	Artefact : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		
54-3-0012	D D #6;	AGD	55	344100	6089600	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
Contact		Recorders	Doctor.Susan (left ahms) Mcintyre-Tamwoy					Permits		
54-3-0021	MVNP-Tholobin-Modified Tree	GDA	55	329442	6085634	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Mick Lalor					Permits		
55-1-0054	PEC-E-44	GDA	55	383788	6123418	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0056	PEC-E-46	GDA	55	383996	6122996	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0027	Brookvale 1	AGD	55	378098	6088945	Open site	Valid	Artefact : 14		
Contact		Recorders	Doctor.Chris Clarkson					Permits		

Report generated by AHIMS Web Service on 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876. Number of Aboriginal sites and Aboriginal objects found is 94

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Wind 1

Client Service ID : 766066

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0009	Billabong Creek;	AGD	55	378225	6088984	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	ASRSYS					Permits		
54-4-0031	Canoe Tree.;	AGD	55	309400	6087000	Open site	Valid	Modified Tree (Carved or Scarred) : -	Carved Tree,Scarred Tree	884
Contact		Recorders	C Walker					Permits		
48-5-0446	PEC-E-29	GDA	55	310836	6145331	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0450	PEC-E-33	GDA	55	311768	6145168	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0202	Mungadal Scar Tree 2	GDA	55	313072	6141915	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0197	Mungadal Scar Tree 5	GDA	55	313151	6141888	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-6-0165	PEC-E-36	GDA	55	318875	6145231	Open site	Valid	Artefact : -, Hearth : -, Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0034	Brookvale 8	AGD	55	377639	6089234	Open site	Valid	Artefact : 7		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
55-1-0003	Billabong Creek;	AGD	55	377947	6089347	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	ASRSYS					Permits		
55-1-0028	Brookvale 2	AGD	55	378028	6088983	Open site	Valid	Artefact : 14, Earth Mound : 1		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
54-3-0028	Piccaninny Weir Scarred Tree 2	GDA	55	324268	6091594	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					Permits		
48-6-0139	South Burrabogie 2	AGD	55	331793	6144274	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		

Report generated by AHIMS Web Service on 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876. Number of Aboriginal sites and Aboriginal objects found is 94

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Wind 1

Client Service ID : 766066

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
54-3-0030	Forest Creek Block Bank Scarred Tree 1	GDA	55	344769	6089478	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
55-1-0008	Billabong Creek;	AGD	55	378684	6088806	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	ASRSYS					**Permits**		
49-4-0016	DB #11;Clifford Down;	AGD	55	378650	6146450	Open site	Valid	Artefact : -, Modified Tree (Carved or Scarred) : -	Open Camp Site,Scarred Tree	1326,98206
	Contact	**Recorders**	Mr.I George,Doctor.Susan (left ahms) Mcintyre-Tamwoy					**Permits**		
55-1-0004	Billabong Creek;	AGD	55	381062	6088647	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	ASRSYS					**Permits**		
48-6-0166	PEC-E-37	GDA	55	321210	6144879	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0447	PEC-E-30	GDA	55	310929	6145270	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0198	Mungadal Scar Tree 7	GDA	55	312590	6142154	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Mr.Peter Ingram					**Permits**		
48-5-0203	Mungadal Scar Tree 1	GDA	55	313044	6141767	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Mr.Peter Ingram					**Permits**		
48-5-0200	Mungadal Scar Tree 8	GDA	55	313204	6142001	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Mr.Peter Ingram					**Permits**		
55-1-0035	Brookvale 9	AGD	55	377575	6089446	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
55-1-0032	Brookvale 6	AGD	55	377690	6089164	Open site	Valid	Artefact : 36, Earth Mound : 8, Non-Human Bone and Organic Material : -, Shell : -		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		

Report generated by AHIMS Web Service on 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876. Number of Aboriginal sites and Aboriginal objects found is 94

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0002	Billabong Creek;	AGD	55	377947	6089347	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	ASRSYS					Permits		
55-1-0029	Brookvale 3	AGD	55	377967	6088993	Open site	Valid	Artefact : 2		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
48-6-0134	South Burrabogie 1.4	AGD	55	331448	6144923	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		
49-4-0225	CO-ST-004	GDA	55	395983	6146433	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact		Recorders	Kayandel Archaeological Services,Miss.Meggan Walker					Permits		
54-3-0014	D D #6;	AGD	55	344000	6089800	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
Contact		Recorders	J Carroll,George McIntyre					Permits		
54-3-0010	D D #6;	AGD	55	344100	6089900	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326,1352
Contact		Recorders	J Carroll,George McIntyre					Permits		
54-3-0013	D D #6;	AGD	55	344100	6089900	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
Contact		Recorders	J Carroll,George McIntyre					Permits		
54-3-0011	D D #9;	AGD	55	344200	6093600	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
Contact		Recorders	Doctor.Susan (left ahms) Mcintyre-Tamwoy					Permits		
48-6-0162	PEC-E-40	GDA	55	347789	6142051	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0006	Billabong Creek;	AGD	55	381064	6088464	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	ASRSYS					Permits		
49-4-0146	Coleambally Rogarts rd Scar Tree 1	GDA	55	390447	6134196	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0448	PEC-E-31	GDA	55	311227	6145296	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-6-0164	PEC-E-35	GDA	55	317974	6144178	Open site	Valid	Artefact : -		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305 Dinawan Wind 1

Client Service ID : 766066

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
54-3-0027	Piccaninny Weir Scarred Tree 1	GDA	55	324392	6091487	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
48-6-0138	South Burrabogie 1.8	AGD	55	331378	6145158	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Doctor.Sarah Martin					**Permits**		
55-1-0058	PEC-E-48	GDA	55	385556	6120785	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-6-0160	PEC-E-38	GDA	55	335834	6142168	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
49-4-0224	CO-ST-003	GDA	55	395994	6146504	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Kayandel Archaeological Services,Miss.Meggan Walker					**Permits**		
49-4-0063	Coleambally Golf Club	GDA	55	397109	6146245	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact Gerry Saals	**Recorders**	Mr.Stephen Johnston					**Permits**		

**** 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 22/03/2023 for Taylar Reid for the following area at Lat, Long From : -35.3759, 144.8988 - Lat, Long To : -34.8141, 145.8876. Number of Aboriginal sites and Aboriginal objects found is 94

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.

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907170

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-2-0083	PEC-E-58	GDA	55	413484	6109437	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0055	PEC-E-45	GDA	55	383901	6123009	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0088	DEHS-2023-H6	GDA	55	384908	6118565	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,EMM Consulting - St Leonards - In						Permits		
55-2-0084	PEC-E-59	GDA	55	423852	6109789	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0061	PEC-E-51	GDA	55	398998	6116028	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0064	PEC-E-54	GDA	55	403814	6108516	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0169	DEHW-OA8	GDA	55	383452	6122834	Open site	Valid	Aboriginal Resource and Gathering : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0099	DEHS-2023-AS8	GDA	55	381729	6117087	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0101	DEH-2023-WT1	GDA	55	392577	6117041	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0102	DEHS-2023-HIF1	GDA	55	384045	6118714	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,EMM Consulting - St Leonards - In						Permits		
55-1-0065	PEC-E-112	GDA	55	408503	6106722	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mr.Christian Keyes						Permits		
55-2-0095	PEC-E-PAD31	GDA	55	424875	6109197	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
55-1-0069	DEHS-2023-ST1	GDA	55	394006	6118538	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0074	DEHS-2023-IF3	GDA	55	387327	6116732	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0079	DEHs-2023-HAS4	GDA	55	386001	6117645	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0080	DEHS-2023-IF2	GDA	55	384780	6118609	Open site	Valid	Artefact : -, Hearth : -		

Report generated by AHIMS Web Service on 04/07/2024 for Mel Thomson (Emm Consulting) for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937.

Number of Aboriginal sites and Aboriginal objects found is 75

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.

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907170

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0083	DEHS-2023-AS1	GDA	55	390136	6117387	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0093	DEHS-2023-H1	GDA	55	387222	6118682	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-2-0052	B-M/OS-1	AGD	55	410110	6109550	Open site	Valid	Earth Mound : -, Hearth : -, Artefact : -	Mound (Oven),Open Camp Site	97990
	Contact	**Recorders**	Central West Archaeological and Heritage Services Pty Ltd					**Permits**		
55-2-0082	PEC-E-57	GDA	55	413389	6109268	Open site	Valid	Artefact : -, Earth Mound : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0057	PEC-E-47	GDA	55	385521	6120787	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0060	PEC-E-50	GDA	55	385613	6120756	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0051	CO-ST-001	GDA	55	388850	6106205	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Kayandel Archaeological Services,Miss.Meggan Walker					**Permits**		
55-2-0096	PEC-E-PAD30	GDA	55	423794	6109827	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
55-1-0132	PEC-E-PAD27	GDA	55	383047	6124703	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
55-1-0068	DEHS-2023-ST4	GDA	55	383641	6120269	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0070	DEHS-2023-ST2	GDA	55	394026	6118536	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0073	DEHS-2023-IF5	GDA	55	385867	6118809	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0094	DEHS-2023-AS7	GDA	55	385446	6120591	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		

Report generated by AHIMS Web Service on 04/07/2024 for Mel Thomson (Emm Consulting) for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937.

Number of Aboriginal sites and Aboriginal objects found is 75

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907170

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-2-0053	B-M-3	AGD	55	412320	6109730	Open site	Valid	Earth Mound : -, Hearth : -	Mound (Oven)	97990
Contact	Recorders	Central West Archaeological and Heritage Services Pty Ltd						Permits		
55-1-0059	PEC-E-49	GDA	55	385552	6120798	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-2-0089	PEC-E-55	GDA	55	411016	6108454	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-2-0090	PEC-E-56	GDA	55	413117	6109203	Open site	Valid	Earth Mound : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0153	DEHW-2023-ASPAD5	GDA	55	383449	6122839	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0159	DEHW-2023-AS23	GDA	55	387046	6123890	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0164	DEHW-2023-HAS9	GDA	55	383137	6122931	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0076	DEHS-2023-HAS1	GDA	55	386986	6117838	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0167	DEHW-2023-HIF3	GDA	55	382177	6122804	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0084	DEHS-2023-AS2	GDA	55	387000	6118106	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0085	DEHS-2023-AS3	GDA	55	389529	6119361	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0090	DEHS-2023-H4	GDA	55	384563	6119020	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-2-0055	B-M-1	AGD	55	412320	6109730	Open site	Valid	Earth Mound : -, Hearth : -	Mound (Oven)	97990
Contact	Recorders	Central West Archaeological and Heritage Services Pty Ltd						Permits		
55-1-0054	PEC-E-44	GDA	55	383788	6123418	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0056	PEC-E-46	GDA	55	383996	6122996	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0063	PEC-E-53	GDA	55	399467	6115822	Open site	Valid	Artefact : -		

Report generated by AHIMS Web Service on 04/07/2024 for Mel Thomson (Emm Consulting) for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937.

Number of Aboriginal sites and Aboriginal objects found is 75

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907170

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0163	DEHW-2023-HAS12	GDA	55	390345	6126225	Open site	Valid	Artefact : -, Earth Mound : -, Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
55-1-0066	PEC-E-110	GDA	55	402471	6110850	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mr.Christian Keyes					Permits		
55-1-0067	PEC-E-111	GDA	55	402734	6110289	Open site	Valid	Artefact : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mr.Christian Keyes					Permits		
55-1-0077	DEHS-2023-HAS2	GDA	55	385726	6118541	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0081	DEHS-2023-HIF3	GDA	55	387243	6118461	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0082	DEHS-2023-IF1	GDA	55	385085	6117870	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0131	PEC-E-95	GDA	55	383155	6124024	Open site	Valid	Artefact : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
55-1-0096	DEHS-2023-AS5	GDA	55	387335	6118532	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-2-0085	PEC-E-60	GDA	55	425212	6109136	Open site	Valid	Artefact : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0062	PEC-E-52	GDA	55	399085	6115989	Open site	Valid	Artefact : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-2-0097	PEC-E-PAD29	GDA	55	413746	6109573	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
55-1-0078	DEHS-2023-HAS3	GDA	55	384517	6118588	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0087	DEHS-2023-H7	GDA	55	385261	6118476	Open site	Valid	Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-2-0054	B-M-2	AGD	55	412320	6109730	Open site	Valid	Earth Mound : -, Hearth : -	Mound (Oven)	
	Contact	Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits		
55-2-0056	W-ST-1	AGD	55	425650	6120520	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits		

Report generated by AHIMS Web Service on 04/07/2024 for Mel Thomson (Emm Consulting) for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937.

Number of Aboriginal sites and Aboriginal objects found is 75

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907170

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
49-4-0146	Coleambally Rogarts rd Scar Tree 1	GDA	55	390447	6134196	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Mr.Peter Ingram					**Permits**		
55-1-0072	DEHS-2023-IF6	GDA	55	386365	6117349	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0097	DEHS-2023-ST5	GDA	55	387075	6121441	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0089	DEHS-2023-H5	GDA	55	384700	6118635	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0091	DEHS-2023-H3	GDA	55	387224	6118338	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0058	PEC-E-48	GDA	55	385556	6120785	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0103	DEHS-2023-HIF2	GDA	55	385346	6118404	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-2-0093	PEC-E-PAD32	GDA	55	425002	6109174	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
55-2-0094	PEC-E-PAD33	GDA	55	425309	6109262	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
55-1-0071	DEHS-2023-ST3	GDA	55	384518	6120165	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0075	DEHS-2023-IF4	GDA	55	388641	6118418	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0098	DEHS-2023-ST6	GDA	55	387193	6121537	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0086	DEHS-2023-AS4	GDA	55	387864	6116979	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		

Report generated by AHIMS Web Service on 04/07/2024 for Mel Thomson (Emm Consulting) for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937.

Number of Aboriginal sites and Aboriginal objects found is 75

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907170

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0092	DEHS-2023-H2	GDA	55	387305	6118411	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0095	DEHS-2023-AS6	GDA	55	393610	6117149	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		

**** 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 04/07/2024 for Mel Thomson (Emm Consulting) for the following area at Lat, Long From : -35.1881, 145.6993 - Lat, Long To : -34.9071, 146.1937.

Number of Aboriginal sites and Aboriginal objects found is 75

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907615

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
54-2-0034	Booabula East 1	AGD	55	314600	6095800	Open site	Valid	Burial : 1, Hearth : -, Non-Human Bone and Organic Material : -, Shell : -		
	Contact Ms.Catherine M Cridland	**Recorders**	Harvey Johnston					**Permits**		
54-3-0022	MVNP-Tholobin-Modified Tree Food Gathering	GDA	55	329650	6085148	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Mr.Mick Lalor					**Permits**		
54-3-0033	Hartwood Weir Scarred Tree 2	GDA	55	344514	6090124	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0048	PW North Scarred Tree 3	GDA	55	324492	6091891	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-3-0029	Hartwood Weir Scarred Tree 3	GDA	55	344558	6090081	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0031	Forest Creek Block Bank Scarred Tree 2	GDA	55	344956	6089378	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-2-0256	WSCC iso 2	GDA	55	302891	6097294	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					**Permits**		
54-2-0057	Clarke's Creek 2	GDA	55	302141	6096919	Open site	Valid	Artefact : -, Non-Human Bone and Organic Material : -, Burial : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Doctor.Colin Pardoe,Doctor.Sarah Martin,Ms.Ashley Edwards,NPWS Nowra					**Permits**		
54-3-0017	Oddys Drain 3;CSIRO;	AGD	55	320750	6080410	Open site	Valid	Earth Mound : -, Hearth : -, Artefact : -	Isolated Find,Mound (Oven)	
	Contact	**Recorders**	Ms.Vanessa Edmonds					**Permits**		
54-2-0254	Wanganella Swamp Estuary Creek Hammer Stone 1Â	GDA	55	303615	6097668	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					**Permits**		
54-3-0046	FC Earth Mound 1 | FC North Earth Feature 1	GDA	55	331932	6088141	Open site	Valid	Earth Mound : -		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907615

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					**Permits**		
54-3-0015	Picaninny Creek;	AGD	55	328700	6088500	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	J Brickhill					**Permits**		
54-3-0019	Oddys Drain 1;CSIRO;	AGD	55	318930	6085720	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Ms.Vanessa Edmonds					**Permits**		
54-3-0003	Mayrung;TO79;	AGD	55	346149	6078603	Open site	Valid	Artefact : -	Open Camp Site	884
	Contact	**Recorders**	ASRSYS					**Permits**		
54-3-0009	D D #7;	AGD	55	343800	6091300	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
	Contact	**Recorders**	J Carroll,George McIntyre					**Permits**		
54-2-0249	Old Wanganella Homestead Scarred Tree 2	GDA	55	301841	6100472	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0050	PW North AS2	GDA	55	324616	6091860	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-3-0057	Forest Creek Block Bank Scarred Tree 4	GDA	55	344938	6089381	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Austral Archaeology,Miss.Carmen Baulch					**Permits**		
54-3-0026	Hartwood Weir Scarred Tree 1	GDA	55	344514	6090124	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-2-0258	WSCC ISO 4	GDA	55	302898	6097247	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					**Permits**		
54-3-0018	Oddys Drain @;Wanook Farm;	AGD	55	318610	6079530	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Ms.Vanessa Edmonds					**Permits**		
54-2-0033	Pretty Pine Burial;	AGD	55	306530	6079000	Open site	Valid	Burial : -	Burial/s	
	Contact	**Recorders**	Harvey Johnston					**Permits**		
54-3-0034	Forest Creek Block Bank Scarred Tree 3	GDA	55	344983	6089467	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907615

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
54-2-0250	Old Wanganella Homestead Scarred Tree 1	GDA	55	303620	6100520	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0044	PW ISO 5	GDA	55	327467	6093792	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-3-0045	FC earth mound 1	GDA	55	344768	6089476	Open site	Valid	Earth Mound : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					**Permits**		
54-3-0052	PW North ISO 10	GDA	55	324515	6091844	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-2-0257	WSC ISO 3	GDA	55	302885	6097274	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					**Permits**		
54-3-0021	MVNP-Tholobin-Modified Tree	GDA	55	329442	6085634	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Mr.Mick Lalor					**Permits**		
54-3-0012	D D #6;	AGD	55	344100	6089600	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
	Contact	**Recorders**	Doctor.Susan (left ahms) Mcintyre-Tamwoy					**Permits**		
54-3-0001	Mayrung;TO78;	AGD	55	343388	6080404	Open site	Valid	Earth Mound : -, Hearth : -, Modified Tree (Carved or Scarred) : -	Mound (Oven),Scarred Tree	884
	Contact	**Recorders**	ASRSYS					**Permits**		
54-3-0043	PW ISO 3	GDA	55	326953	6092211	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-3-0051	PW North ISO 9	GDA	55	324506	6091833	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-3-0061	Hartwood Weir Earth Mound 3	GDA	55	344312	6091133	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Austral Archaeology,Mr.Brody Saccoccia					**Permits**		
54-3-0056	Hartwood Weir Earth Mound 2	GDA	55	344262	6091268	Open site	Valid	Earth Mound : -		
	Contact	**Recorders**	Austral Archaeology,Miss.Carmen Baulch					**Permits**		
54-3-0028	Piccaninny Weir Scarred Tree 2	GDA	55	324268	6091594	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-4-0031	Canoe Tree.;	AGD	55	309400	6087000	Open site	Valid	Modified Tree (Carved or Scarred) : -	Carved Tree,Scarred Tree	884

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907615

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	C Walker					Permits		
54-2-0251	W scar tree 2	GDA	55	300259	6100576	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					Permits		
54-3-0035	PW North AS1	GDA	55	324679	6091754	Open site	Valid	Artefact : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					Permits		
54-3-0042	PW ISO 4	GDA	55	327363	6093745	Open site	Valid	Artefact : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					Permits		
54-2-0253	WSCC ISO 1	GDA	55	302891	6097295	Open site	Valid	Artefact : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					Permits		
54-3-0030	Forest Creek Block Bank Scarred Tree 1	GDA	55	344769	6089478	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					Permits		
54-2-0263	Wanganella Weir Scarred Tree 1	GDA	55	300287	6100574	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Austral Archaeology,Miss.Carmen Baulch					Permits		
54-2-0259	W scar tree 3	GDA	55	300391	6100633	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					Permits		
54-3-0010	D D #6;	AGD	55	344100	6089900	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326,1352
	Contact	Recorders	J Carroll,George McIntyre					Permits		
54-3-0011	D D #9;	AGD	55	344200	6093600	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
	Contact	Recorders	Doctor.Susan (left ahms) Mcintyre-Tamwoy					Permits		
54-3-0013	D D #6;	AGD	55	344100	6089900	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
	Contact	Recorders	J Carroll,George McIntyre					Permits		
54-3-0014	D D #6;	AGD	55	344000	6089800	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1326
	Contact	Recorders	J Carroll,George McIntyre					Permits		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907615

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
54-2-0252	W scar tree 1	GDA	55	300287	6100574	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson						Permits		
54-3-0036	PW Earth Feature 6	GDA	55	324626	6091756	Open site	Valid	Earth Mound : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly						Permits		
54-3-0037	PW Earth Feature 5	GDA	55	324343	6091645	Open site	Valid	Earth Mound : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly						Permits		
54-3-0038	PW Earth Feature 4	GDA	55	324427	6091664	Open site	Valid	Earth Mound : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly						Permits		
54-3-0039	PW Earth Feature 3	GDA	55	324421	6091627	Open site	Valid	Earth Mound : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly						Permits		
54-3-0041	PW Earth Feature 1	GDA	55	324624	6091667	Open site	Valid	Earth Mound : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly						Permits		
54-3-0049	PW North Scarred Tree 1	GDA	55	324506	6091871	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly						Permits		
54-3-0059	Hartwood Weir Scarred Tree 4	GDA	55	344938	6089381	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Austral Archaeology,Miss.Carmen Baulch						Permits		
54-3-0054	Hartwood Weir Earth Mound 1	GDA	55	344285	6091276	Open site	Valid	Earth Mound : -		
Contact	Recorders	Austral Archaeology,Miss.Carmen Baulch						Permits		
54-2-0255	WS Estuary Creek Art 1	GDA	55	303569	6097698	Open site	Valid	Artefact : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson						Permits		
54-2-0260	OWH PAD 1	GDA	55	301828	6100460	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson						Permits		
54-3-0027	Piccaninny Weir Scarred Tree 1	GDA	55	324392	6091487	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze						Permits		
54-2-0056	Clarke's Creek 1	AGD	55	302804	6097214	Open site	Valid	Artefact : -, Burial : -, Hearth : -, Non-Human Bone and Organic Material : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907615

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
54-3-0040	PW Earth Feature 2	GDA	55	324468	6091592	Open site	Valid	Earth Mound : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-3-0047	PW North Scarred Tree 2	GDA	55	324526	6091883	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Daniel Kelly					**Permits**		
54-3-0058	Forest Creek Block Bank Earth Mound 1	GDA	55	344996	6089360	Open site	Valid	Earth Mound : -		
	Contact	**Recorders**	Austral Archaeology,Miss.Carmen Baulch					**Permits**		
54-2-0264	Wanganella Weir Scarred Tree 3	GDA	55	300391	6100634	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Austral Archaeology,Miss.Carmen Baulch					**Permits**		
54-3-0055	Hartwood Weir Scarred Tree and PAD	GDA	55	344200	6091009	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Austral Archaeology,Miss.Carmen Baulch					**Permits**		

**** 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 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file BottomLeft_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 66

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907618

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0007	Billabong Creek;	AGD	55	378225	6088984	Open site	Valid	Artefact : -	Open Camp Site	
Contact		Recorders	ASRSYS					Permits		
55-1-0048	JE-IF-001	GDA	55	390843	6096680	Open site	Valid	Artefact : 1		
Contact		Recorders	Kayandel Archaeological Services,Miss.Meggan Walker					Permits		
55-1-0049	JE-IF-002	GDA	55	390511	6094259	Open site	Valid	Artefact : 1		
Contact		Recorders	Kayandel Archaeological Services,Miss.Meggan Walker					Permits		
55-1-0001	Four Corners Lagoon;Dunoon;	AGD	55	393674	6079998	Open site	Valid	Artefact : -, Modified Tree (Carved or Scarred) : -	Open Camp Site,Scarred Tree	
Contact		Recorders	ASRSYS					Permits		
55-1-0005	Billabong Creek;	AGD	55	381064	6088464	Open site	Valid	Artefact : -	Open Camp Site	
Contact		Recorders	ASRSYS					Permits		
55-1-0010	Wilson's Rd Scarred Tree;	AGD	55	380020	6090510	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	Harvey Johnston					Permits		
55-1-0030	Brookvale 4	AGD	55	377750	6089075	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
54-3-0060	WAO AS 1	GDA	55	363310	6094123	Open site	Valid	Artefact : -		
Contact		Recorders	Austral Archaeology,Miss.Carmen Baulch					Permits		
55-1-0033	Brookvale 7	AGD	55	377651	6089274	Open site	Valid	Artefact : 3		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
55-1-0037	Brookvale 11	AGD	55	377871	6088998	Open site	Valid	Artefact : 67, Earth Mound : 10, Shell : -, Non-Human Bone and Organic Material : -		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
55-1-0031	Brookvale 5	AGD	55	377711	6089125	Open site	Valid	Artefact : 6		
Contact		Recorders	Doctor.Chris Clarkson					Permits		
55-1-0120	Yanco Delta ISO 03	GDA	55	381789	6098891	Open site	Valid	Artefact : -		
Contact		Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					Permits		
55-1-0009	Billabong Creek;	AGD	55	378225	6088984	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact		Recorders	ASRSYS					Permits		
55-1-0027	Brookvale 1	AGD	55	378098	6088945	Open site	Valid	Artefact : 14		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907618

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
55-1-0036	Brookvale 10	AGD	55	377590	6089309	Open site	Valid	Artefact : 4, Earth Mound : 10		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
54-3-0032	Wilson's Anabranch Scarred Tree 1	GDA	55	358030	6095580	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.Gloria Aranda-Spinazze					**Permits**		
54-3-0053	Wilson Ananbranch scar tree one	GDA	55	358030	6095580	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.jake ferguson					**Permits**		
55-1-0003	Billabong Creek;	AGD	55	377947	6089347	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	ASRSYS					**Permits**		
55-1-0004	Billabong Creek;	AGD	55	381062	6088647	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	ASRSYS					**Permits**		
55-1-0008	Billabong Creek;	AGD	55	378684	6088806	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	ASRSYS					**Permits**		
55-1-0028	Brookvale 2	AGD	55	378028	6088983	Open site	Valid	Artefact : 14, Earth Mound : 1		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
55-1-0034	Brookvale 8	AGD	55	377639	6089234	Open site	Valid	Artefact : 7		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
55-1-0123	Yanco Delta Hearth 02	GDA	55	378909	6100584	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0002	Billabong Creek;	AGD	55	377947	6089347	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	ASRSYS					**Permits**		
55-1-0006	Billabong Creek;	AGD	55	381064	6088464	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	ASRSYS					**Permits**		
55-1-0029	Brookvale 3	AGD	55	377967	6088993	Open site	Valid	Artefact : 2		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907618

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0032	Brookvale 6	AGD	55	377690	6089164	Open site	Valid	Artefact : 36, Earth Mound : 8, Non-Human Bone and Organic Material : -, Shell : -		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
55-1-0035	Brookvale 9	AGD	55	377575	6089446	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Doctor.Chris Clarkson					**Permits**		
55-1-0100	WAO ISO 1	GDA	55	363783	6094353	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Austral Archaeology,Miss.Carmen Baulch					**Permits**		

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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 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file BottomRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 29

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.

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907619

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
54-2-0267	PWF SUG 32	GDA	55	315665	6124323	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
54-2-0268	PWF SUG 27	GDA	55	317005	6123849	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		

**** 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 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleLeft_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 2

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907621

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0055	PEC-E-45	GDA	55	383901	6123009	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
54-3-0066	DEHW-2023-AS17	GDA	55	356779	6123902	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0141	DEHW-2023-AS5	GDA	55	374521	6121945	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0104	Yanco Delta AS Hearth 04	GDA	55	365293	6115117	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
55-1-0108	Yanco Delta AS 09	GDA	55	364931	6114741	Open site	Valid	Artefact : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
55-1-0111	Yanco Delta AS 05	GDA	55	363612	6120601	Open site	Valid	Artefact : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
54-3-0063	Yanco Delta AS 01	GDA	55	362330	6117138	Open site	Valid	Artefact : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
55-1-0161	DEHW-2023-HASPAD1	GDA	55	371756	6123237	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0165	DEHW-2023-HAS7	GDA	55	379360	6123800	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0171	DEHW-OA7	GDA	55	374521	6121945	Open site	Valid	Aboriginal Resource and Gathering : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0135	DEHW-2023-AS22	GDA	55	372872	6122445	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0142	DEHW-2023-IF14	GDA	55	372337	6123261	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0088	DEHS-2023-H6	GDA	55	384908	6118565	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,EMM Consulting - St Leonards - In						Permits		
55-1-0061	PEC-E-51	GDA	55	398998	6116028	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0133	Yanco Delta AS PAD 01	GDA	55	368217	6112146	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Jacobs Group (Australia) Pty Ltd -						Permits		
54-3-0068	DEHW-2023-AS3	GDA	55	360275	6123651	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 106

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907621

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0169	DEHW-OA8	GDA	55	383452	6122834	Open site	Valid	Aboriginal Resource and Gathering : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0099	DEHS-2023-AS8	GDA	55	381729	6117087	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0116	Yanco Delta ISO 07	GDA	55	370198	6119687	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0117	Yanco Delta ISO 06	GDA	55	364212	6119844	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0124	Yanco Delta AS Hearth 03	GDA	55	363437	6119399	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0128	Yanco Delta Scarred Tree 02	GDA	55	370327	6120898	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0101	DEH-2023-WT1	GDA	55	392577	6117041	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0102	DEHS-2023-HIF1	GDA	55	384045	6118714	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,EMM Consulting - St Leonards - In					**Permits**		
55-1-0069	DEHS-2023-ST1	GDA	55	394006	6118538	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0074	DEHS-2023-IF3	GDA	55	387327	6116732	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0079	DEHs-2023-HAS4	GDA	55	386001	6117645	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0080	DEHS-2023-IF2	GDA	55	384780	6118609	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0136	DEHW-2023-AS21	GDA	55	379544	6124017	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0146	DEHW-2023-ST7	GDA	55	371884	6123242	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0083	DEHS-2023-AS1	GDA	55	390136	6117387	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 106

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907621

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0093	DEHS-2023-H1	GDA	55	387222	6118682	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0038	Tooleybuc Bridge PAD	GDA	55	365638	6117781	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Mr.Jeffrey Hill						Permits		
55-1-0057	PEC-E-47	GDA	55	385521	6120787	Open site	Valid	Hearth : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0060	PEC-E-50	GDA	55	385613	6120756	Open site	Valid	Hearth : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
55-1-0051	CO-ST-001	GDA	55	388850	6106205	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact	Recorders	Kayandel Archaeological Services,Miss.Meggan Walker						Permits		
55-1-0105	Yanco Delta AS Hearth 02	GDA	55	367262	6115102	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
55-1-0107	Yanco Delta AS 10	GDA	55	367643	6117544	Open site	Valid	Artefact : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
55-1-0109	Yanco Delta AS 08	GDA	55	365168	6114586	Open site	Valid	Artefact : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
54-3-0065	Yanco Delta Ring Tree 01	GDA	55	356516	6115022	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
55-1-0068	DEHS-2023-ST4	GDA	55	383641	6120269	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0070	DEHS-2023-ST2	GDA	55	394026	6118536	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0073	DEHS-2023-IF5	GDA	55	385867	6118809	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0143	DEHW-2023-STAS1	GDA	55	379663	6119890	Open site	Valid	Artefact : -, Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 106

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0145	DEHW-2023-ST11	GDA	55	371990	6123074	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0148	DEHW-2023-ST5	GDA	55	371715	6123102	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0094	DEHS-2023-AS7	GDA	55	385446	6120591	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0059	PEC-E-49	GDA	55	385552	6120798	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0112	Yanco Delta AS 04	GDA	55	364677	6117985	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0114	Yanco Delta AS 02	GDA	55	365306	6120329	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
54-3-0069	DEHW-2023-ASPAD7	GDA	55	356277	6124054	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0153	DEHW-2023-ASPAD5	GDA	55	383449	6122839	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0157	DEHW-2023-ASPAD1	GDA	55	375315	6119392	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0159	DEHW-2023-AS23	GDA	55	387046	6123890	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0164	DEHW-2023-HAS9	GDA	55	383137	6122931	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0130	Yanco Delta AS PAD Hearth 01	GDA	55	369610	6112380	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0076	DEHS-2023-HAS1	GDA	55	386986	6117838	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 106

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907621

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0167	DEHW-2023-HIF3	GDA	55	382177	6122804	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde							**Permits**
55-1-0084	DEHS-2023-AS2	GDA	55	387000	6118106	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias							**Permits**
55-1-0085	DEHS-2023-AS3	GDA	55	389529	6119361	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias							**Permits**
55-1-0090	DEHS-2023-H4	GDA	55	384563	6119020	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias							**Permits**
55-1-0054	PEC-E-44	GDA	55	383788	6123418	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini							**Permits**
55-1-0056	PEC-E-46	GDA	55	383996	6122996	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini							**Permits**
55-1-0063	PEC-E-53	GDA	55	399467	6115822	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini							**Permits**
54-3-0067	DEHW-2023-AS4	GDA	55	361119	6123989	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde							**Permits**
55-1-0113	Yanco Delta AS 03	GDA	55	364668	6120913	Open site	Valid	Art (Pigment or Engraved) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey							**Permits**
55-1-0160	DEHW-2023-HASPAD2	GDA	55	375700	6124332	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde							**Permits**
54-3-0076	DEHW-OA6	GDA	55	360275	6123651	Open site	Valid	Aboriginal Resource and Gathering : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias							**Permits**
55-1-0134	Yanco Delta AS PAD 02	GDA	55	363921	6114848	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey							**Permits**
55-1-0077	DEHS-2023-HAS2	GDA	55	385726	6118541	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias							**Permits**
55-1-0081	DEHS-2023-HIF3	GDA	55	387243	6118461	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias							**Permits**
55-1-0082	DEHS-2023-IF1	GDA	55	385085	6117870	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias							**Permits**

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 106

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907621

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0147	DEHW-2023-ST6	GDA	55	371756	6123143	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0131	PEC-E-95	GDA	55	383155	6124024	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
55-1-0096	DEHS-2023-AS5	GDA	55	387335	6118532	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0166	DEHW-2023-IF7	GDA	55	375284	6121153	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0062	PEC-E-52	GDA	55	399085	6115989	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
55-1-0110	Yanco Delta AS 07	GDA	55	370968	6120414	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0152	DEHW-2023-ASPAD8	GDA	55	374101	6121708	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0158	DEHW-2023-AS24	GDA	55	374866	6122309	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0172	DEHW-OA1	GDA	55	371756	6123143	Open site	Valid	Aboriginal Resource and Gathering : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0115	Yanco Delta ISO 08	GDA	55	370982	6120397	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0118	Yanco Delta ISO 05	GDA	55	364311	6119923	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0119	Yanco Delta ISO 04	GDA	55	365295	6115112	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0121	Yanco Delta ISO 02	GDA	55	363588	6112202	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
55-1-0078	DEHS-2023-HAS3	GDA	55	384517	6118588	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0087	DEHS-2023-H7	GDA	55	385261	6118476	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0137	DEHW-2023-AS9	GDA	55	373514	6123876	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0138	DEHW-2023-AS8	GDA	55	377384	6124274	Open site	Valid	Artefact : -		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 106

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907621

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
54-3-0062	Yanco Delta AS 06	GDA	55	356485	6115025	Open site	Valid	Artefact : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					Permits		
54-3-0064	Yanco Delta PAD 01	GDA	55	361533	6116653	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					Permits		
55-1-0122	Yanco Delta ISO 01	GDA	55	365388	6117433	Open site	Valid	Artefact : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					Permits		
55-1-0072	DEHS-2023-IF6	GDA	55	386365	6117349	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0097	DEHS-2023-ST5	GDA	55	387075	6121441	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0089	DEHS-2023-H5	GDA	55	384700	6118635	Open site	Valid	Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0091	DEHS-2023-H3	GDA	55	387224	6118338	Open site	Valid	Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0058	PEC-E-48	GDA	55	385556	6120785	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
55-1-0106	Yanco Delta AS Hearth 01	GDA	55	366166	6116941	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					Permits		
55-1-0103	DEHS-2023-HIF2	GDA	55	385346	6118404	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0071	DEHS-2023-ST3	GDA	55	384518	6120165	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0075	DEHS-2023-IF4	GDA	55	388641	6118418	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0144	DEHW-2023-ST12	GDA	55	374545	6122432	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
55-1-0098	DEHS-2023-ST6	GDA	55	387193	6121537	Open site	Valid	Modified Tree (Carved or Scarred) : -		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907621

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0086	DEHS-2023-AS4	GDA	55	387864	6116979	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0092	DEHS-2023-H2	GDA	55	387305	6118411	Open site	Valid	Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0095	DEHS-2023-AS6	GDA	55	393610	6117149	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		

**** 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 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file MiddleRight_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 106

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907624

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
49-4-0230	PEC-E-42	GDA	55	371727	6139121	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
48-6-0245	DEHW-2023-AS15	GDA	55	358626	6136340	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0140	DEHW-2023-AS6	GDA	55	377574	6125621	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0288	DEHW-2024-AS3	GDA	55	360941	6131138	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
48-6-0289	DEHW-2024-H1	GDA	55	358452	6132797	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
48-6-0264	DEHW-2023-HASST1	GDA	55	356482	6129754	Open site	Valid	Artefact : -, Hearth : -, Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0162	DEHW-2023-HAS13	GDA	55	380363	6124477	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0267	DEHW-2023-HAS8	GDA	55	361399	6139695	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0308	DEHW-OA3	GDA	55	354283	6129816	Open site	Valid	Aboriginal Resource and Gathering : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
48-6-0254	DEHW-2023-H6	GDA	55	355433	6131075	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0280	DEHW-2023-IF3	GDA	55	355607	6139751	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0283	DEHW-2023-HIF5	GDA	55	357414	6133955	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0285	DEHW-2023-HIF2	GDA	55	358514	6136524	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
49-4-0245	DEHW-2023-HH1	GDA	55	367303	6126806	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
48-6-0287	DEHW-2024-AS2	GDA	55	359608	6131096	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopMiddle_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 104

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907624

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0291	DEHW-2024-HAS1	GDA	55	357860	6127460	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0156	DEHW-2023-ASPAD2	GDA	55	378317	6125882	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
49-4-0235	DEHW-2023-HIF1	GDA	55	364374	6135649	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0129	Yanco Delta Hearth 01	GDA	55	365913	6125262	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		
48-6-0250	DEHW-2023-STAS2	GDA	55	357945	6128422	Open site	Valid	Artefact : -, Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
48-6-0272	DEHW-2023-H7	GDA	55	359740	6128712	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
49-4-0239	DEHW-2023-IF9	GDA	55	363921	6134191	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
48-6-0279	DEHW-2023-IF4	GDA	55	358131	6126108	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
48-6-0284	DEHW-2023-HIF4	GDA	55	358044	6129023	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0053	PEC-E-43	GDA	55	380305	6124520	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
49-4-0223	CO-ST-002	GDA	55	395322	6141764	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Kayandel Archaeological Services,Miss.Meggan Walker					**Permits**		
55-1-0052	PEC-E-G2	GDA	55	380298	6124522	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mr.Adrian Cressey					**Permits**		
48-6-0243	DEHW-2023-AS18	GDA	55	354940	6126271	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0155	DEHW-2023-ASPAD3	GDA	55	377809	6126139	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0127	YDWF-IF-22-01	GDA	55	364320	6124838	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey					**Permits**		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopMiddle_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 104

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
55-1-0132	PEC-E-PAD27	GDA	55	383047	6124703	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0229	PEC-E-PAD26	GDA	55	358764	6142245	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0252	DEHW-2023-ST9	GDA	55	354680	6129793	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0151	DEHW-2023-ST2	GDA	55	377526	6125755	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0255	DEHW-2023-H5	GDA	55	354286	6132164	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0256	DEHW-2023-H4	GDA	55	358249	6128957	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0257	DEHW-2023-H3	GDA	55	353610	6127609	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0227	PEC-E-94	GDA	55	358934	6142051	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0228	PEC-E-93	GDA	55	358934	6142051	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0273	DEHW-2023-ST1	GDA	55	354278	6127289	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0276	DEHW-2023-IF11	GDA	55	361790	6140726	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0281	DEHW-2023-IF2	GDA	55	360720	6128743	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0310	DEHW-CS1	GDA	55	359537	6131512	Open site	Valid	Aboriginal Resource and Gathering : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopMiddle_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 104

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907624

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
49-4-0226	CO-ST-005	GDA	55	395982	6146413	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact	Recorders	Kayandel Archaeological Services,Miss.Meggan Walker						Permits		
48-6-0242	DEHW-2023-AS19	GDA	55	355106	6126478	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0263	DEHW-2023-AS25	GDA	55	360951	6133756	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
49-4-0237	DEHW-2023-HASPAD3	GDA	55	363304	6140613	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
49-4-0243	DEHW-OA2	GDA	55	363304	6140613	Open site	Valid	Aboriginal Resource and Gathering : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
55-1-0125	YDWF-MT-22-02	GDA	55	366132	6125286	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
55-1-0126	YDWF-MT-22-01	GDA	55	366146	6125397	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey						Permits		
49-4-0242	DEHW-2024-ST1	GDA	55	367106	6127136	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias						Permits		
48-6-0258	DEHW-2023-H2	GDA	55	358138	6128541	Open site	Valid	Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
54-3-0071	DEHW-2023-HAS1	GDA	55	360514	6124913	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0275	DEHW-2023-IF12	GDA	55	356175	6139996	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0282	DEHW-2023-IF1	GDA	55	361464	6128374	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0262	DEHW-2023-AS26	GDA	55	359945	6138803	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
55-1-0163	DEHW-2023-HAS12	GDA	55	390345	6126225	Open site	Valid	Artefact : -, Earth Mound : -, Hearth : -		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopMiddle_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 104

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907624

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
55-1-0170	DEHW-OA9	GDA	55	377727	6125072	Open site	Valid	Aboriginal Resource and Gathering : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
48-6-0309	DEHW-OA5	GDA	55	358044	6129023	Open site	Valid	Aboriginal Resource and Gathering : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
48-6-0307	DEHW-2024-IF1	GDA	55	357950	6130724	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
48-6-0251	DEHW-2023-ST10	GDA	55	358416	6136966	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
55-1-0150	DEHW-2023-ST3	GDA	55	377555	6125765	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
48-6-0269	DEHW-2023-HAS5	GDA	55	357557	6128719	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
48-6-0271	DEHW-2023-HAS2	GDA	55	360381	6131348	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
48-6-0278	DEHW-2023-IF6	GDA	55	353399	6126295	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
49-4-0016	DB #11;Clifford Down;	AGD	55	378650	6146450	Open site	Valid	Artefact : -, Modified Tree (Carved or Scarred) : -	Open Camp Site,Scarred Tree	1326,98206
	Contact	Recorders	Mr.I George,Doctor.Susan (left ahms) Mcintyre-Tamwoy					Permits		
48-6-0244	DEHW-2023-AS16	GDA	55	361805	6133199	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
48-6-0246	DEHW-2023-AS13	GDA	55	360733	6138928	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
48-6-0247	DEHW-2023-AS12	GDA	55	359691	6131281	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
55-1-0139	DEHW-2023-AS7	GDA	55	378030	6125758	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					Permits		
48-6-0286	DEHW-2024-AS1	GDA	55	359300	6127510	Open site	Valid	Artefact : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		
55-1-0168	DEHW-2024-HAS4	GDA	55	375931	6125587	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					Permits		

Report generated by AHIMS Web Service on 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopMiddle_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 104

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0265	DEHW-2023-HAS11	GDA	55	360708	6129789	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0268	DEHW-2023-HAS6	GDA	55	359321	6131712	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
49-4-0233	DEHW-2023-AS1	GDA	55	376385	6130172	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0241	DEHW-2023-AS20	GDA	55	361062	6133881	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0253	DEHW-2023-ST8	GDA	55	361874	6135210	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
54-3-0072	DEHW-2023-IFPAD2	GDA	55	353969	6125301	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0274	DEHW-2023-IFPAD1	GDA	55	356385	6127913	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0277	DEHW-2023-IF10	GDA	55	358423	6137169	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
49-4-0240	DEHW-2023-IF8	GDA	55	364225	6135135	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
49-4-0241	DEHW-2023-IF5	GDA	55	377558	6127107	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
49-4-0146	Coleambally Rogarts rd Scar Tree 1	GDA	55	390447	6134196	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Mr.Peter Ingram						Permits		
49-4-0225	CO-ST-004	GDA	55	395983	6146433	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
Contact	Recorders	Kayandel Archaeological Services,Miss.Meggan Walker						Permits		
49-4-0234	DEHW-2023-AS14	GDA	55	363808	6140531	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0248	DEHW-2023-AS11	GDA	55	359706	6132005	Open site	Valid	Artefact : -		
Contact	Recorders	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde						Permits		
48-6-0290	DEHW-2024-H2	GDA	55	358465	6131879	Open site	Valid	Hearth : -		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907624

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
55-1-0154	DEHW-2023-ASPAD4	GDA	55	377727	6125072	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
49-4-0236	DEHW-2023-HASST2	GDA	55	367441	6126672	Open site	Valid	Artefact : -, Earth Mound : -, Hearth : -, Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,EMM Consulting - St Leonards - In					**Permits**		
48-6-0266	DEHW-2023-HAS10	GDA	55	354283	6129816	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
49-4-0244	DEHW-OA4	GDA	55	367303	6126806	Open site	Valid	Aboriginal Resource and Gathering : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
48-6-0240	DEHW-2023-AS2	GDA	55	360390	6129766	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
55-1-0149	DEHW-2023-ST4	GDA	55	377872	6126030	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
48-6-0259	DEHW-2023-H1	GDA	55	358650	6135501	Open site	Valid	Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
54-3-0070	DEHW-2023-HAS4	GDA	55	357279	6124976	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
49-4-0063	Coleambally Golf Club	GDA	55	397109	6146245	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact Gerry Saals	**Recorders**	Mr.Stephen Johnston					**Permits**		
49-4-0224	CO-ST-003	GDA	55	395994	6146504	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	**Recorders**	Kayandel Archaeological Services,Miss.Meggan Walker					**Permits**		
48-6-0249	DEHW-2023-AS10	GDA	55	360269	6133006	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
48-6-0292	DEHW-2024-HAS2	GDA	55	358251	6130829	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		
48-6-0293	DEHW-2024-HAS3	GDA	55	361767	6131322	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Mr.Samuel (emm consulting) Elias					**Permits**		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907624

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0260	DEHW-2023-Dune	GDA	55	359783	6131451	Open site	Valid	Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
48-6-0261	DEHW-2023-ASPAD6	GDA	55	355574	6126915	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
48-6-0270	DEHW-2023-HAS3	GDA	55	359536	6132211	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		
49-4-0238	DEHW-2023-IF13	GDA	55	375874	6127968	Open site	Valid	Artefact : -		
	Contact	**Recorders**	EMM Consulting - St Leonards - Individual users,Miss.Phillipa O'Brien-Pounde					**Permits**		

**** 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 05/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopMiddle_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 104

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907912

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0140	South Burrabogie 3	AGD	55	329282	6145844	Open site	Valid	Hearth : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		
48-6-0131	South Burrabogie 1.1	AGD	55	331332	6144997	Open site	Valid	Artefact : -, Earth Mound : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		
48-6-0133	South Burrabogie 1.3	AGD	55	331415	6144960	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		
48-6-0161	PEC-E-39	GDA	55	338916	6142038	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-6-0201	PSF 04	GDA	55	325556	6144959	Open site	Valid	Artefact : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0233	PEC-E-PAD24	GDA	55	335941	6142498	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
48-6-0222	PEC-E-101	GDA	55	332287	6142811	Open site	Valid	Artefact : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
48-6-0136	South Burrabogie 1.6	AGD	55	331609	6145031	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Doctor.Sarah Martin					Permits		
48-6-0210	PSF 10	GDA	55	329060	6145350	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0212	PSF 08	GDA	55	328755	6145394	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0200	PSF 05	GDA	55	325670	6145148	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0202	PSF 03	GDA	55	324813	6145779	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0170	Bullawah AS1 2023	GDA	55	332332	6146374	Open site	Valid	Artefact : -		
Contact		Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht					Permits		
48-6-0226	PEC-E-97	GDA	55	330621	6143127	Open site	Valid	Artefact : -		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907912

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
48-6-0168	Bullawah Site Complex 2	GDA	55	331115	6146511	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht					**Permits**		
48-6-0172	PWF SUB 01	GDA	55	327701	6143097	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0224	PEC-E-98	GDA	55	331315	6142987	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
48-6-0225	PEC-E-99	GDA	55	331549	6142980	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
48-6-0132	South Burrabogie 1.2	AGD	55	331377	6145011	Open site	Valid	Artefact : -, Earth Mound : -		
	Contact	**Recorders**	Doctor.Sarah Martin					**Permits**		
48-6-0137	South Burrabogie 1.7	AGD	55	331328	6144784	Open site	Valid	Water Hole : -		
	Contact	**Recorders**	Doctor.Colin Pardoe					**Permits**		
48-6-0211	PSF 09	GDA	55	328436	6145418	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0135	South Burrabogie 1.5	AGD	55	331569	6144904	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Doctor.Sarah Martin					**Permits**		
48-6-0171	Bullawah AS3 2023	GDA	55	333262	6146362	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht					**Permits**		
48-6-0139	South Burrabogie 2	AGD	55	331793	6144274	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Doctor.Sarah Martin					**Permits**		
48-6-0209	PSF 11	GDA	55	329291	6145057	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0199	PSF 06	GDA	55	327692	6145175	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0186	PWF SUB 02	GDA	55	326519	6142028	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0230	PEC-E-PAD25	GDA	55	338335	6142434	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
48-6-0223	PEC-E-100	GDA	55	332030	6142854	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 907912

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0134	South Burrabogie 1.4	AGD	55	331448	6144923	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Doctor.Sarah Martin						**Permits**	
48-6-0162	PEC-E-40	GDA	55	347789	6142051	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						**Permits**	
48-6-0305	PSF 13	GDA	55	329176	6145421	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Victoria Cottle						**Permits**	
48-6-0306	PSF 12	GDA	55	328977	6145142	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Victoria Cottle						**Permits**	
48-6-0169	Bullawah Earth Mound 1	GDA	55	332241	6146396	Open site	Valid	Earth Mound : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht						**Permits**	
48-6-0138	South Burrabogie 1.8	AGD	55	331378	6145158	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Doctor.Sarah Martin						**Permits**	
48-6-0160	PEC-E-38	GDA	55	335834	6142168	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						**Permits**	
48-6-0213	PSF 07	GDA	55	328195	6145102	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						**Permits**	
48-6-0185	PWF SUB 03	GDA	55	326427	6142239	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						**Permits**	
48-6-0167	Bullawah Site Complex 1	GDA	55	328874	6145769	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht						**Permits**	

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908147

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0140	South Burrabogie 3	AGD	55	329282	6145844	Open site	Valid	Hearth : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0131	South Burrabogie 1.1	AGD	55	331332	6144997	Open site	Valid	Artefact : -, Earth Mound : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0133	South Burrabogie 1.3	AGD	55	331415	6144960	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0201	PSF 04	GDA	55	325556	6144959	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0233	PEC-E-PAD24	GDA	55	335941	6142498	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0222	PEC-E-101	GDA	55	332287	6142811	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0136	South Burrabogie 1.6	AGD	55	331609	6145031	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0210	PSF 10	GDA	55	329060	6145350	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0212	PSF 08	GDA	55	328755	6145394	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0200	PSF 05	GDA	55	325670	6145148	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0170	Bullawah AS1 2023	GDA	55	332332	6146374	Open site	Valid	Artefact : -		
Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht						Permits		
48-6-0226	PEC-E-97	GDA	55	330621	6143127	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0168	Bullawah Site Complex 2	GDA	55	331115	6146511	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht						Permits		
48-6-0172	PWF SUB 01	GDA	55	327701	6143097	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		

Report generated by AHIMS Web Service on 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft4_01pg_EMM_20240708 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 35

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908147

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0224	PEC-E-98	GDA	55	331315	6142987	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0225	PEC-E-99	GDA	55	331549	6142980	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0132	South Burrabogie 1.2	AGD	55	331377	6145011	Open site	Valid	Artefact : -, Earth Mound : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0137	South Burrabogie 1.7	AGD	55	331328	6144784	Open site	Valid	Water Hole : -		
Contact	Recorders	Doctor.Colin Pardoe						Permits		
48-6-0211	PSF 09	GDA	55	328436	6145418	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0135	South Burrabogie 1.5	AGD	55	331569	6144904	Open site	Valid	Artefact : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0171	Bullawah AS3 2023	GDA	55	333262	6146362	Open site	Valid	Artefact : -		
Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht						Permits		
48-6-0139	South Burrabogie 2	AGD	55	331793	6144274	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0209	PSF 11	GDA	55	329291	6145057	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0199	PSF 06	GDA	55	327692	6145175	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0186	PWF SUB 02	GDA	55	326519	6142028	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0223	PEC-E-100	GDA	55	332030	6142854	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens						Permits		
48-6-0134	South Burrabogie 1.4	AGD	55	331448	6144923	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Doctor.Sarah Martin						Permits		
48-6-0305	PSF 13	GDA	55	329176	6145421	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Victoria Cottle						Permits		
48-6-0306	PSF 12	GDA	55	328977	6145142	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Victoria Cottle						Permits		
48-6-0169	Bullawah Earth Mound 1	GDA	55	332241	6146396	Open site	Valid	Earth Mound : -		
Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht						Permits		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908147

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0138	South Burrabogie 1.8	AGD	55	331378	6145158	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Doctor.Sarah Martin						**Permits**	
48-6-0160	PEC-E-38	GDA	55	335834	6142168	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						**Permits**	
48-6-0213	PSF 07	GDA	55	328195	6145102	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						**Permits**	
48-6-0185	PWF SUB 03	GDA	55	326427	6142239	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						**Permits**	
48-6-0167	Bullawah Site Complex 1	GDA	55	328874	6145769	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Chantelle Laucht						**Permits**	

**** 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

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908142

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0201	Mungadal Scar Tree 3	GDA	55	313060	6141964	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-6-0239	PWF SUB 09	GDA	55	321070	6138179	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0197	PWF SUC 12	GDA	55	321892	6146028	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0174	PWF SUA 04	GDA	55	318461	6143026	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0181	PWF SUC 04	GDA	55	320081	6143203	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0626	PWF SUG 19	GDA	55	317325	6129005	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0299	PWF SUG 17	GDA	55	320146	6129804	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0300	PWF SUB 12	GDA	55	320197	6136393	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0629	PWF SUG 11	GDA	55	315969	6129527	Open site	Valid	Hearth : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0196	Mungadal Hearth 1	GDA	55	313098	6141869	Open site	Valid	Hearth : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0596	PWF SUE 03	GDA	55	312615	6140883	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0236	PWF SUB 06	GDA	55	318670	6139813	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0202	PSF 03	GDA	55	324813	6145779	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908142

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0178	PWF SUC 07	GDA	55	320090	6143624	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0190	PWF SUC 19	GDA	55	320535	6141853	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-5-0594	PWF SUD 03	GDA	55	313664	6136522	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-6-0296	PWF SUG 15	GDA	55	319208	6127534	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-6-0302	PWF SUG 07	GDA	55	317575	6131581	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-5-0623	PWF SUG 28	GDA	55	316937	6127908	Open site	Valid	Artefact : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-6-0208	PWF SUC 20	GDA	55	320535	6141841	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0203	PSF 02	GDA	55	323261	6145843	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0180	PWF SUC 05	GDA	55	320096	6143502	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0183	PWF SUC 02	GDA	55	320040	6143174	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-5-0195	Mungadal Scar Tree 4	GDA	55	313062	6141934	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Mr.Peter Ingram						Permits		

Report generated by AHIMS Web Service on 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft3_01pg_EMM_20240708 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 90

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908142

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0636	PWF SUG 04	GDA	55	313490	6133302	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0234	PWF SUB 08	GDA	55	321506	6138234	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0237	PWF SUB 07	GDA	55	321350	6138662	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0196	PWF SUC 13	GDA	55	321660	6145897	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0175	PWF SUA 03	GDA	55	318145	6143959	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0176	PWF SUA 02	GDA	55	318177	6143304	Open site	Valid	Hearth : -, Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0591	PWF SUE 04	GDA	55	312859	6140931	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0634	PWF SUG 09	GDA	55	313533	6128826	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0304	PWF SUG 05	GDA	55	320385	6131123	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0620	PWF SUG 33	GDA	55	316214	6128082	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
54-2-0267	PWF SUG 32	GDA	55	315665	6124323	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908142

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0199	Mungadal Scar Tree 6	GDA	55	313176	6141902	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0595	PWF SUD 01	GDA	55	314507	6137329	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0207	PWF SUC 21	GDA	55	320302	6141798	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0191	PWF SUC 18	GDA	55	320529	6141856	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0192	PWF SUC 17	GDA	55	320264	6141825	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0193	PWF SUC 16	GDA	55	320252	6141830	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0194	PWF SUC 15	GDA	55	320279	6141853	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0195	PWF SUC 14	GDA	55	320364	6141856	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0205	PWF SUC 23	GDA	55	321066	6145259	Open site	Valid	Hearth : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0177	PWF SUA 01	GDA	55	318379	6145199	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-6-0184	PWF SUC 01	GDA	55	320056	6143200	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		

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Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908142

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0232	PEC-E-PAD23	GDA	55	321181	6144982	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
48-5-0625	PWF SUG 25	GDA	55	316986	6127127	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0294	PWF SUG 21	GDA	55	317646	6125402	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0297	PWF SUG 18	GDA	55	319531	6129691	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0635	PWF SUG 08	GDA	55	314941	6128669	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0202	Mungadal Scar Tree 2	GDA	55	313072	6141915	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-6-0165	PEC-E-36	GDA	55	318875	6145231	Open site	Valid	Artefact : -, Hearth : -, Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-6-0166	PEC-E-37	GDA	55	321210	6144879	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0197	Mungadal Scar Tree 5	GDA	55	313151	6141888	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0597	PWF SUE 05	GDA	55	312606	6141062	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0238	PWF SUB 10	GDA	55	321003	6138293	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
54-3-0075	PWF SUG 22	GDA	55	317761	6124894	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0295	PWF SUG 20	GDA	55	317739	6128806	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0298	PWF SUG 16	GDA	55	320008	6129841	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0627	PWF SUG 34	GDA	55	316236	6127834	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0630	PWF SUG 14	GDA	55	317220	6131170	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0621	PWF SUG 31	GDA	55	315085	6128367	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0622	PWF SUG 30	GDA	55	316922	6128763	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0624	PWF SUG 29	GDA	55	316800	6128483	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0198	Mungadal Scar Tree 7	GDA	55	312590	6142154	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0200	Mungadal Scar Tree 8	GDA	55	313204	6142001	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0203	Mungadal Scar Tree 1	GDA	55	313044	6141767	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.Peter Ingram					Permits		
48-5-0611	PWF SUB 04	GDA	55	316614	6137748	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-6-0235	PWF SUB 05	GDA	55	318303	6138690	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		

Report generated by AHIMS Web Service on 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft3_01pg_EMM_20240708 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 90

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.

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908142

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0198	PWF SUC 11	GDA	55	321338	6144731	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0173	PWF SUA 05	GDA	55	318419	6143044	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0179	PWF SUC 06	GDA	55	320074	6143562	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0187	PWF SUC 10	GDA	55	320474	6143904	Open site	Valid	Artefact : -, Hearth : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
48-6-0188	PWF SUC 09	GDA	55	320263	6143900	Open site	Valid	Artefact : -		
Contact	Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison						Permits		
54-2-0269	PWF SUG 26	GDA	55	317497	6125160	Open site	Valid	Artefact : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-6-0301	PWF SUB 11	GDA	55	318111	6134946	Open site	Valid	Artefact : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-5-0632	PWF SUG 12	GDA	55	316657	6128796	Open site	Valid	Artefact : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-5-0633	PWF SUG 10	GDA	55	314546	6129415	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-6-0303	PWF SUG 06	GDA	55	317603	6131199	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-6-0164	PEC-E-35	GDA	55	317974	6144178	Open site	Valid	Artefact : -		
Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini						Permits		
48-5-0638	PWF SUG 01	GDA	55	313455	6132679	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-5-0598	PWF SUE 06	GDA	55	312641	6141088	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact	Recorders	ERM Brisbane,Miss.Mia Linton-Smith						Permits		
48-5-0600	PWF SUE 02	GDA	55	312622	6140838	Open site	Valid	Modified Tree (Carved or Scarred) : -		

Report generated by AHIMS Web Service on 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft3_01pg_EMM_20240708 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 90

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908142

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-6-0206	PWF SUC 22	GDA	55	320978	6144273	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0182	PWF SUC 03	GDA	55	320050	6143190	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0189	PWF SUC 08	GDA	55	320316	6143860	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					**Permits**		
48-6-0231	PEC-E-PAD22	GDA	55	318134	6145476	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
54-3-0073	PWF SUG 24	GDA	55	317957	6124619	Open site	Valid	Hearth : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
54-3-0074	PWF SUG 23	GDA	55	317876	6124851	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		

**** 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 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft3_01pg_EMM_20240708 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 90

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908139

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-6-0161	PEC-E-39	GDA	55	338916	6142038	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-6-0230	PEC-E-PAD25	GDA	55	338335	6142434	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					**Permits**		
48-6-0162	PEC-E-40	GDA	55	347789	6142051	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		

**** 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 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft2_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 3

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908134

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0348	RV_IF_004	GDA	55	301923	6142544	Open site	Valid	Artefact : -		
Contact		Recorders	Mr.Matthew Barber,NGH Heritage - Fyshwick					Permits		
48-5-0606	PWF SUD 20	GDA	55	311599	6136448	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0608	PWF SUD 11	GDA	55	310864	6135960	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0472	PREP SU C 02	GDA	55	303199	6146962	Open site	Valid	Artefact : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0651	PREP SU1 04	GDA	55	303186	6146684	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0593	PWF SUD 04	GDA	55	312454	6136444	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0631	PWF SUG 13	GDA	55	309930	6131893	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0413	West Wargan H1	GDA	55	309076	6131793	Open site	Valid	Hearth : -		
Contact		Recorders	Ms.Amanda Lavender,DPIE - Armidale					Permits		
48-5-0451	PEC-E-34	GDA	55	312107	6145224	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		
48-5-0603	PWF SUD 14	GDA	55	310718	6136188	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0585	PEC-E-PAD19	GDA	55	310602	6145389	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
48-5-0586	PEC-E-PAD20	GDA	55	311728	6145414	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
48-5-0444	PEC-E-27	GDA	55	303434	6145460	Open site	Valid	Artefact : -, Hearth : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					Permits		

Report generated by AHIMS Web Service on 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 39

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908134

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
48-5-0599	PWF SUE 01	GDA	55	312476	6140790	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0601	PWF SUD 12	GDA	55	310791	6136003	Open site	Valid	Earth Mound : -, Hearth : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0614	PWF SUF 01	GDA	55	311960	6135054	Open site	Valid	Artefact : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0473	PREP SU C 03	GDA	55	307729	6147044	Open site	Valid	Artefact : -, Hearth : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Environmental Resources Management - Melbourne,Miss.Meghyn Mathison					Permits		
48-5-0587	PEC-E-PAD21	GDA	55	312107	6145775	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
48-5-0637	PWF SUG 02	GDA	55	312432	6132726	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0604	PWF SUD 16	GDA	55	311530	6136366	Open site	Valid	Hearth : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0610	PWF SUD 06	GDA	55	311800	6135540	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0613	PWF SUD 10	GDA	55	310898	6135933	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0588	PEC-E-PAD18	GDA	55	303305	6145567	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Navin Officer Heritage Consultants Pty Ltd,Miss.Ellaine Dickens					Permits		
48-5-0592	PWF SUD 05	GDA	55	311754	6137197	Open site	Valid	Modified Tree (Carved or Scarred) : -		
Contact		Recorders	ERM Brisbane,Miss.Mia Linton-Smith					Permits		
48-5-0628	PWF SUH 01	GDA	55	311755	6130327	Open site	Valid	Modified Tree (Carved or Scarred) : -		

Report generated by AHIMS Web Service on 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 39

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908134

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-5-0449	PEC-E-32	GDA	55	311626	6145206	Open site	Valid	Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0639	PWF SUG 03	GDA	55	312056	6132470	Open site	Valid	Artefact : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-5-0602	PWF SUD 13	GDA	55	310802	6135958	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-5-0446	PEC-E-29	GDA	55	310836	6145331	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0450	PEC-E-33	GDA	55	311768	6145168	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0607	PWF SUD 19	GDA	55	311594	6136438	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-5-0609	PWF SUD 08	GDA	55	311455	6135117	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-5-0532	PEC-E-113	GDA	55	300169	6145305	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mr.Christian Keyes					**Permits**		
48-5-0653	PREP SU1 02	GDA	55	304621	6147397	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-5-0447	PEC-E-30	GDA	55	310929	6145270	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0445	PEC-E-28	GDA	55	303615	6145507	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0448	PEC-E-31	GDA	55	311227	6145296	Open site	Valid	Artefact : -, Hearth : -		
	Contact	**Recorders**	Navin Officer Heritage Consultants Pty Ltd,Mrs.Elisa Scorsini					**Permits**		
48-5-0605	PWF SUD 09	GDA	55	311522	6135095	Open site	Valid	Artefact : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		
48-5-0612	PWF SUD 18	GDA	55	311562	6136538	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	ERM Brisbane,Miss.Mia Linton-Smith					**Permits**		

Report generated by AHIMS Web Service on 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 39

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : E220305

Client Service ID : 908134

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports

**** 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 08/07/2024 for Mel Thomson (Emm Consulting) for the following area at Search using shape-file TopLeft_01pg_EMM_20240705 with a buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 39

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D.3 Submitted site cards for newly registered sites

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS1

Easting: 390136 **Northing:** 6117387 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 1184 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Site is accessible from Bundure Rd and Kidman HWY.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	3	1	1				

Feature condition: Disturbed

Description:

Broken silcrete flake with several negative scars and platform prep on termination end. Two small highly utilized silcrete flakes, retouch on both, platform prep on broken one. All found on erosion scar and wash. Another silcrete micro flake.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: Silcrete Flake

Description: North Facing.

Description: Evident Retouch, silcrete flake.

Description: Silcrete flake.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title	Surname	First name

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS2

Easting: 387000 **Northing:** 6118106 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 111 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Site is accessible from Liddles Lane.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Erosion

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	15	30	10				

Feature condition: Erosion

Description:

6 silcrete flakes, 7 quartz flakes, one large red quartzite flake. Located on access track/erosion scald.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: Silcrete, quartz & quartzite flakes.

Description: Silcrete and quartz flakes.

Description: North facing.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS3

Easting: 389529 **Northing:** 6119361 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 | Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 50 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Site can be accessed via Liddles Lane.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Erosion

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1.	Artefact	57	50	25				

Feature condition: Erosion

Description:

Artefact scatter located on scald exposure in proximity to gilgai. 56+ flakes identified, as well as one sandstone muller fragment. Materials include quartz, quartzite, silcrete, IMT, sandstone, basalt and crystal quartz. Blades, retouch and possible heat treatment was identified.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.								

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: Quartz, quartzite and silcrete flakes

Description: Quartz, quartzite, silcrete, IMT and a tentative basalt flakes.

Description: North facing.

Description: Sandstone Muller.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title ☐ **Surname** ☐ **First name** ☐

Organisation: ☐

Address: ☐

Phone: ☐ **E-mail:** ☐

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS4

Easting: 387864 **Northing:** 6116979 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

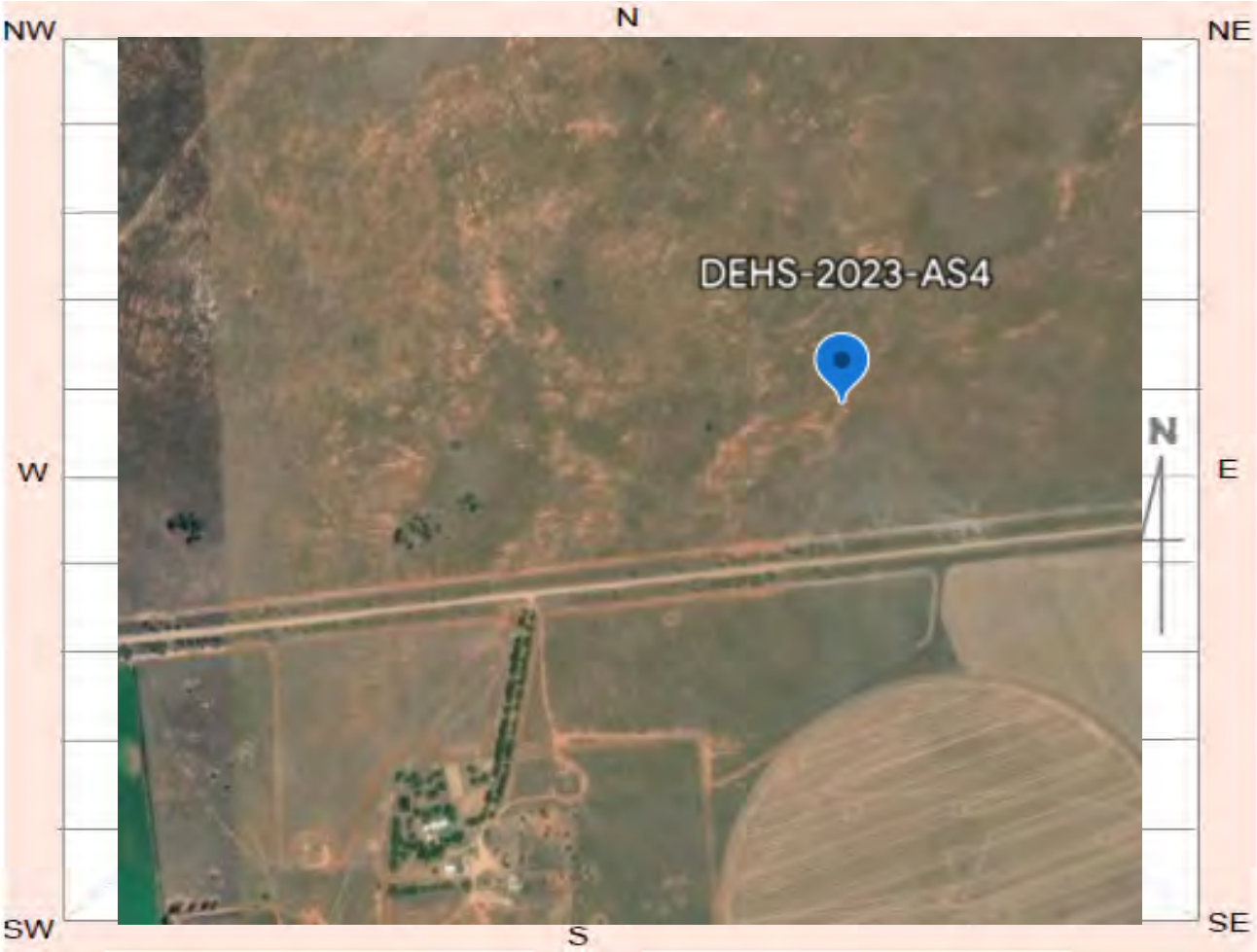
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 1393 **Primary Report:** Dinawan solar ACHA

How to get to the site: Site is accessible via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Erosion

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	3	20	10				

Feature condition: Erosion

Description:

Three milky quartz flakes. Small platforms and bulbs. Located on erosion scald.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

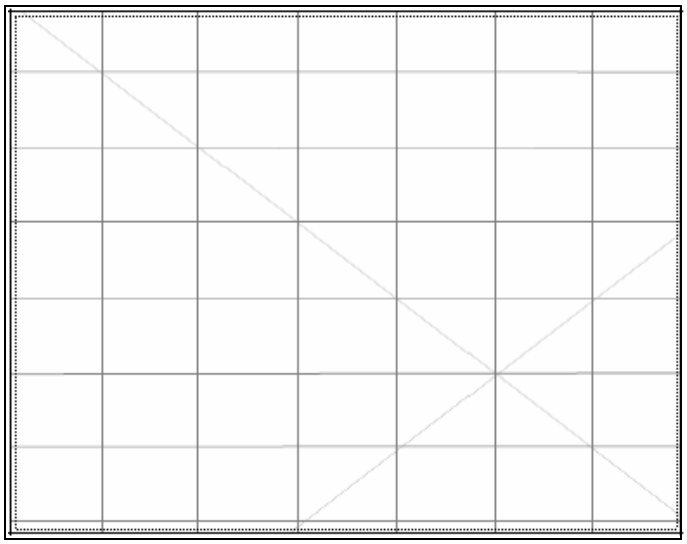
Feature condition:

Description:

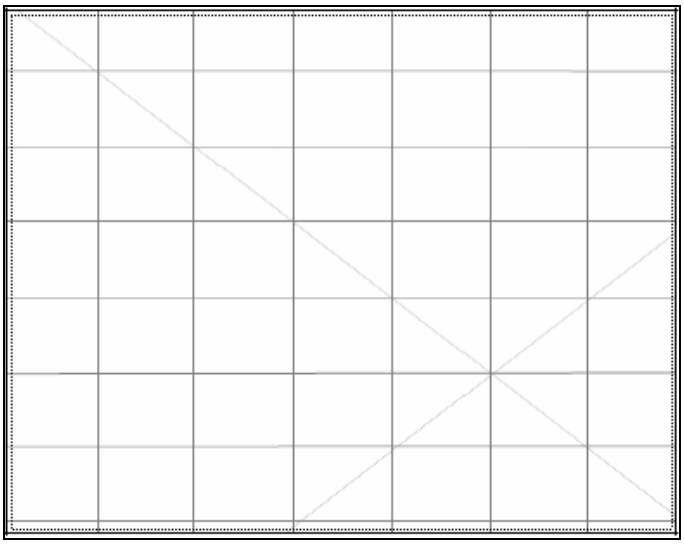
Site photographs

Description: Quartz flakes

Description: North facing.



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS5

Easting: 387335 **Northing:** 6118532 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 | Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 80 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information: Located on scald erosion. Located in proximity to wetland. Area is heavily modified for irrigation.

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	2	30	5				

Feature condition: Erosion

Description:

Silcrete flake (n=1) with retouch. Quartzite flaked piece (n=1).

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: Dorsal.

Description: Ventral.

Description: North facing.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS6

Easting: 393610 **Northing:** 6117149 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Service Corridor

Land Form Unit: Plain **Vegetation:** Grasslands

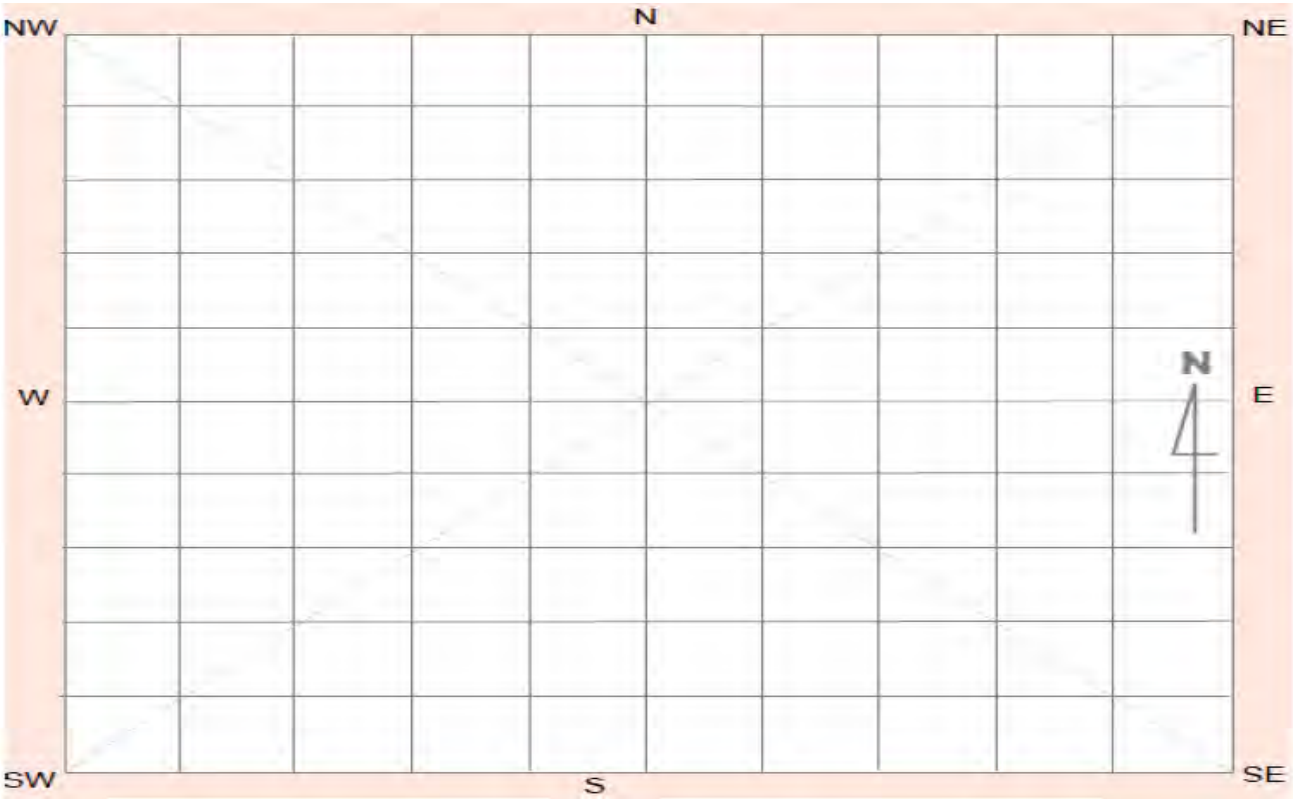
Distance to Water (m): 32 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Site is accessible via Bundure Rd.

Other site information: Located in proximity to ephemeral watercourse.

Site location map

Site plan



Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1.	Artefact	4	10	260				

Feature condition: Disturbed

Description:

Quartzite Flakes (n=2) and silcrete flake (n=2). Located on vehicle track exposure.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.								

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

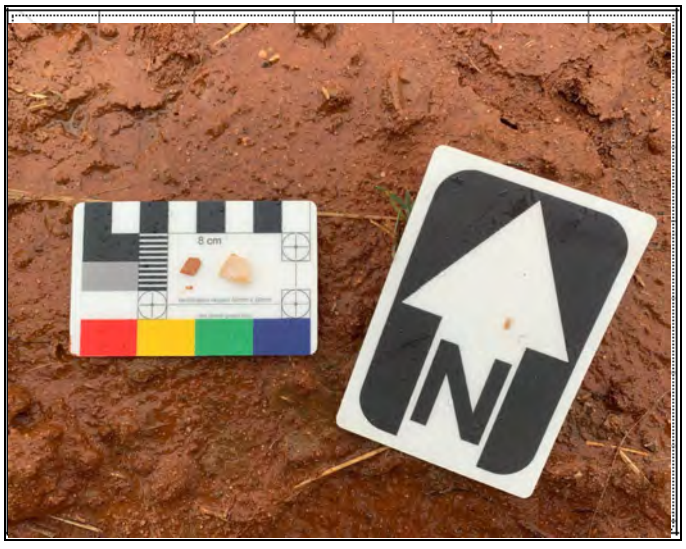
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: Quartz flake.



Description: Quartz and silcrete flake.

Description: North facing.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS7

Easting: 385446 **Northing:** 6120591 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 | Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

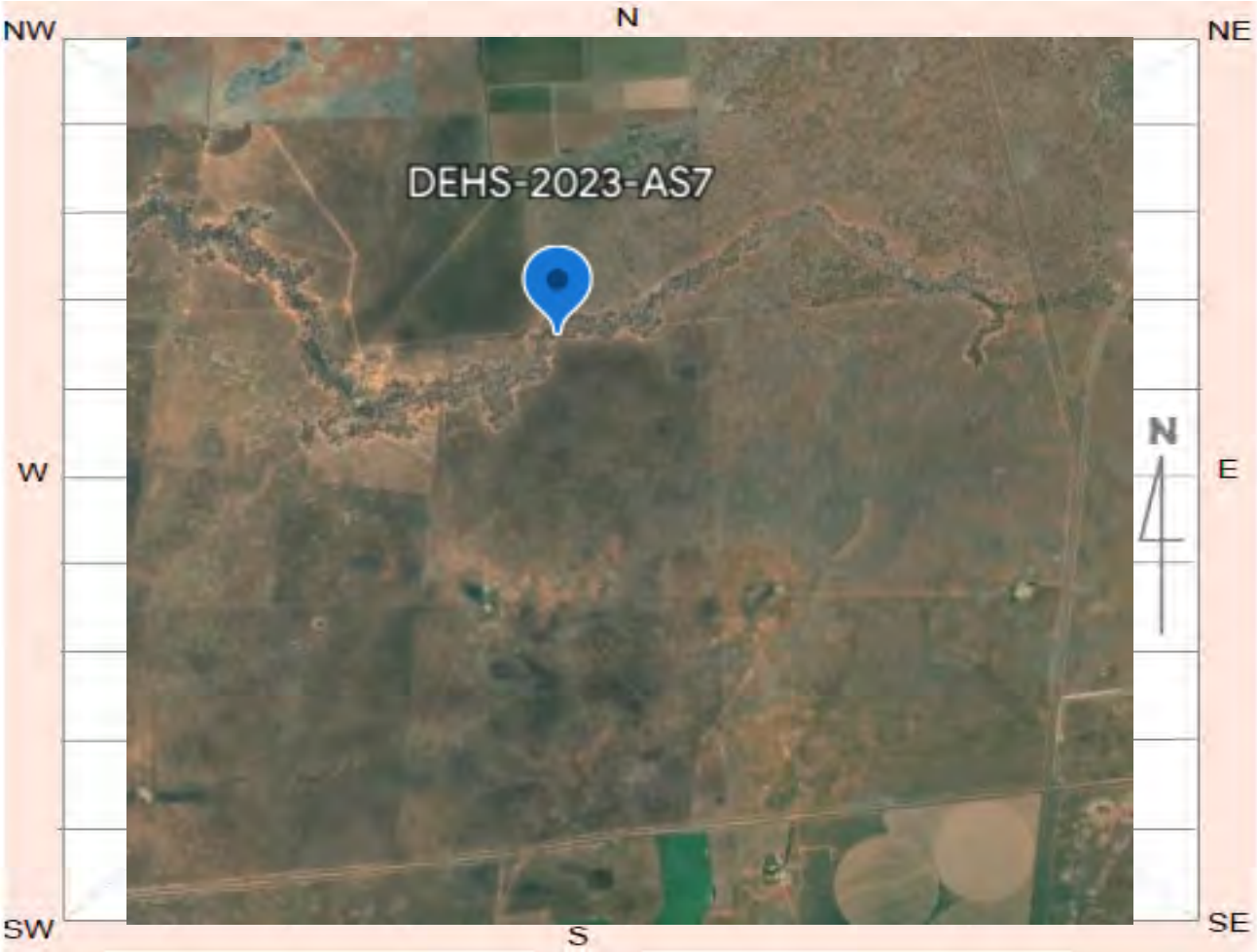
Land Form Unit: Stream Bank **Vegetation:** Isolated clumps of trees

Distance to Water (m): 25 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Site is accessible via Liddles lane or Cadell Rd.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	2	30	10				

Feature condition: Disturbed

Description:

Two quartz flakes. Identified of road exposure in proximity to ephemeral watercourse.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

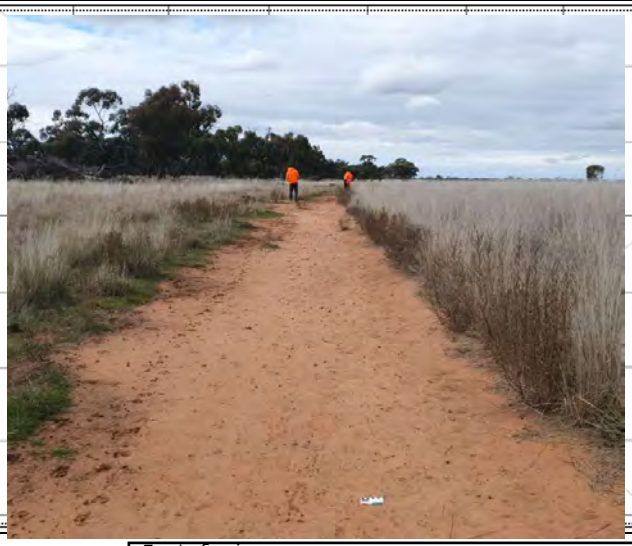
Feature condition:

Description:

Site photographs

Description: Quartz flake.

Description: Quartz flake.



Description: East facing.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: 55-1-0099 **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-AS8

Easting: 381729 **Northing:** 6117087 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 25 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information: Exposure 70%, two eco-tones of red cracking clay and brown clay loam. Vis 10%, scald exposures within grass plain.

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	7	50	25				

Feature condition: Good

Description:

Silcrete flakes (n=3), one crystal quartz flake piece, one quartz flake, and a quartzite manuport. Located on scald exposure east of ephemeral gilgai.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

Description:

Site photographs

Description: View Southeast.

Description: Crystal quartz flaked piece

Description: Silcrete flakes

Description: Quartzite manuport.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender N/A ☐ General ☐ Location

Why is this site restricted?:

Further information contact

Title	Surname	First name

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

-

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-H1

Easting: 387222 **Northing:** 6118682 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 155 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane or Cadell Rd.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open

Site condition: Weathering

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Hearth	1	2	2				

Feature condition: Weathering

Description:

Buried hearth, no clear orientation. Low density of clay ball heat retainers, dispersed. No charcoal identified. Measuring 1 x 1.4 metres.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

Description:

Site photographs

Description: North facing.

Description: Length.

Description: Width.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-H2

Easting: 387305 **Northing:** 6118411 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

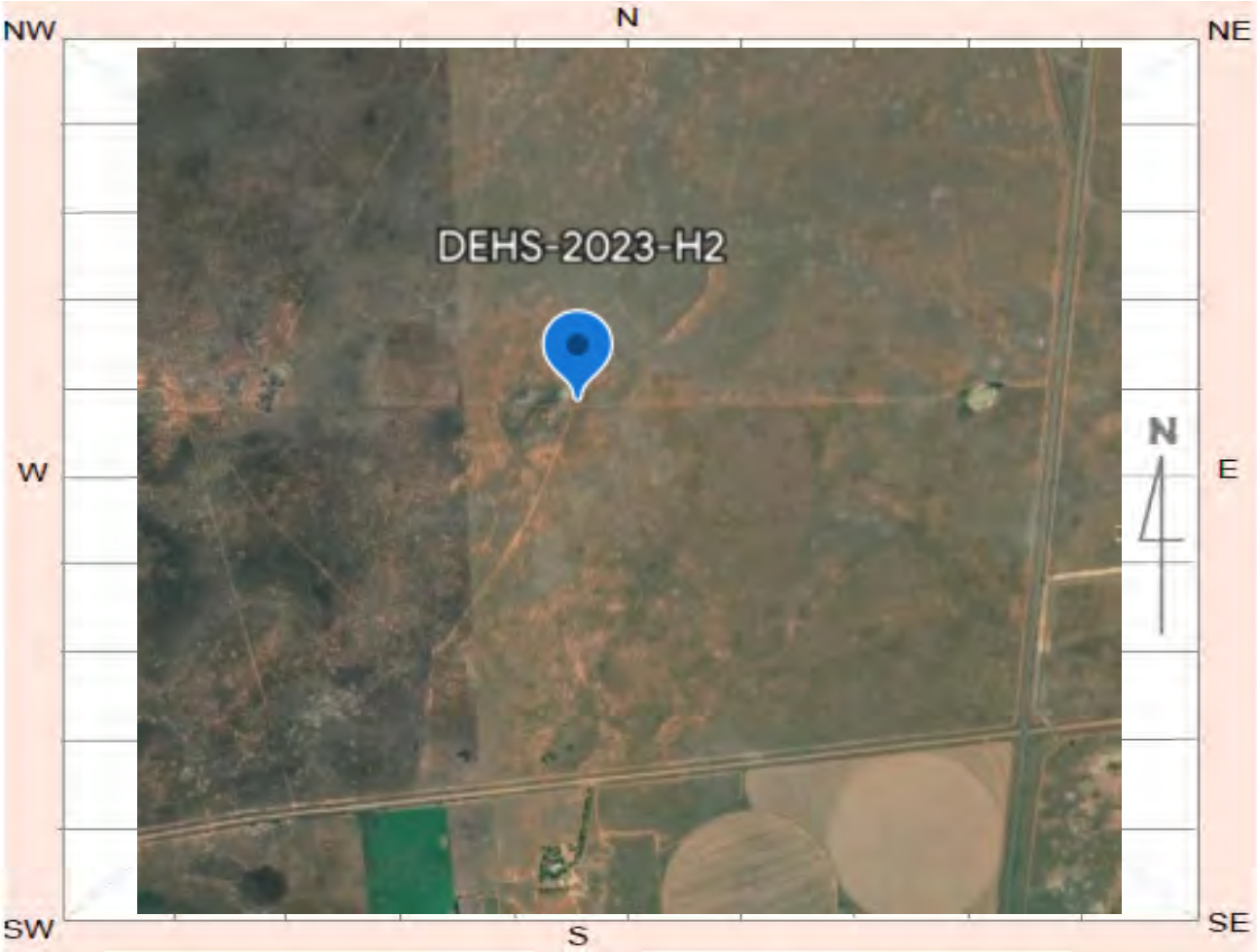
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 100 **Primary Report:** Dinawan Energy Hub

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Vehicle damage

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1.	Hearth	1	1	1				

Feature condition: Disturbed

Description:

Buried hearth, measuring 0.5 x 0.5 metres. Low density of clay ball heat retainers. Several scattered clay ball heat retainers identified in proximity, on vehicle track. No charcoal identified.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

Description:

Site photographs

Description: Hearth.

Description: East facing.

Description: Clay ball. Secondary context.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-H3

Easting: 387224 **Northing:** 6118338 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

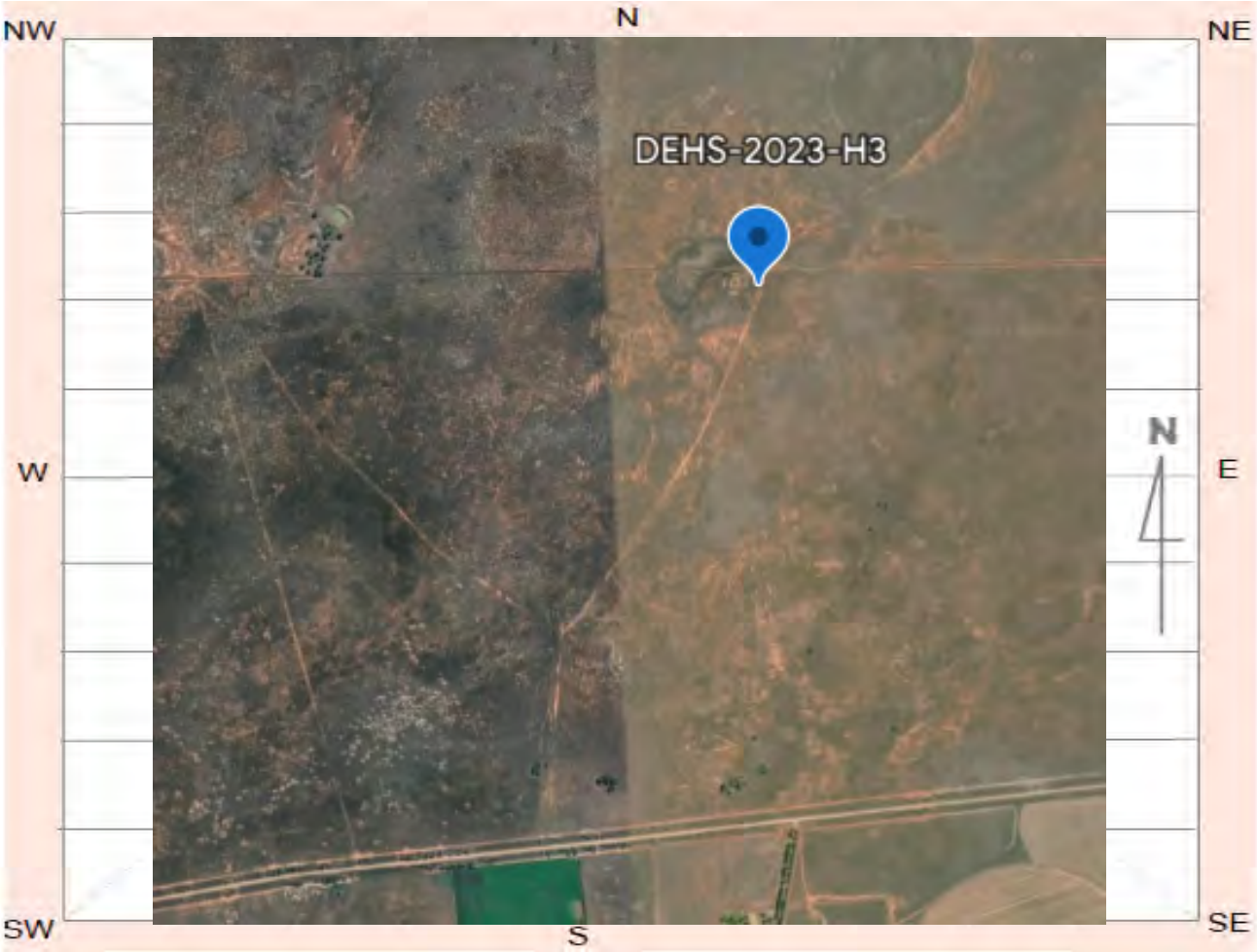
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 63 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Vehicle damage

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Hearth	1	1	1				

Feature condition: Vehicle damage

Description:

Buried hearth. Low density of clay ball heat retainers. Measuring 0.4 x 0.3 metres. Located on vehicle track.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
5.							

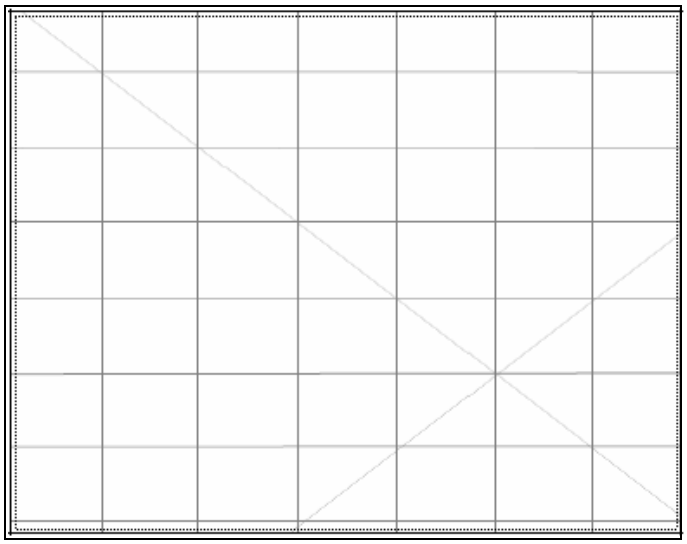
Feature condition:

Description:

Site photographs

Description: Buried (Damaged) hearth.

Description: West facing.



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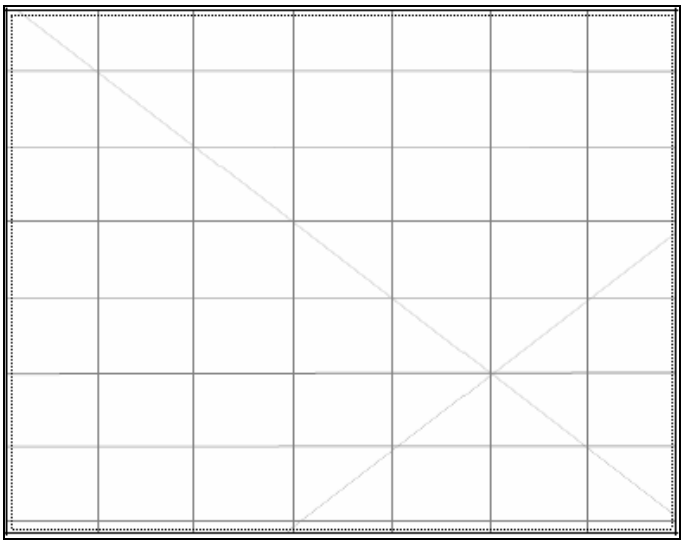


Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-H4

Easting: 384563 **Northing:** 6119020 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 63 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Vehicle damage

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Hearth	1	2	1				

Feature condition: Vehicle damage

Description:

Scattered hearth, no charcoal identified. Low density of clay ball heat retainers, no clear orientation. Measuring 1.3 x 0.5 metres. Located on vehicle track.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

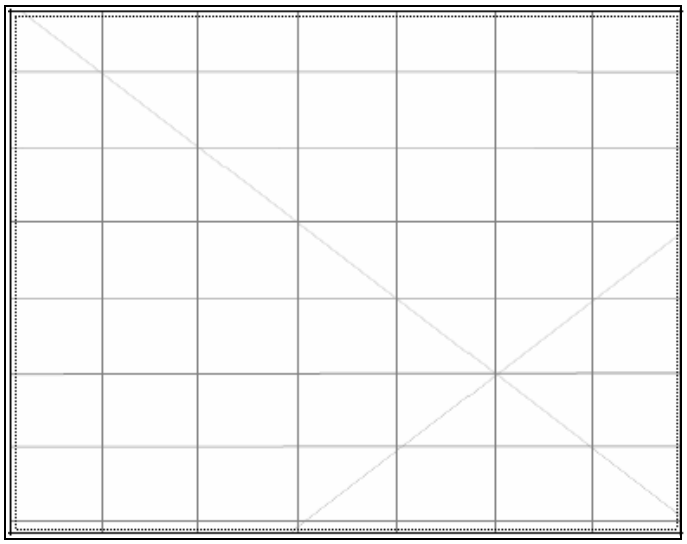
Feature condition:

Description:

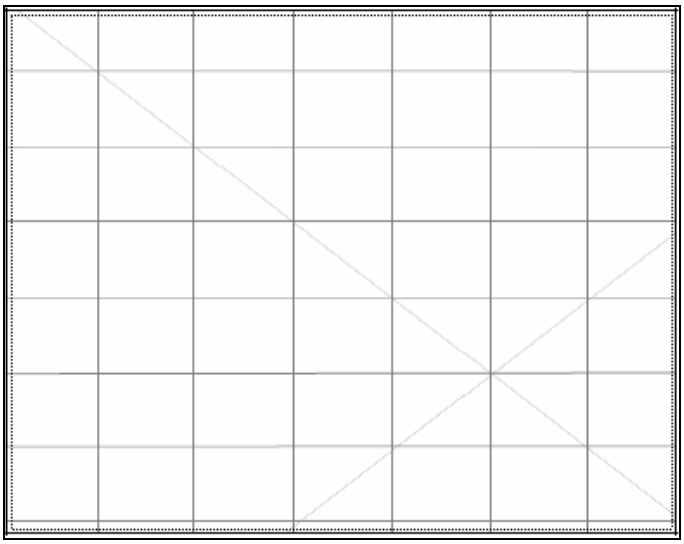
Site photographs

Description: Hearth Width.

Description: South facing.



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: 55-1-0088 **Date recorded:** 03-10-2023

Site Location Information

Site name: DEHS-2023-H6

Easting: 384908 **Northing:** 6118565 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: **Land Use:**

Land Form Unit: **Vegetation:**

Distance to Water (m): **Primary Report:**

How to get to the site:

Other site information: -

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Hearth	1	0.8	0.6				

Feature condition: Disturbed

Description:

Highly tentative buried hearth located on animal track, measuring 0.8 x 0.6 m. Low density of clay ball heat retainers, no clear orientation. No charcoal identified.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

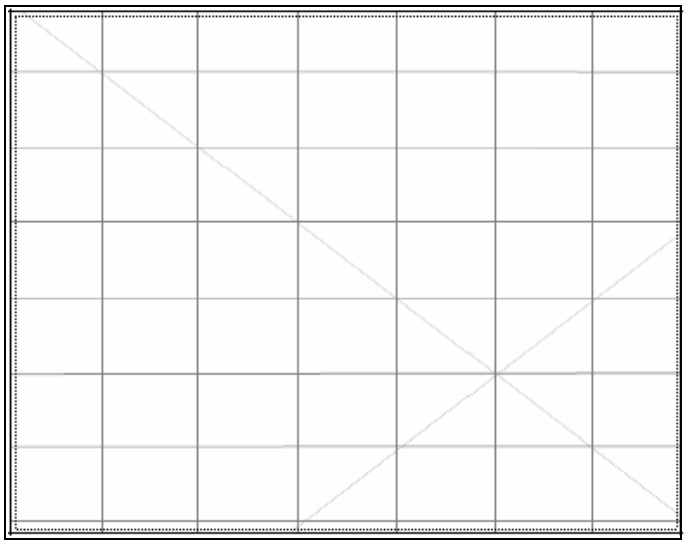
Feature condition:

Description:

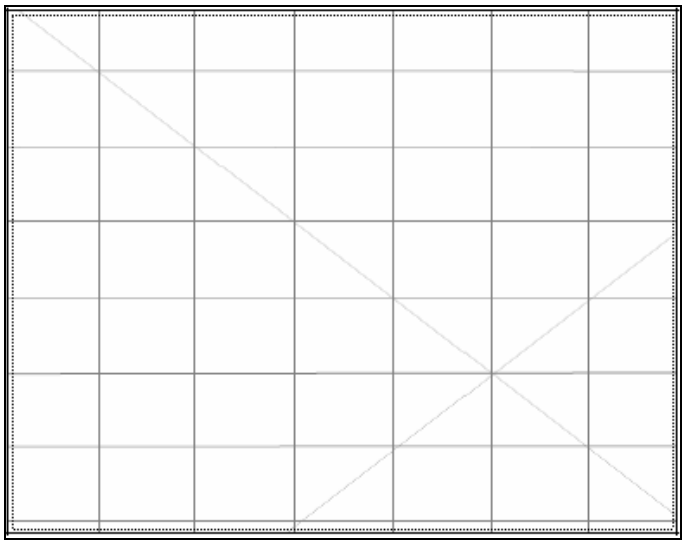
Site photographs

Description: Tentative Hearth

Description: North Facing



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

-

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-H7

Easting: 385261 **Northing:** 6118476 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

Land Form Unit: Plain **Vegetation:** Grasslands

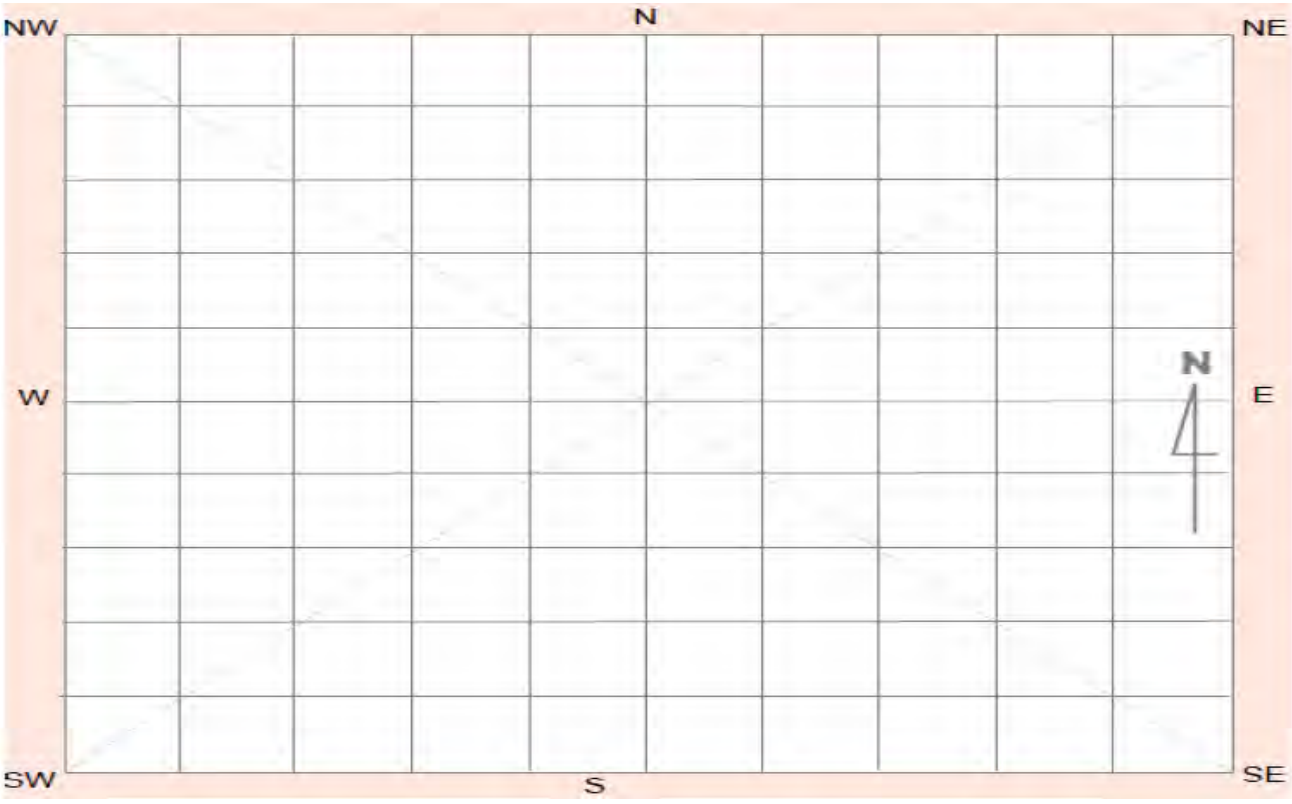
Distance to Water (m): 10 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map

Site plan



Site contents information

open/closed site: Open **Site condition:** Weathering

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1.	Hearth	1	0.5	0.5				

Feature condition: Weathering

Description:

Scatted/Buried hearth, poor condition. One distinct in situ feature measuring 0.5 x 0.5 metres. Several clay ball heat retainers found in proximity. No orientation or charcoal identified.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.								

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: Scattered clay balls

Description: In situ feature.

Description: North facing

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-HAS1

Easting: 386986 **Northing:** 6117838 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

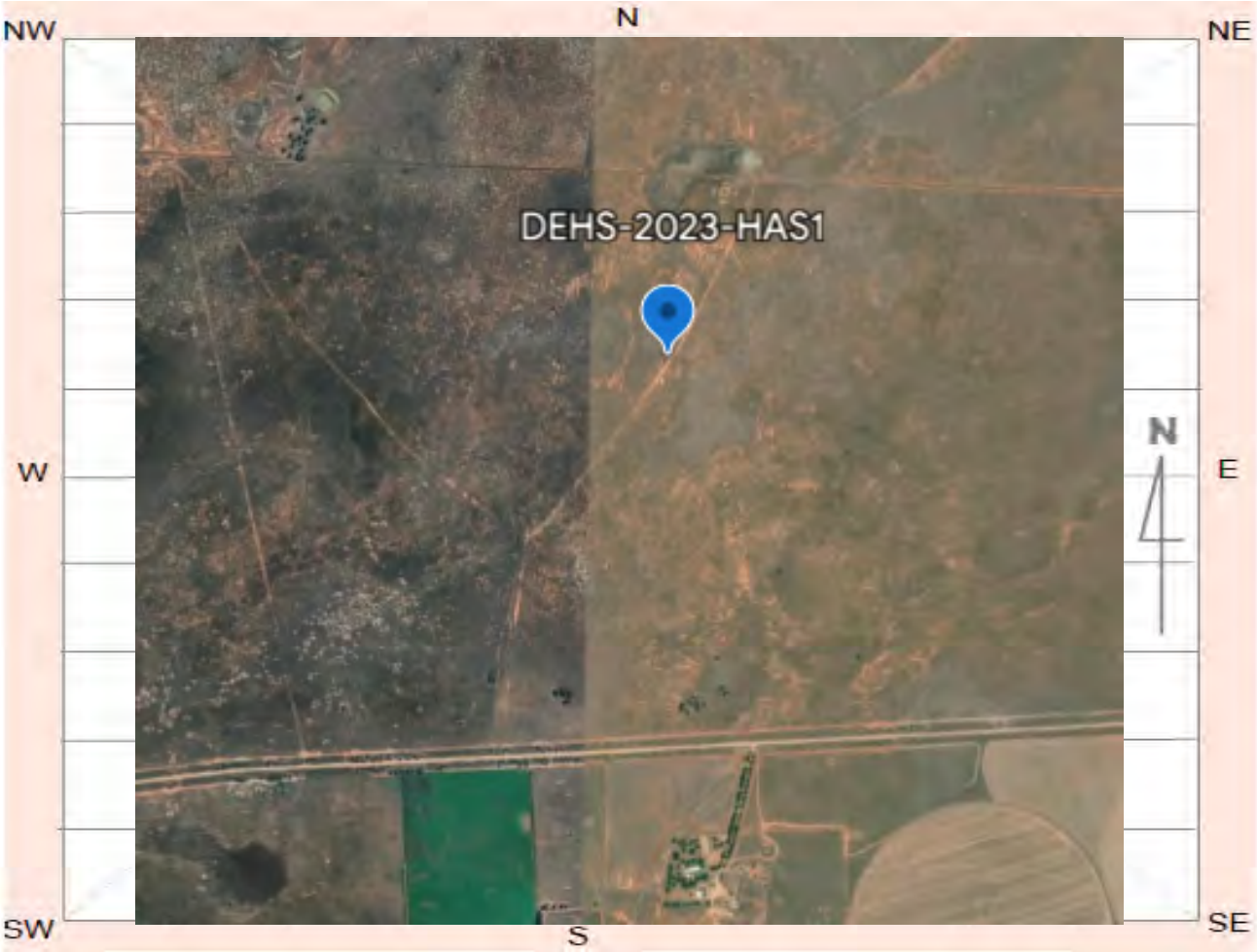
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 370 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Weathering

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	5	70	10				

Feature condition: Erosion

Description:

Yellow silcrete backed flake with cortex, blue silcrete flake, blue chert flake piece. Two quartz water rolled flakes. All on access track, erosion scald in proximity to giant billabong/gilgai.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2. Hearth	1	0.2	0.2				

Feature condition: Poor

Description:

Tentative buried hearth, measuring 0.2 x 0.2 metres. No clear orientation. No charcoal identified. Low density of clay ball heat retainers.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

Description:

Site photographs

Description: East facing.

Description: Dorsal.

Description: Buried hearth

Description: Ventral.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title ☐ **Surname** ☐ **First name** ☐

Organisation: ☐

Address: ☐

Phone: ☐ **E-mail:** ☐

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-HAS2

Easting: 385726 **Northing:** 6118541 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Plain **Vegetation:** Isolated clumps of trees

Distance to Water (m): 480 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information: Located on the eastern edge of a gilgai and drainage depression, start of a marshy wetland. Lots of historic rubbish, metal, and glass in area, which is used for a tip and slash pile burning area.

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	3	50	30				

Feature condition: Good

Description:

Polished sandstone grinding plate fragment with polish on both sides, grooves thumb sized. Potential glass artefacts, thick green bottle base pieces with potential negative scaring. Flaked pieces measuring 5 x 5 cm and 7 x 5 cm.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2. Hearth	2	1	1				

Feature condition: Good

Description:

Potential in situ hearth/oven mound - symmetrical bluey grey burnt clay nodules buried in a raised mound measuring 3 m x 2 m. An eroded hearth base measuring 60 cm x 60 cm located 35 m west.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

Description:

Site photographs

Description: Hearth A.

Description: Hearth B. View to West.

Description: Grinding plate.

Description: Potential flaked glass.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title ☐ **Surname** ☐ **First name** ☐

Organisation: ☐

Address: ☐

Phone: ☐ **E-mail:** ☐

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-HAS3

Easting: 384517 **Northing:** 6118588 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

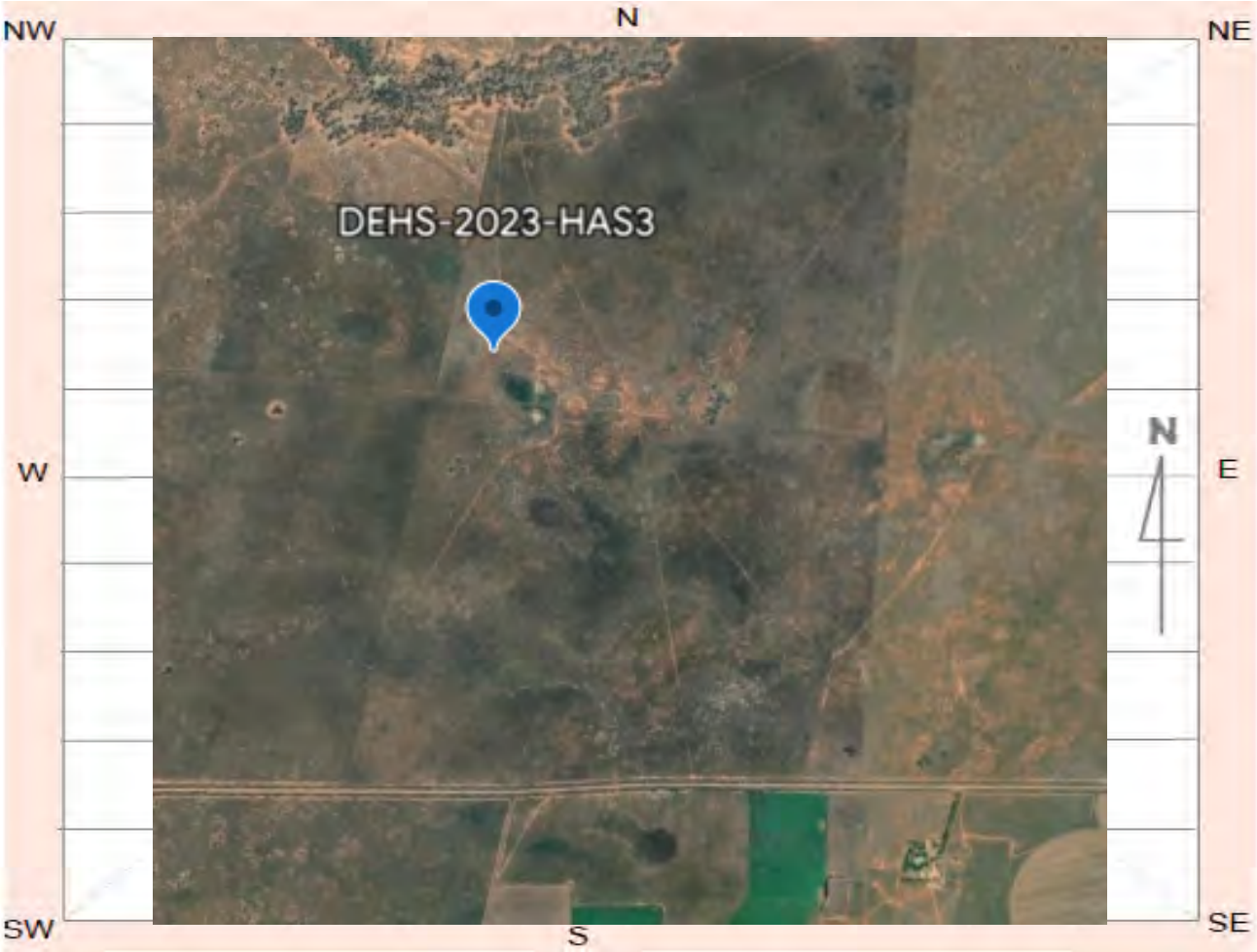
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 150 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information: Located on eastern side of gilgai depression and drainage depression. Lots of disturbance in area from dam excavation, abandoned water tanks, and metal debris.

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Weathering

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1.	Artefact	3	150	20				

Feature condition: Good

Description:

Three stone artefacts, one complete silcrete flake with 5% cortex, one white quartzite flake with three negative scars, one quartz angular fragment.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.	Hearth	1	1	0.50				

Feature condition: Poor

Description:

One potential eroded hearth, measuring 1 m x 50 cm wide and >10 clay balls, possible clay ball heat retainers, scattered in an area of 50 m2.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.								

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

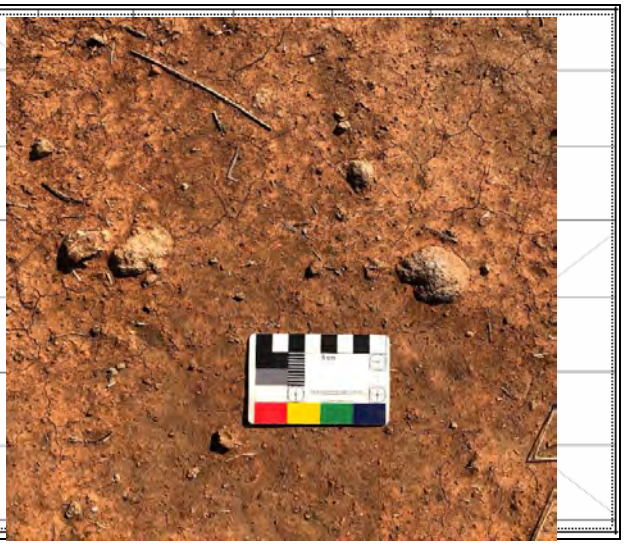
Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs



Description: Eroded hearth.

Description: View North.

Description: Silcrete, quartz flake.

Description: Quartzite flake.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title ☐ **Surname** ☐ **First name** ☐

Organisation: ☐

Address: ☐

Phone: ☐ **E-mail:** ☐

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHs-2023-HAS4

Easting: 386001 **Northing:** 6117645 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

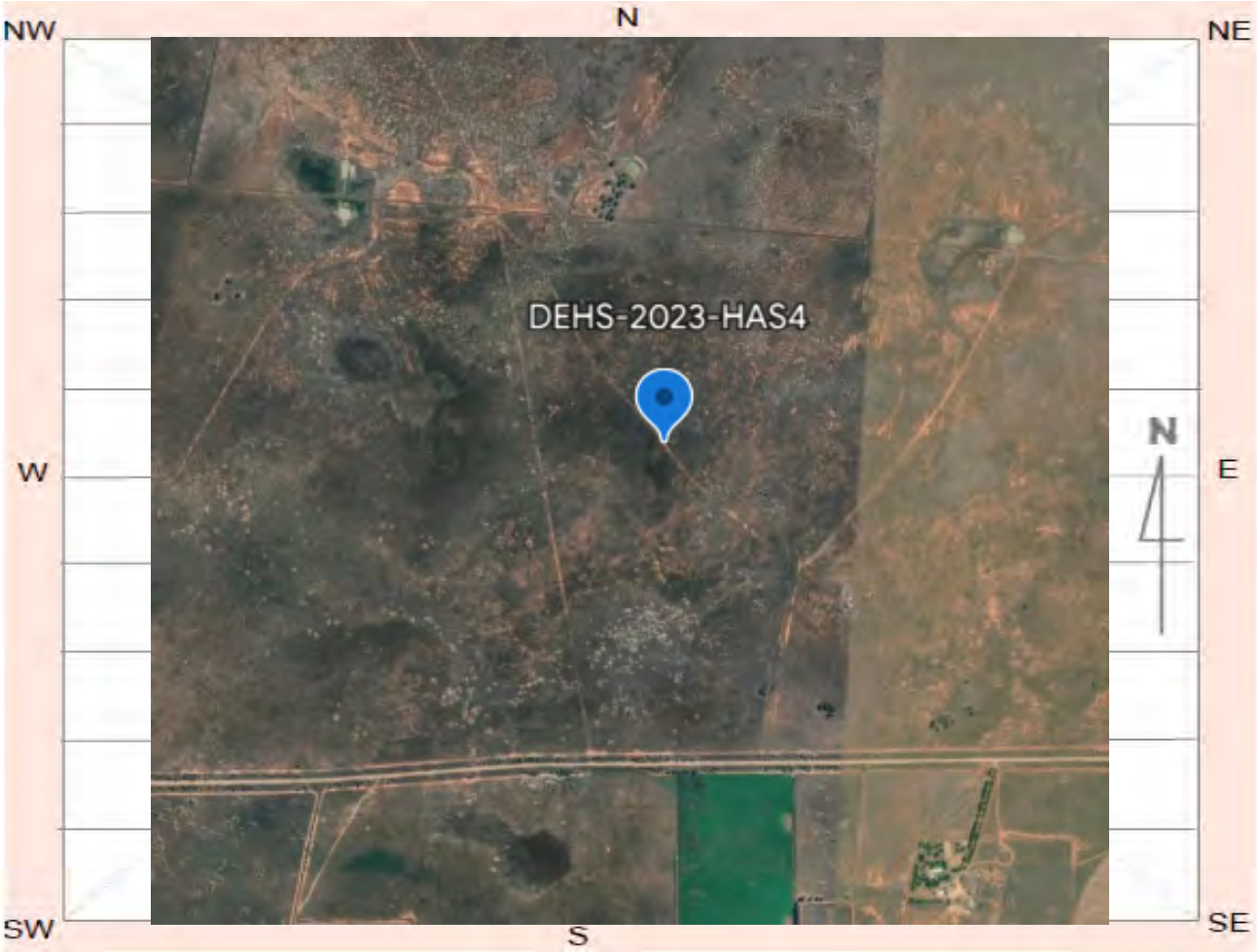
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 600 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Weathering

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1.	Artefact	7	30	30				

Feature condition: Erosion

Description:

Several stone flakes of silcrete and quartz. One quartz flake with a snapped distal end, one tiny low quality quartz flake, and one possible sandstone grinding topstone/axe blank.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.	Hearth	1	1	1				

Feature condition: Poor

Description:

Potential eroded hearth, partially obscured by ants nest. No heat retainers identifiable, no distinct orientation, no identifiable charcoal. Measuring roughly 1 x 1 meter.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.								

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: Sandstone grinding implement/axe blank.

Description: Eroded hearth.

Description: Flake materials.

Description: View west.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title	**Surname**	**First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: 55-1-0102 **Date recorded:** 03-10-2023

Site Location Information

Site name: DEHS-2023-HIF1

Easting: 384045 **Northing:** 6118714 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

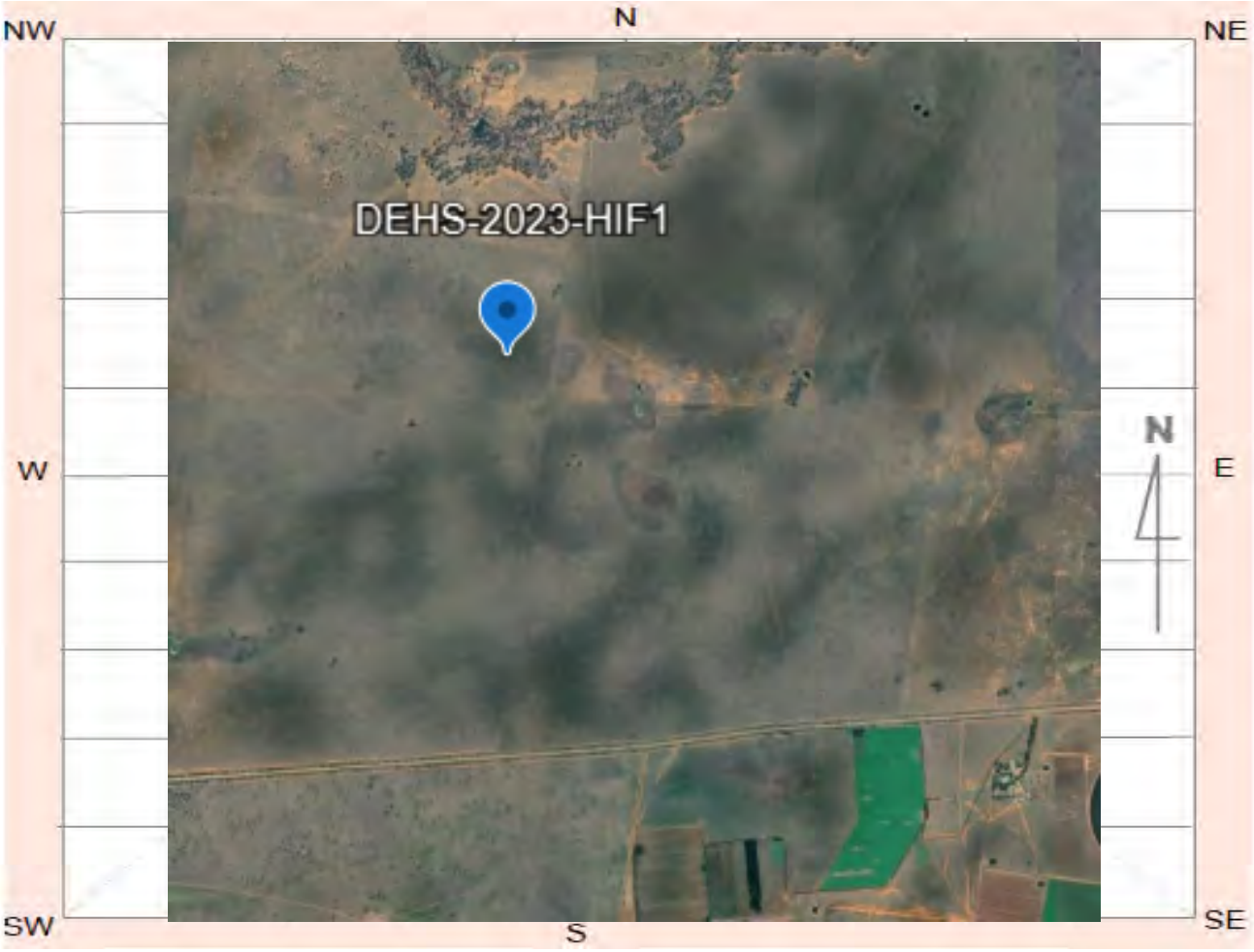
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 10 **Primary Report:** Dinawan Energy Hub Solar ACHA

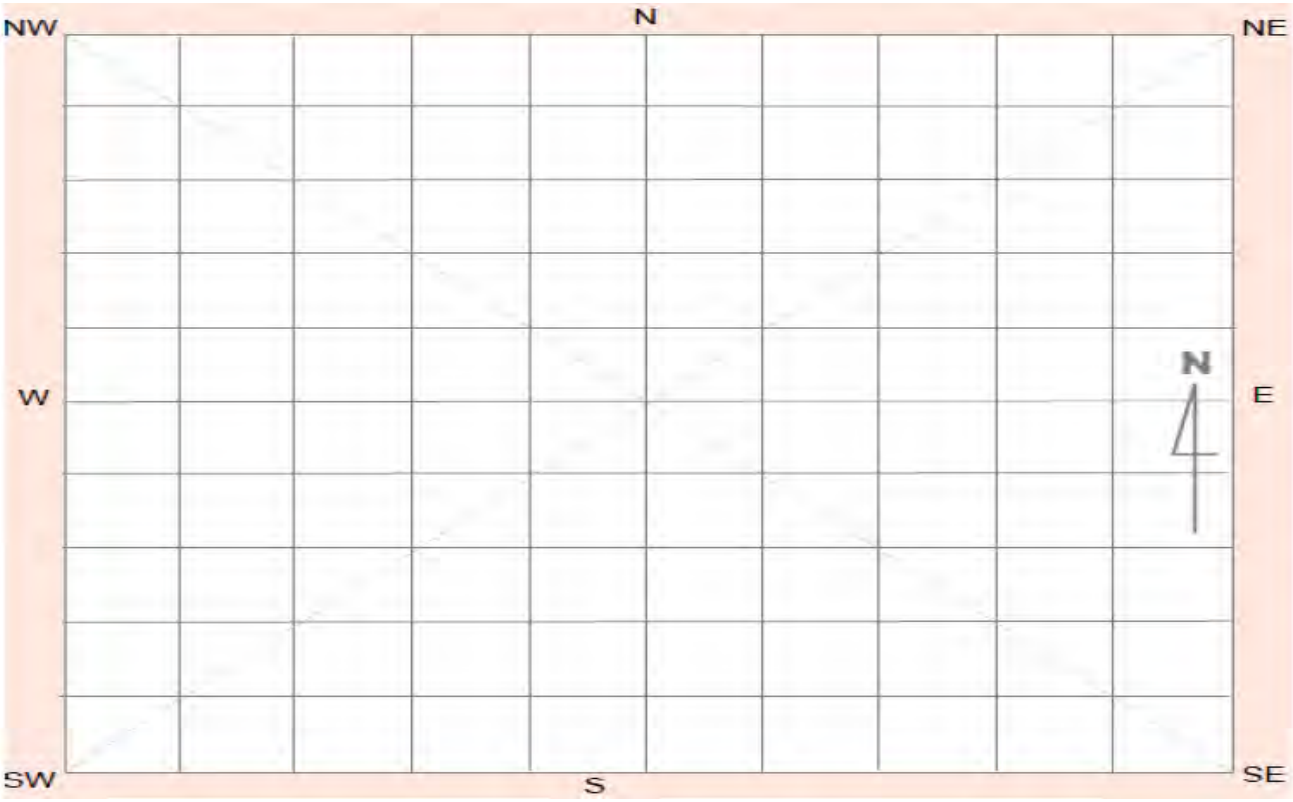
How to get to the site: Located on eastern side of gilgai depression on terminal end of drainage line. Almost no visibility. One quartz micro flake with hinge termination eroding from ants nest on erosion scald. Potential in situ hearth measuring 1.5 m x 1.5 m.

Other site information: Destroyed. Test excavation undertaken in locality.

Site location map



Site plan



Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	5	5				

Feature condition: Disturbed

Description:

One quartz micro flake, hinge termination.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2. Hearth	1	1.5	1.5				

Feature condition: Disturbed

Description:

Highly eroded hearth, no imagery available.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

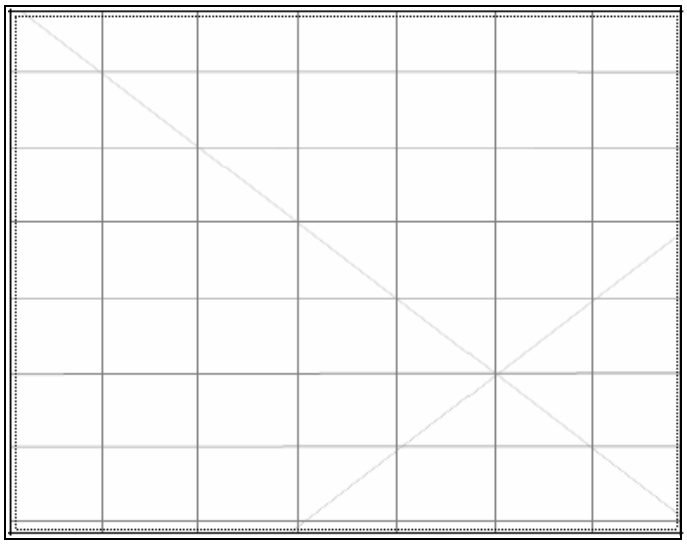
Feature condition:

Description:

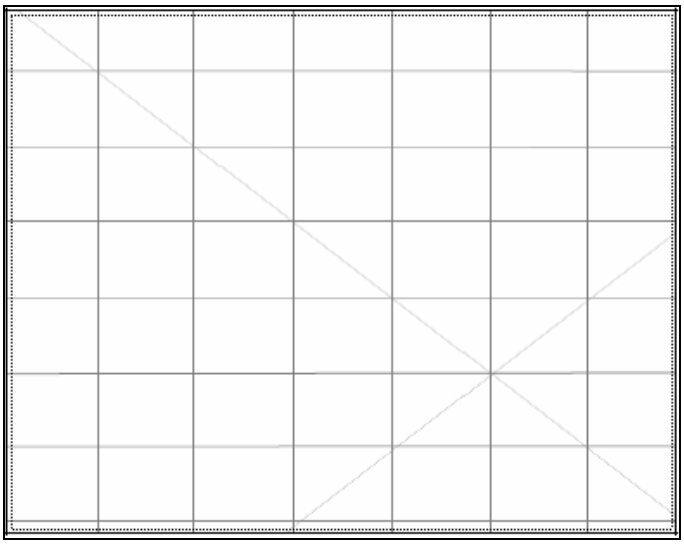
Site photographs

Description: Quartz flake.

Description: West facing. Tank Gilgai in distance.



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender | General | Location — N/A

Why is this site restricted?:

Further information contact

Title | **Surname** | **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

-

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: 55-1-0103 **Date recorded:** 03-10-2023

Site Location Information

Site name: DEHS-2023-HIF2

Easting: 385346 **Northing:** 6118404 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

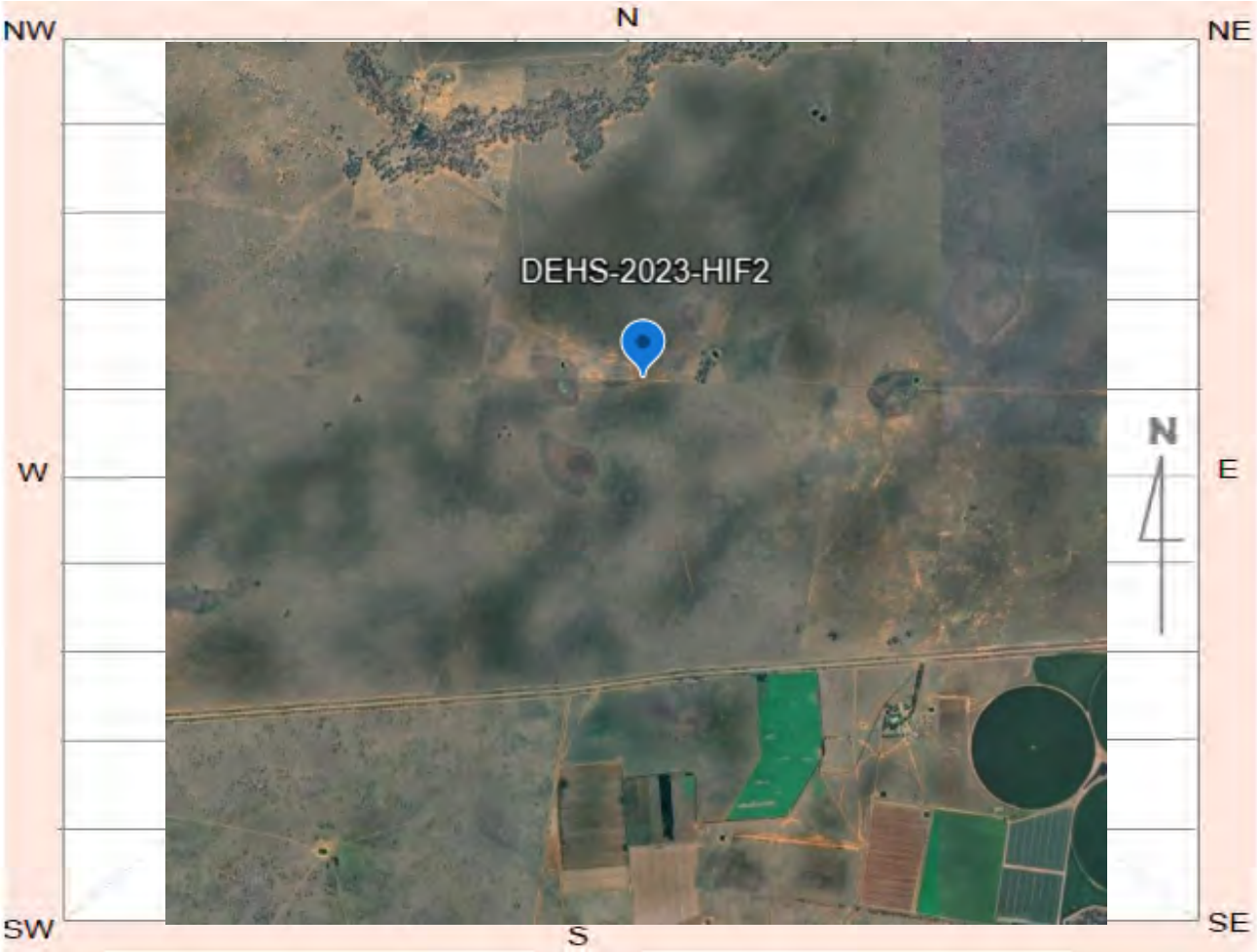
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 100 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information: Site is located approximately <30 m of irrigation canal.

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Poor

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	10	10				

Feature condition: Poor

Description:

Tentative quartz flake and multiple scattered potential heat retainers exposed on access track on eastern edge of gilgai/drainage depression.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

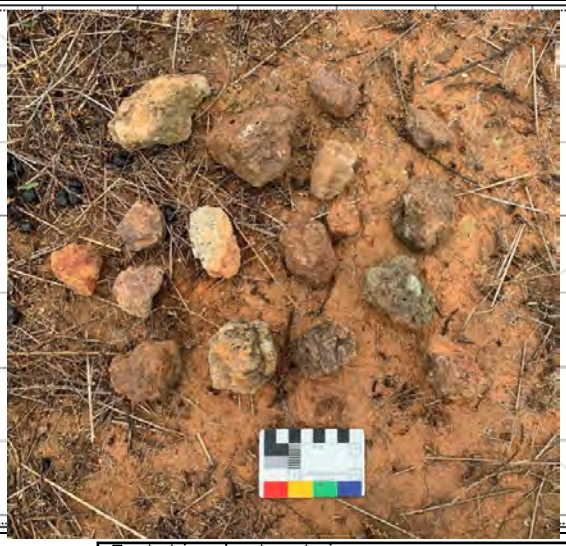
Feature condition:

Description:

Site photographs

Description: Quartz flake.

Description: East Facing.



Description: Tentative heat retainers.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender | General | Location — N/A

Why is this site restricted?:

Further information contact

Title | **Surname** | **First name**

Organisation:

Address:

Phone:

E-mail:

Site interpretation and community statement

-

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-HIF3

Easting: 387243 **Northing:** 6118461 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

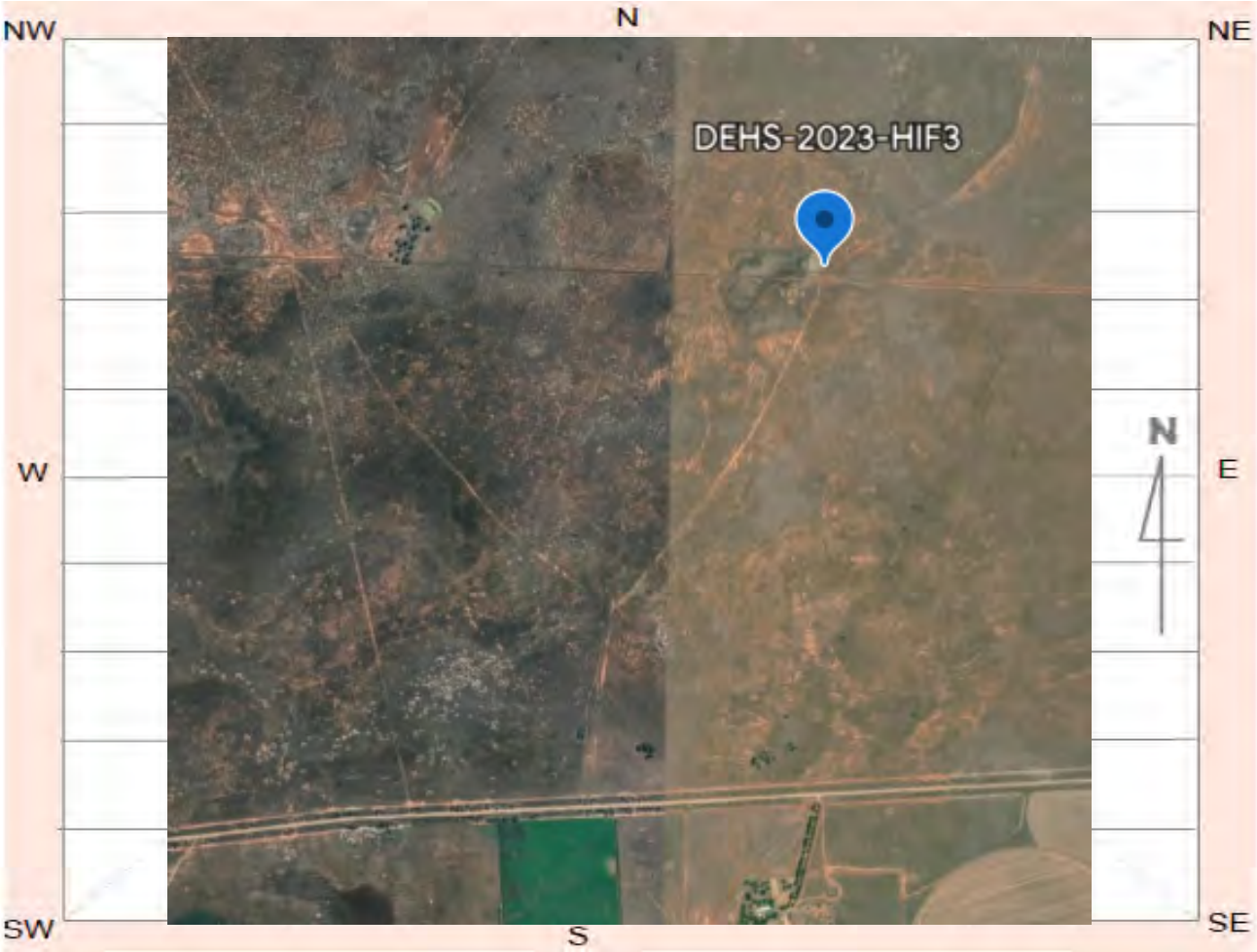
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 10 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Poor

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	1	1				

Feature condition: Poor

Description:

Low-quality quartz flake with platform and retouch located by dam, located nearby is a grey smooth heat retainer.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2. Hearth	1	1	1				

Feature condition: Poor

Description:

No hearth identified. Clay ball heat retainers located in the area.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: View North

Description: Clay ball heat retainer.

Description: Dorsal

Description: Ventral

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title	Surname	First name

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-IF1

Easting: 385085 **Northing:** 6117870 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

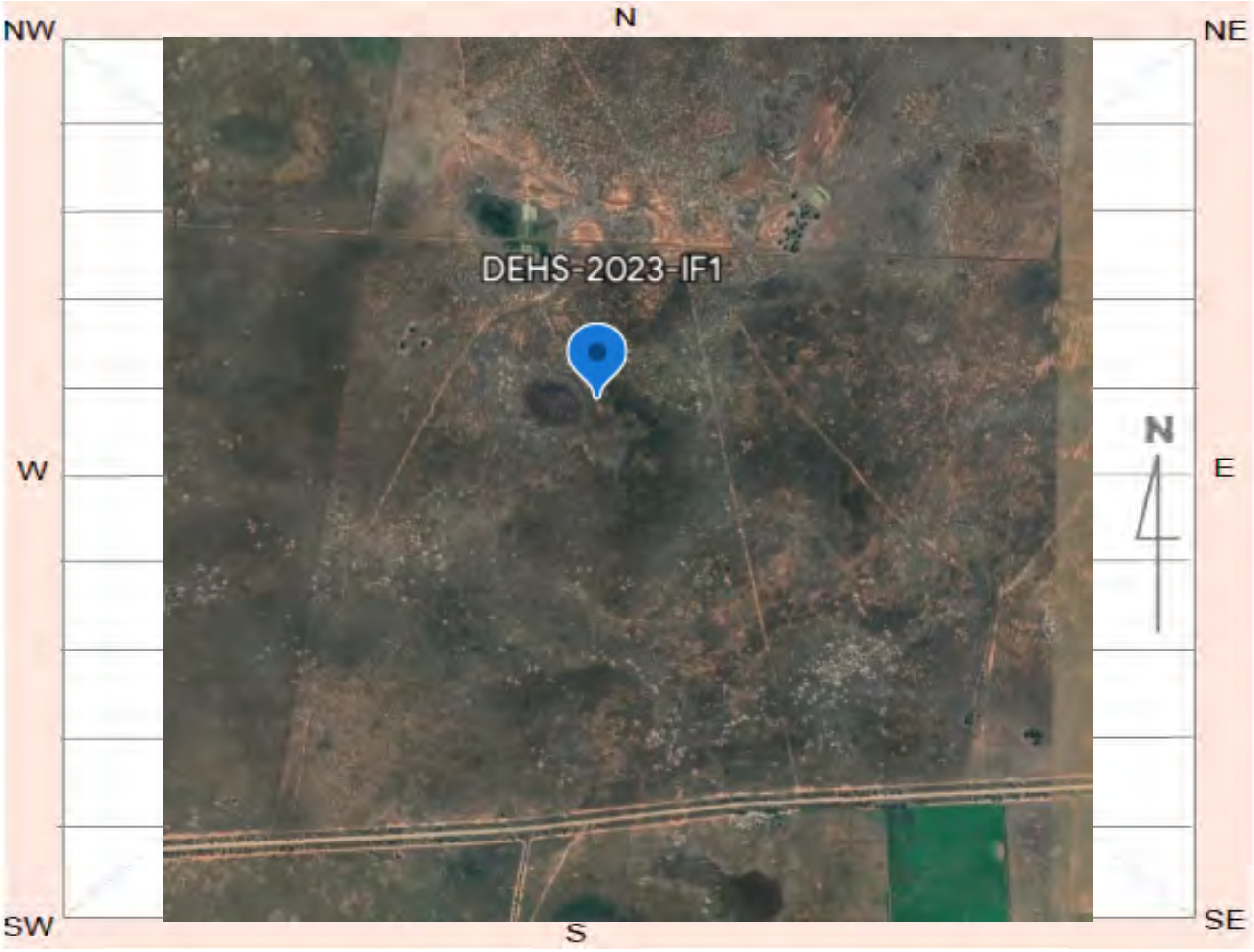
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 50 **Primary Report:** Dinawan Energy Hub Solae ACHA

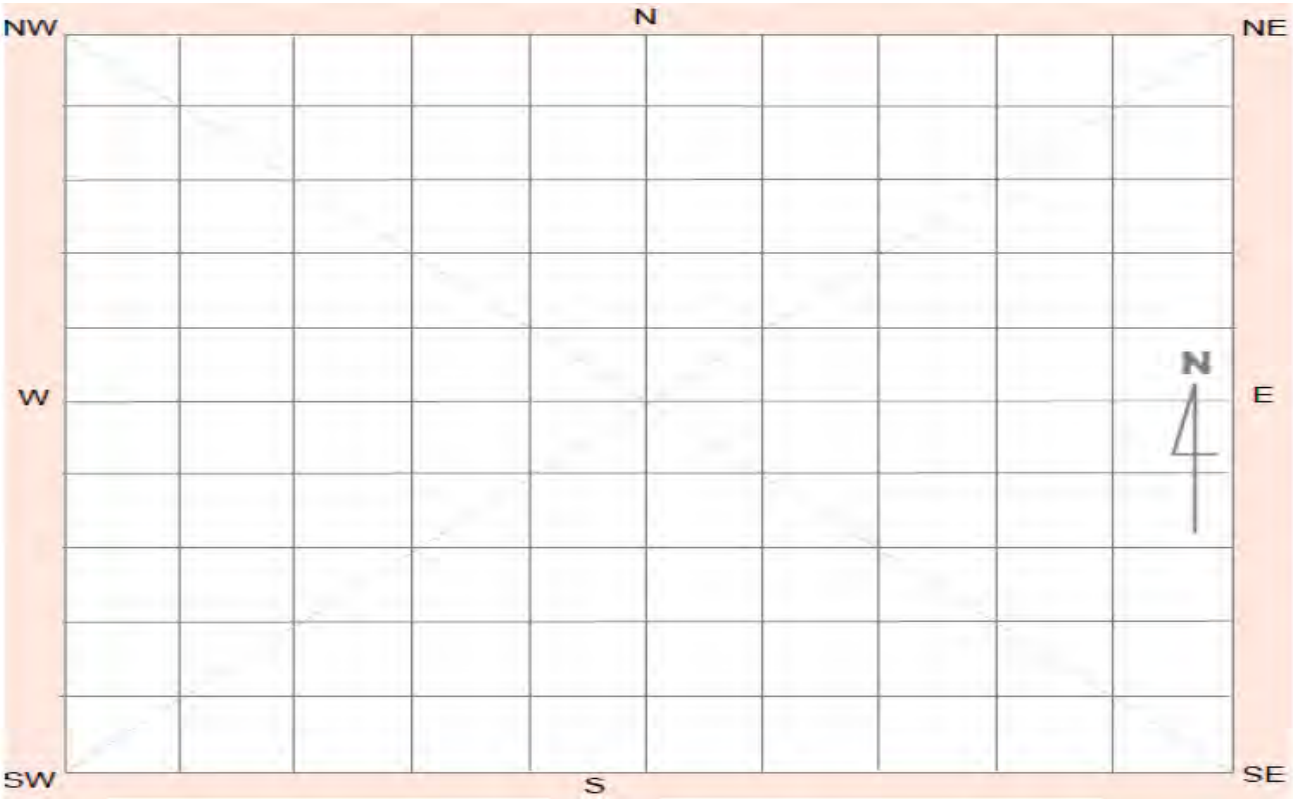
How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan



Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	1	1				

Feature condition: Good

Description:

Quartz flake located on an erosion scar eastern side of gilgai depression.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

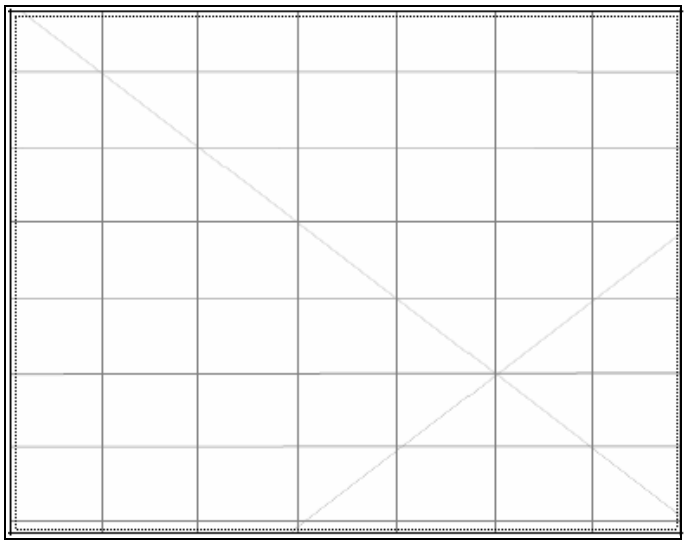
Feature condition:

Description:

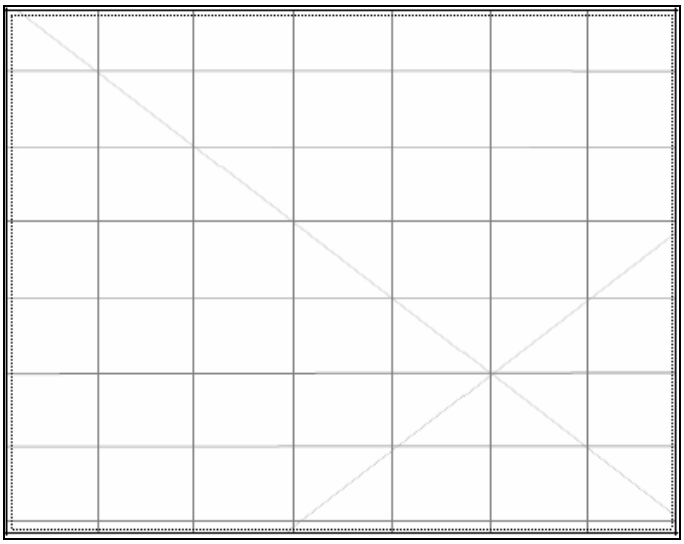
Site photographs

Description: View south.

Description: Quartz flake.



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-IF2

Easting: 384346 **Northing:** 6118404 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

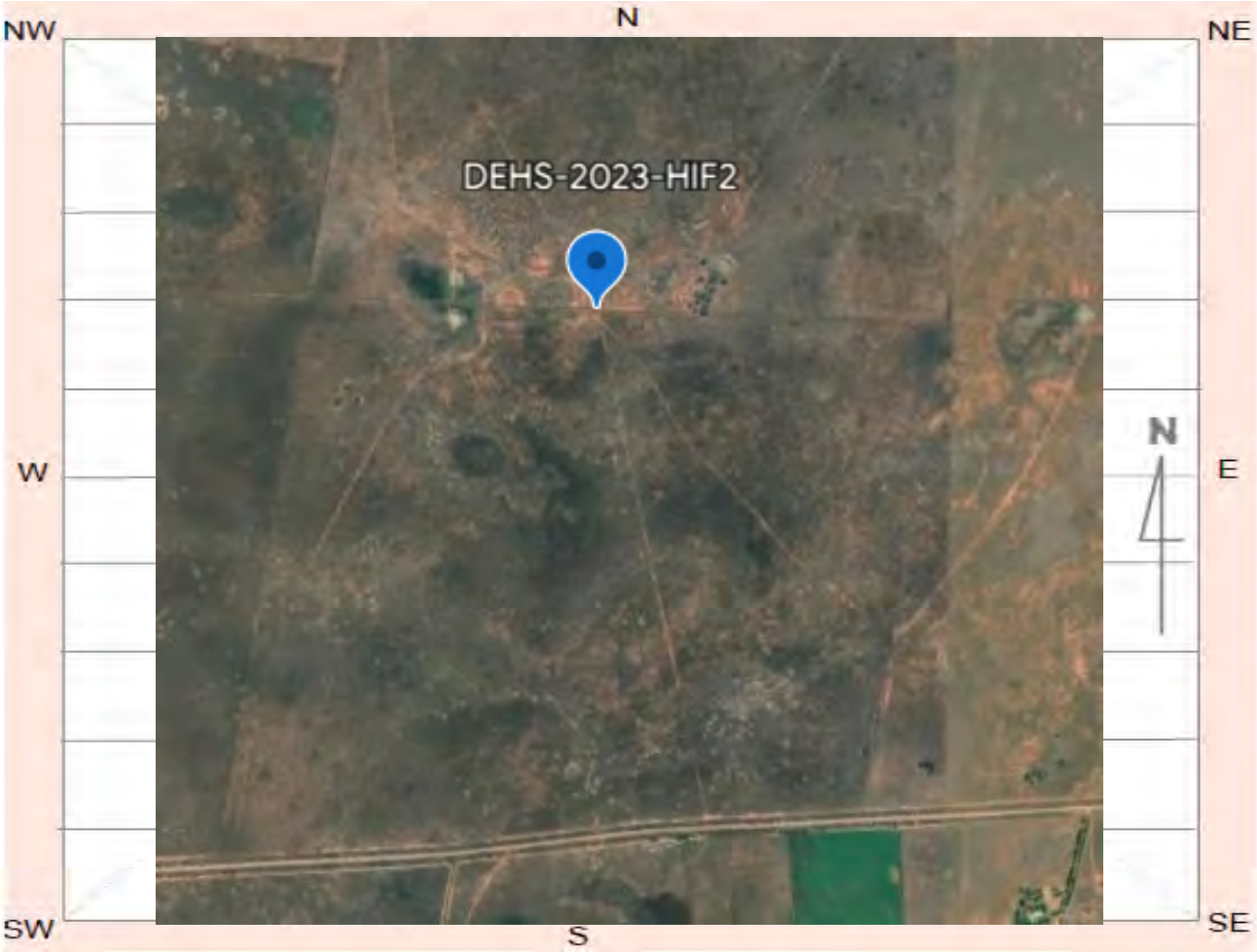
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 115 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Poor

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	1	1				

Feature condition: Good

Description:

One quartz micro flake with hinge termination eroding from ants nest on erosion scald.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2. Hearth	1	1.5	1.5				

Feature condition: Poor

Description:

Potential in situ hearth measuring 1.5 m x 1.5 m. Large density of clay ball heat retainers found within a secondary context, possibly due to laser leveling. No clear orientation, no evident charcoal.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: View East.

Description: Quartz flake.

Description: Clay ball heat retainers.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-IF3

Easting: 387327 **Northing:** 6116732 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

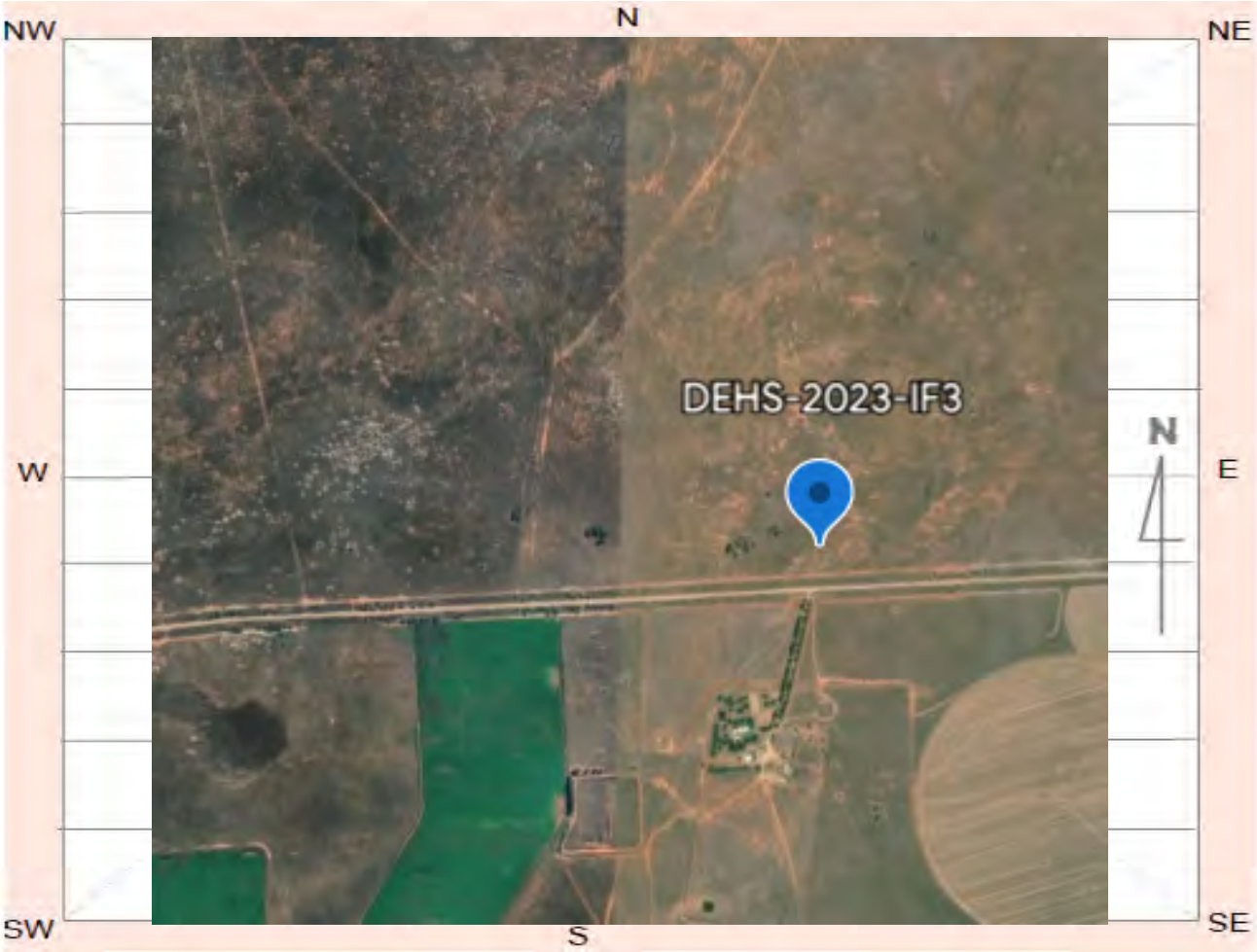
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 1519 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Erosion

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	1	1				

Feature condition: Erosion

Description:

Isolated complete quartz flake located on an erosion scar on the eastern side of a small wetland depression.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

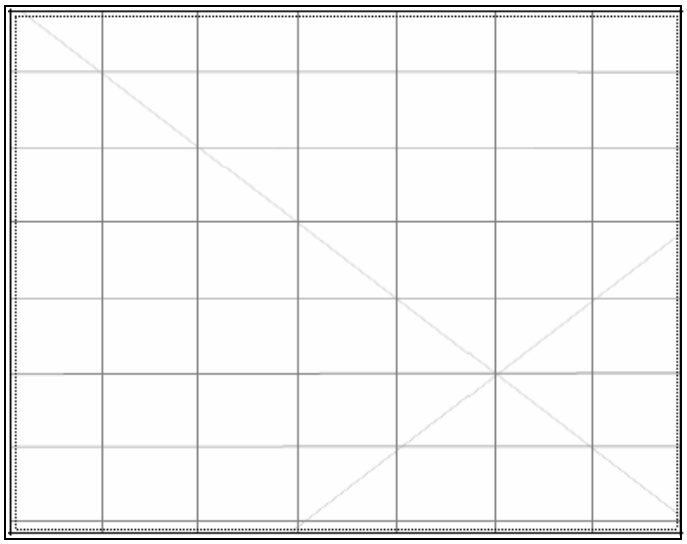
Feature condition:

Description:

Site photographs

Description: Quartz flake.

Description: View West.



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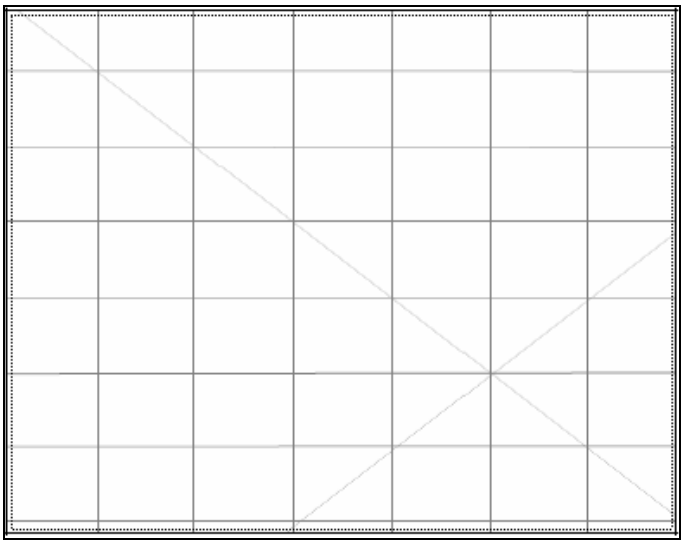


Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-IF4

Easting: 388641 **Northing:** 6118418 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

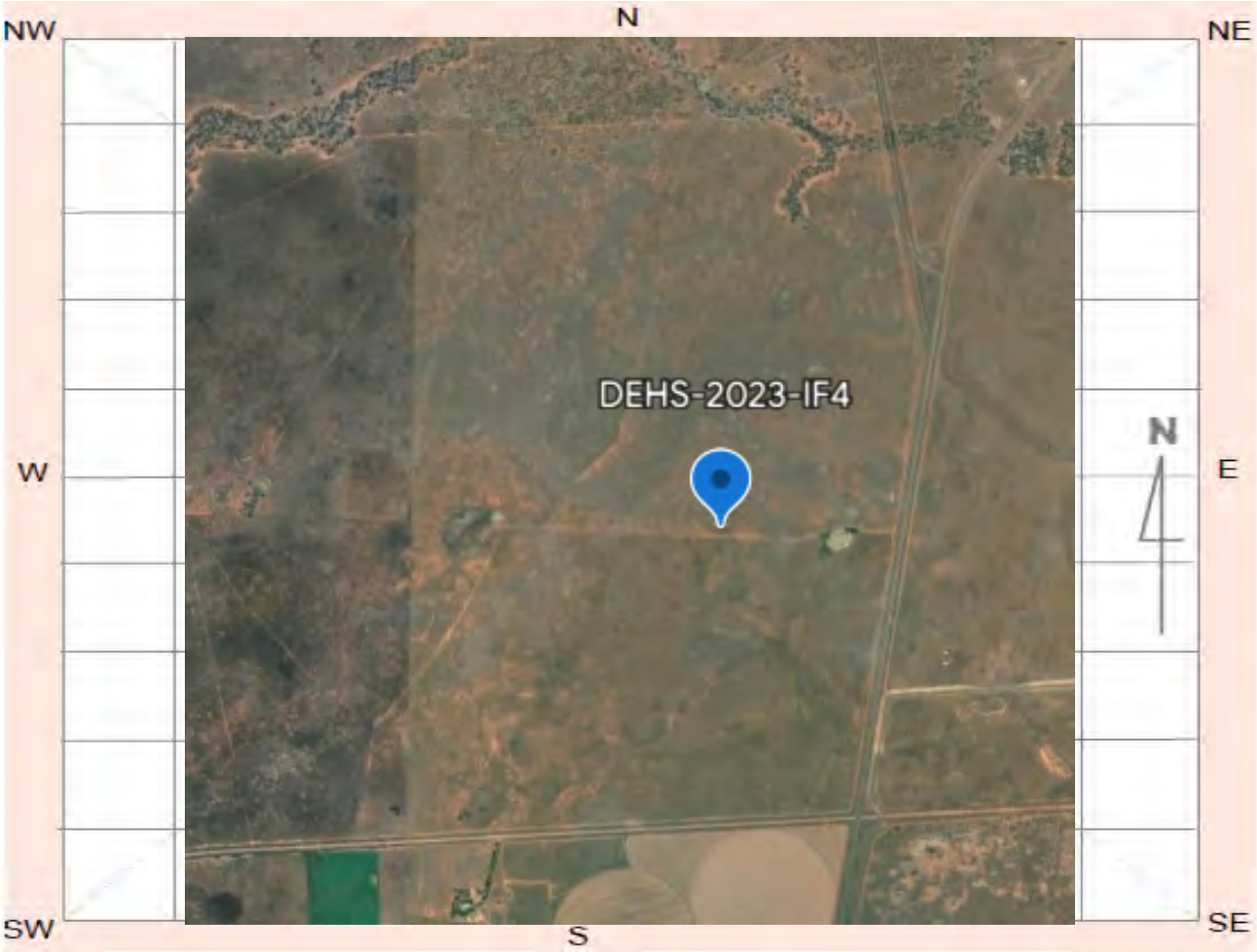
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 400 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Cadell Rd.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	1	1				

Feature condition: Disturbed

Description:

One silcrete flake exposed on irrigation channel in wetland.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

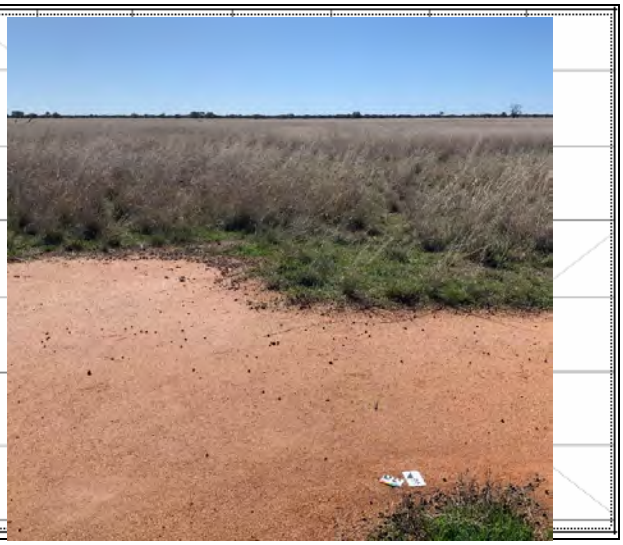
Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

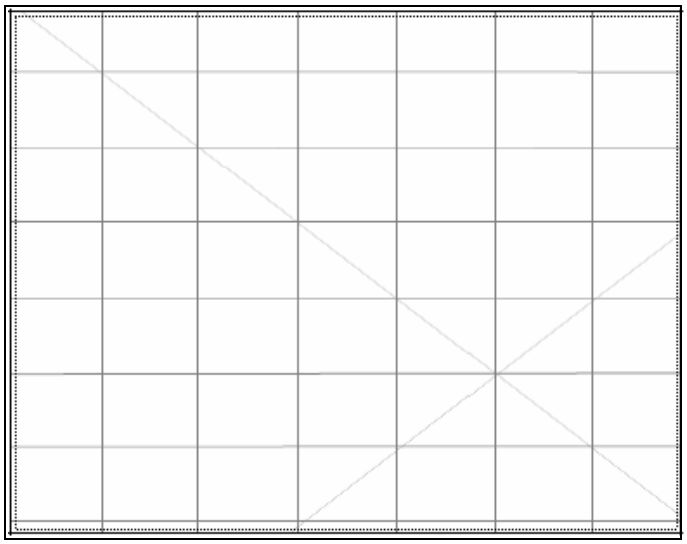
Description:

Site photographs

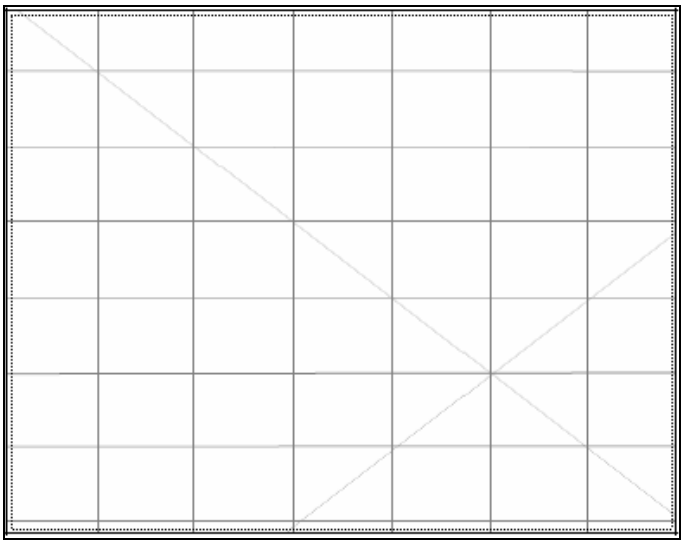


Description: View North

Description: Silcrete flake



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-IF5

Easting: 385867 **Northing:** 6118809 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 | Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

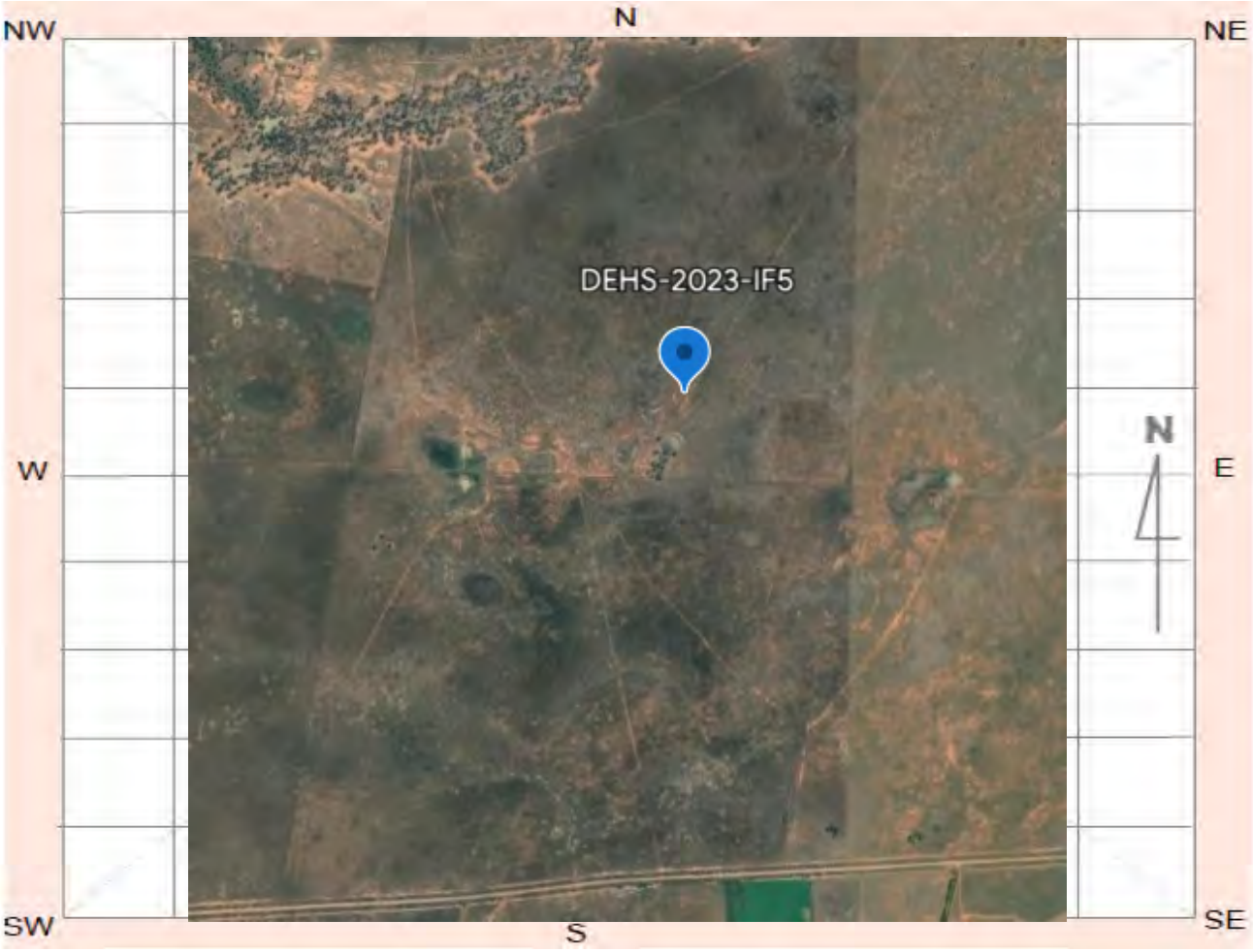
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 117 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Poor

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Artefact	1	1	1				

Feature condition: Poor

Description:

Low quality silcrete flake located in excavated irrigation trench on the eastern edge of a gilgai/drainage line depression and west of a floodplain. Very disturbed area, low visibility (10%).

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: View West.

Description: Ventral

Description: Dorsal.

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-IF6

Easting: 386365 **Northing:** 6117349 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

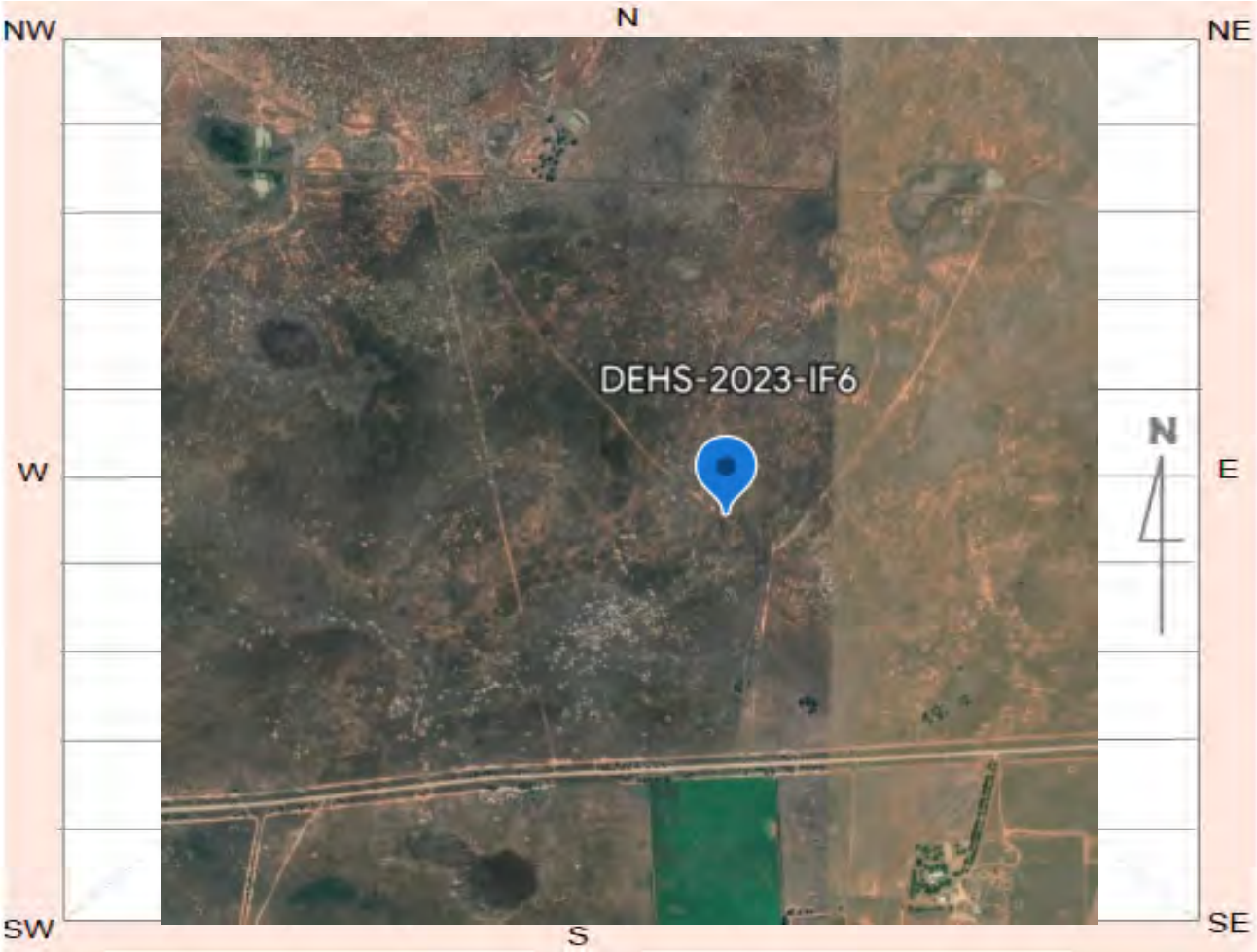
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 1060 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane.

Other site information:

Site location map



Site plan

Site contents information

open/closed site: Open **Site condition:** Vehicle damage

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1. Artefact	1	1	1				

Feature condition: Vehicle damage

Description:

Small low-quality quartz flake located the eastern side of a gilgai depression, exposed on an access track.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

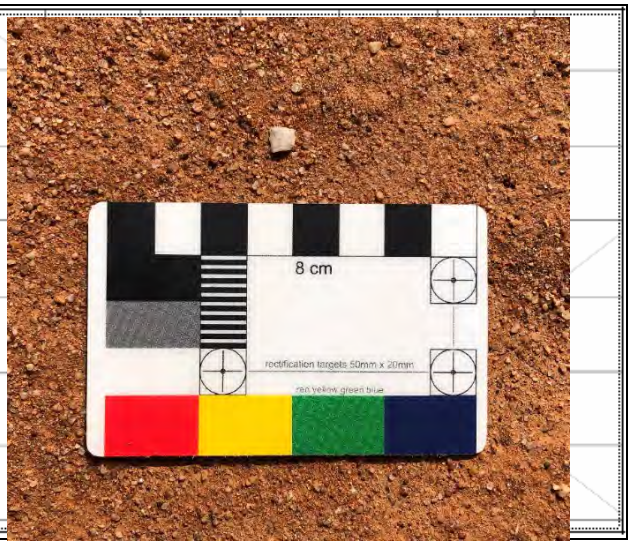
Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

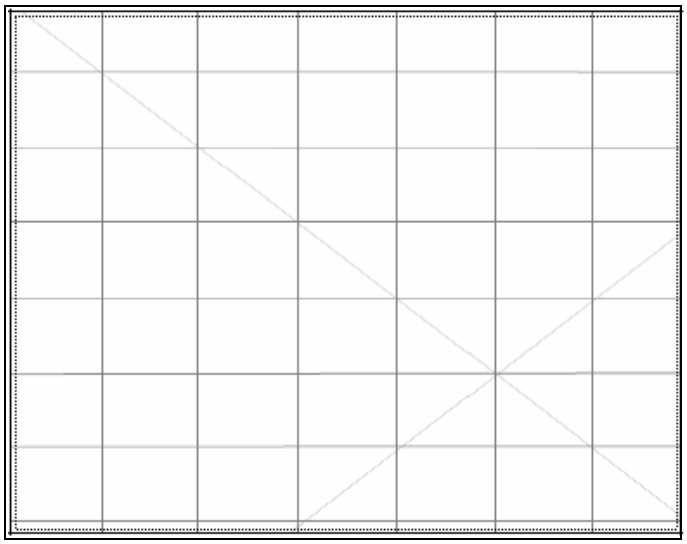
Description:

Site photographs

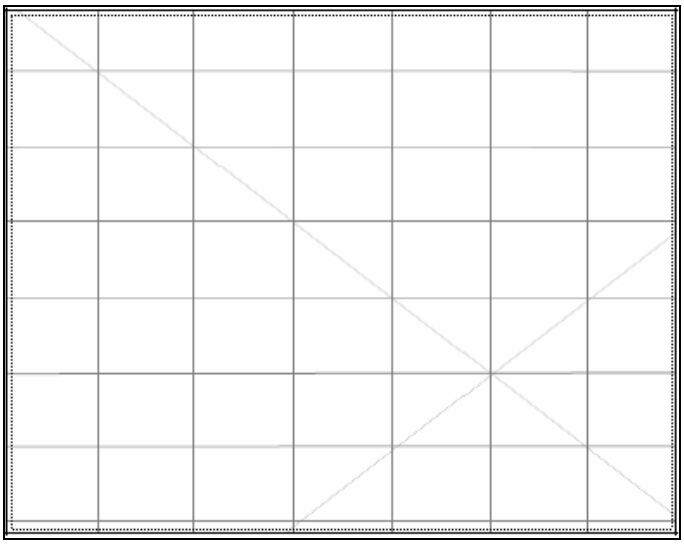


Description: Quartz flake.

Description: View North.



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-ST1

Easting: 394006 **Northing:** 6118538 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Plain **Vegetation:** Isolated clumps of trees

Distance to Water (m): 1120 **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Bundure Rd.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1. Modified Tree	1	160	40	8	10	Elongated	Other Eucalypt

Feature condition: Good

Description:

Potential scar tree. Grey box alive and standing. West facing scar 160 cm x 40 cm x 8 cm deep, 55 cm off the ground. Outside development footprint. No evident axe marks.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
5.							

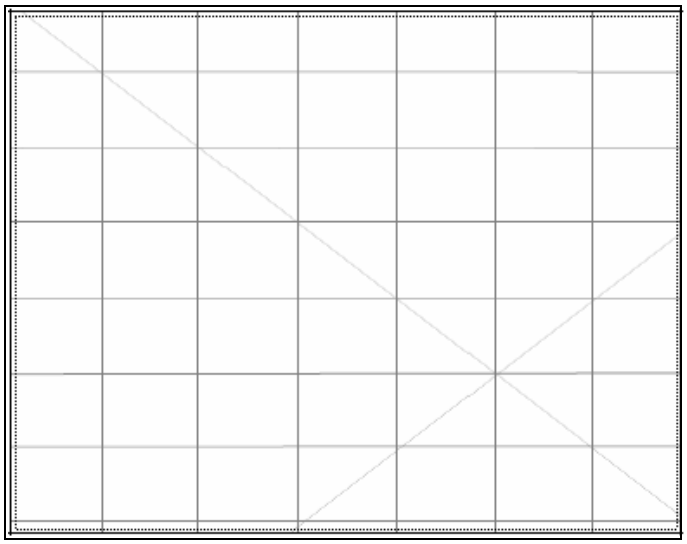
Feature condition:

Description:

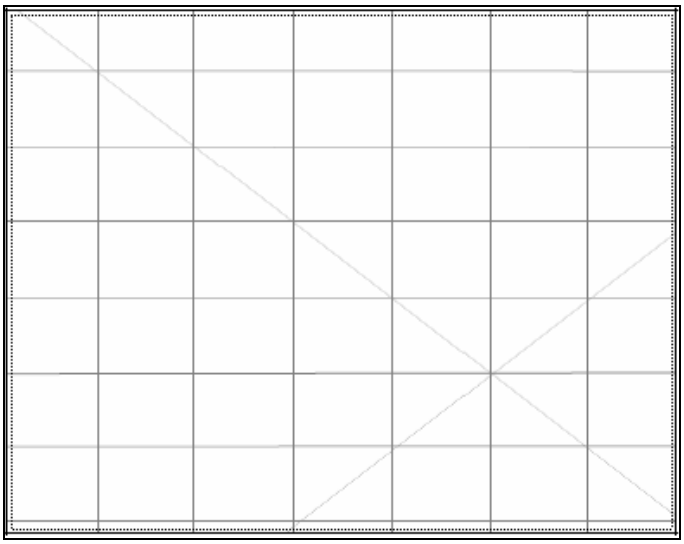
Site photographs

Description: View East

Description: CMT



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-ST2

Easting: 394026 **Northing:** 6118536 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

Land Form Unit: Plain **Vegetation:** Isolated clumps of trees

Distance to Water (m): 1173 **Primary Report:** Dinawan

How to get to the site: Access site via Bundure Rd.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1. Modified Tree	1	143	27	14	10	Elongated	Other Eucalypt

Feature condition: Good

Description:

Potential scar tree. Grey box alive and standing. West facing scar 143 cm x 27 cm x 14 cm deep, 25 cm off ground. Outside development footprint. No evident axe marks.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
5.							

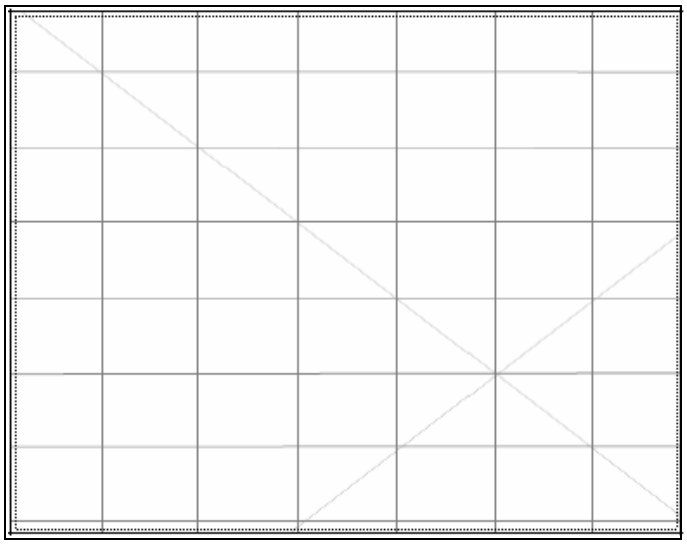
Feature condition:

Description:

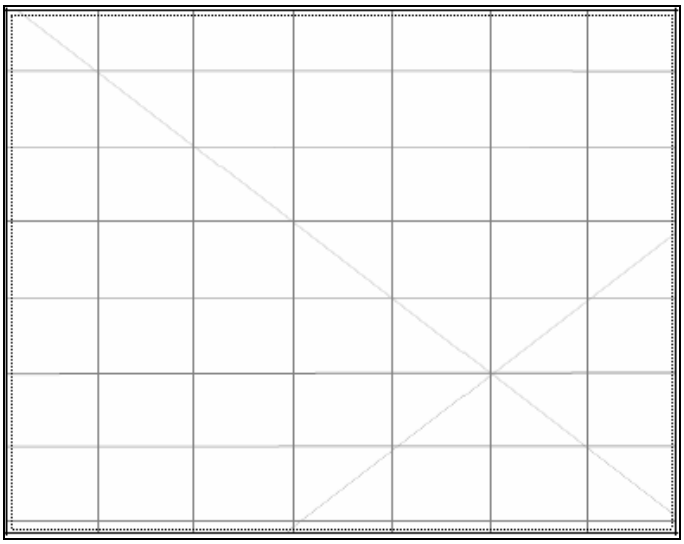
Site photographs

Description: View East.

Description: CMT



Description:



Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-ST3

Easting: 384518 **Northing:** 6120165 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

Land Form Unit: Stream Bank **Vegetation:** Open Woodland

Distance to Water (m): **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Liddles Lane or Cadell Rd.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1. Modified Tree	2	110	22	14	80	Elongated	Other Eucalypt

Feature condition: Good

Description:

Potential scar tree. Identified by Roley Williams as natural on 8 May 2023. Noted as cultural by Mark Saddler and Roland Atkinson on 14 May 2023. Tree is grey box, alive, standing, beside access track. Two scars. First scar south-west facing 110 cm x 22 cm x 14 cm deep, 35 cm off ground. Second scar west facing, 90 cm x 16 cm x 17 cm deep, 25 cm off ground.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs

Description: View north

Description: CMT

Description: View south east

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-ST4

Easting: 383641 **Northing:** 6120269 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 | Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

Land Form Unit: Stream Bank **Vegetation:** Open Woodland

Distance to Water (m): **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Cadell Rd or Liddles Lane.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Poor

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1.	Modified Tree	1	0	0	0	0	Other	Other Eucalypt

Feature condition: Poor

Description:

Potential scar tree. No information recorded except location. Assumed to be grey box, alive and standing. Outside development footprint.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.								

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.							

Feature condition:

Description:

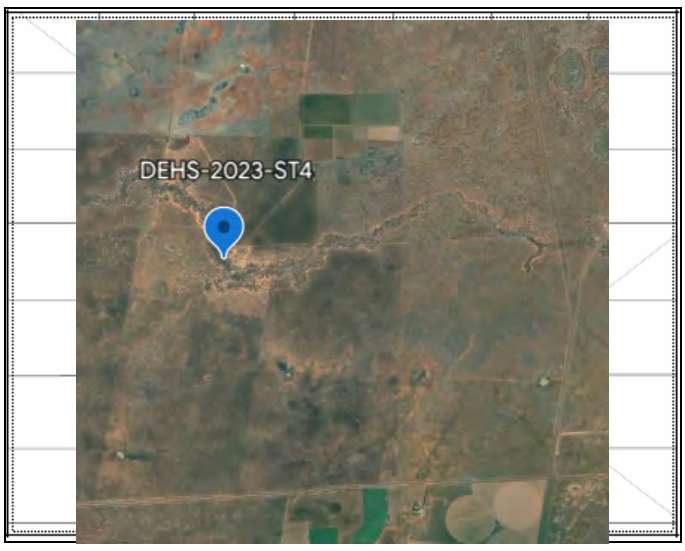
Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.							

Feature condition:

Description:

Site photographs



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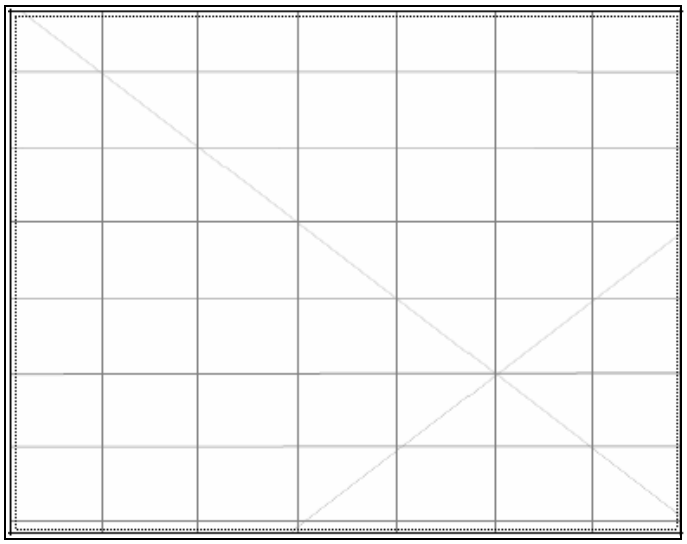

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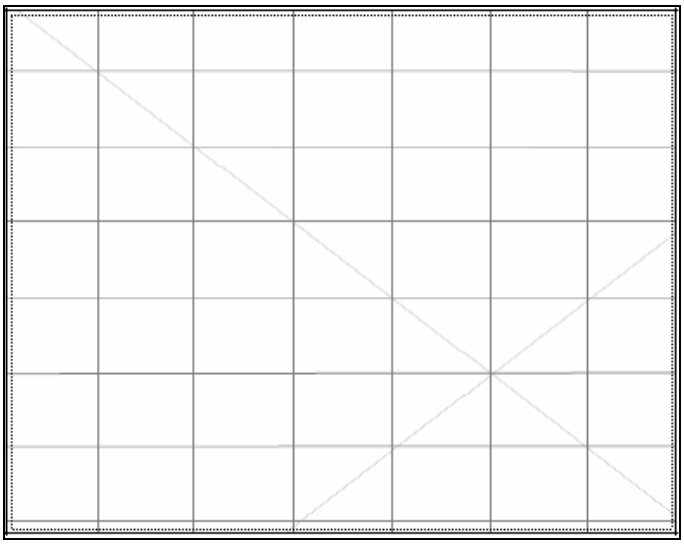


Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-ST5

Easting: 387075 **Northing:** 6121441 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

Land Form Unit: Stream Bank **Vegetation:** Open Woodland

Distance to Water (m): **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Cadell Rd.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1. Modified Tree	1	45	15	10	10	Oval	Other Eucalypt

Feature condition: Good

Description:

Potential scar tree, possum skin curing board. Grey box alive and standing. Length 45 cm x 15 cm, depth 7 cm, distance from ground 95 cm. Evident axe mark.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

Description:

Site photographs

Description: View South

Description: CMT

Description: Evident axe marks

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title **Surname** **First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: | **Date recorded:** 16-08-2023

Site Location Information

Site name: DEHS-2023-ST6

Easting: 387193 **Northing:** 6121537 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Low Intensity

Land Form Unit: Stream Bank **Vegetation:** Open Woodland

Distance to Water (m): **Primary Report:** Dinawan Energy Hub Solar ACHA

How to get to the site: Access site via Cadell Rd.

Other site information:

Site location map

Site plan

Site contents information

open/closed site: Open **Site condition:** Disturbed

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. Modified Tree	2	50	25	20	5	Oval	Other Eucalypt

Feature condition: Disturbed

Description:

Potential scar tree with two scars. Grey box alive and standing. Left scar width 25 cm, length 50 cm, depth 20 cm, from ground 95 cm. Right scar width 12 cm, length 65 cm, depth 25 cm, distance from ground 1 m. Cultural access hole evident. Displays possible chainsaw markings, RAPs note potentially from vandalism.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.							

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
4.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
5.								

Feature condition:

Description:

Site photographs

Description: View South.

Description: Cultural scar B, with 'chainsaw' marking.

Description: Cultural scar B, Access hole with 'chainsaw' marking.

Description: Cultural scar A.

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title	**Surname**	**First name**

Organisation:

Address:

Phone: **E-mail:**

Site interpretation and community statement

Aboriginal Site Recording Form

Manager, Information Systems
Locked Bag 5020, Parramatta 2124 NSW

AHIMS site ID: 55-1-0101 **Date recorded:** 03-10-2023

Site Location Information

Site name: DEH-2023-WT1

Easting: 392577 **Northing:** 6117041 **Coordinates must be in GDA94 (MGA)**

Horizontal Accuracy (m): 5

Zone: 55 Phone GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr.	Elias	Samuel

Organisation: EMM Consulting

Address: Ground Level, Suite 01, 20 Chandos Street, St Leonards, 2065, New South Wales

Phone: 0431029429 **E-mail:** selias@emmconsulting.com.au

Site Context Information

Land Form Pattern: Plain **Land Use:** Farming Intensive

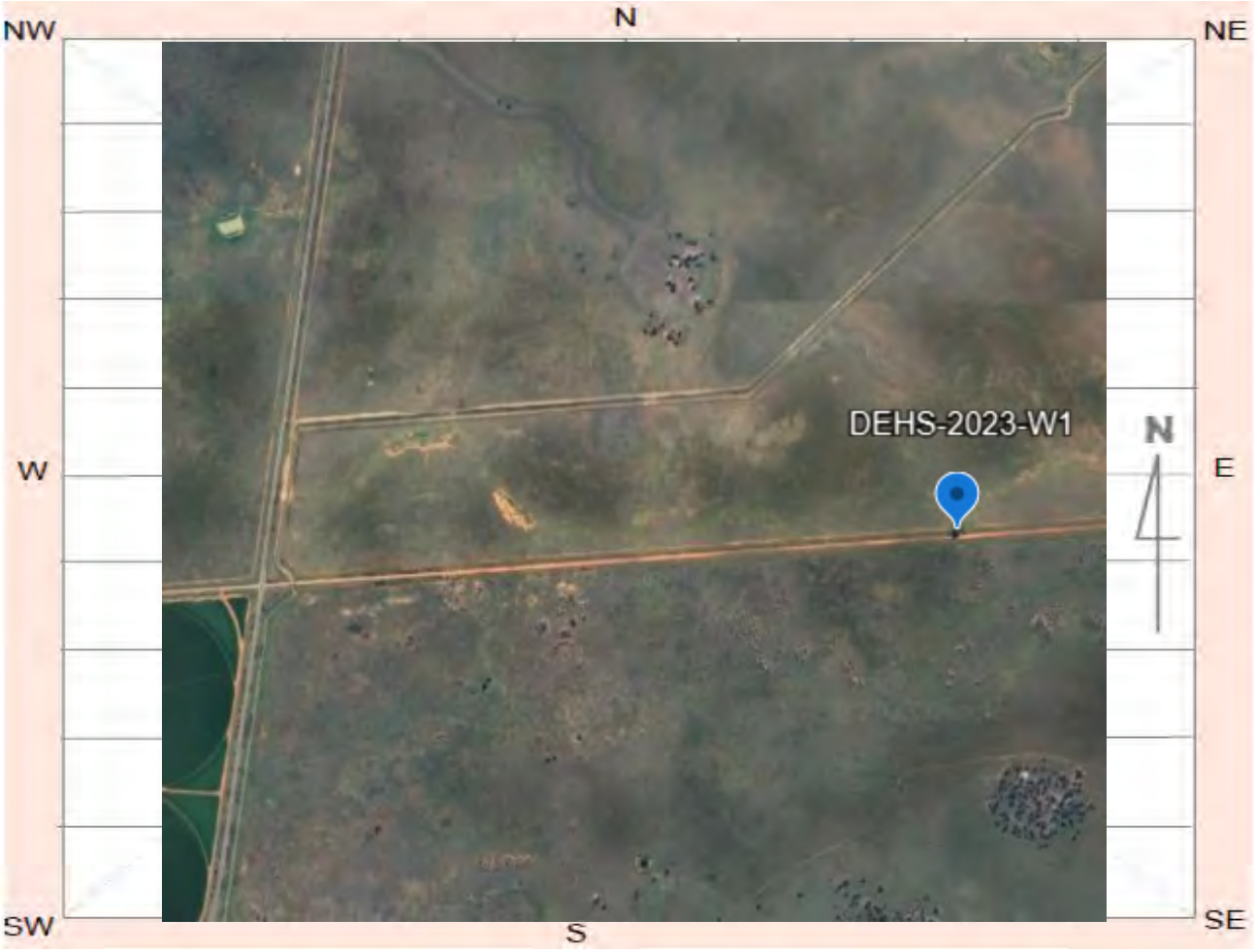
Land Form Unit: Plain **Vegetation:** Grasslands

Distance to Water (m): 1534 **Primary Report:** Dinawan Energy Hub Solar ACHA

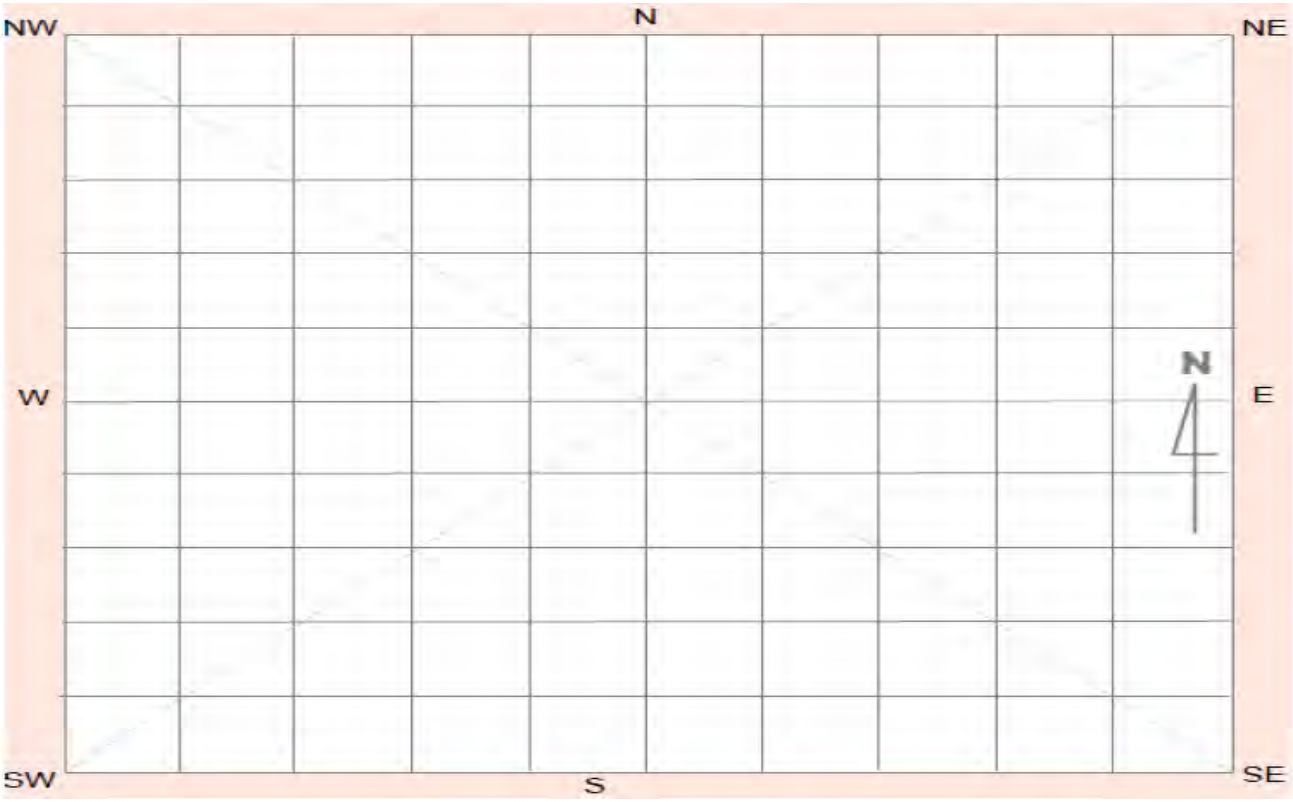
How to get to the site: Access site via Bundure Rd. Site is located on Road side of fence line.

Other site information: Tree located within narrow paleochannel mapping, very prominent feature in the landscape and only river red gum remaining. Of high cultural significance.

Site location map



Site plan



Site contents information

open/closed site: Open **Site condition:** Good

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
1. Modified Tree	0	00	00	00	00	Other	

Feature condition: Good

Description:

Very large river red gum tree, expected to be of some antiquity, with branches that appear to have been trained to grow into the ground providing a dome on the northern side. Circumference of trunk is 5 m; tree is alive and standing. Identified by one of the male RAPs as a potential womens tree. Isolated quartz flake located 10 m north west of tree.

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
2.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Scarred Trees: Regrowth (cm)	Scarred Trees: Scar shape	Scarred Trees: Tree Species
3.							

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
4.							

Red Gum

Feature condition:

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees: Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
5.							

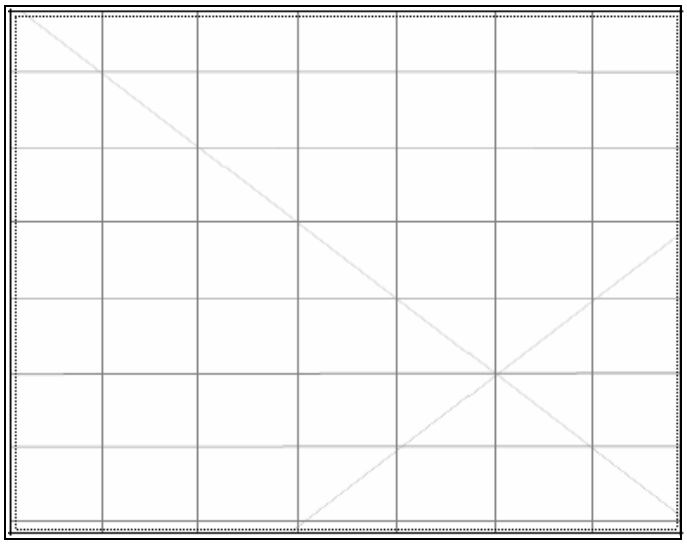
Feature condition:

Description:

Site photographs

Description:

Description:



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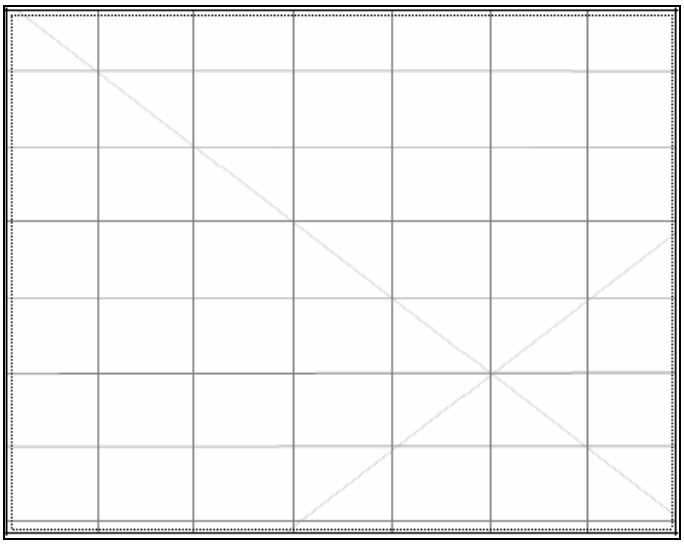


Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender | General | Location — N/A

Why is this site restricted?:

Further information contact

Title | **Surname** | **First name**

Organisation:

Address:

Phone: **E-mail:**

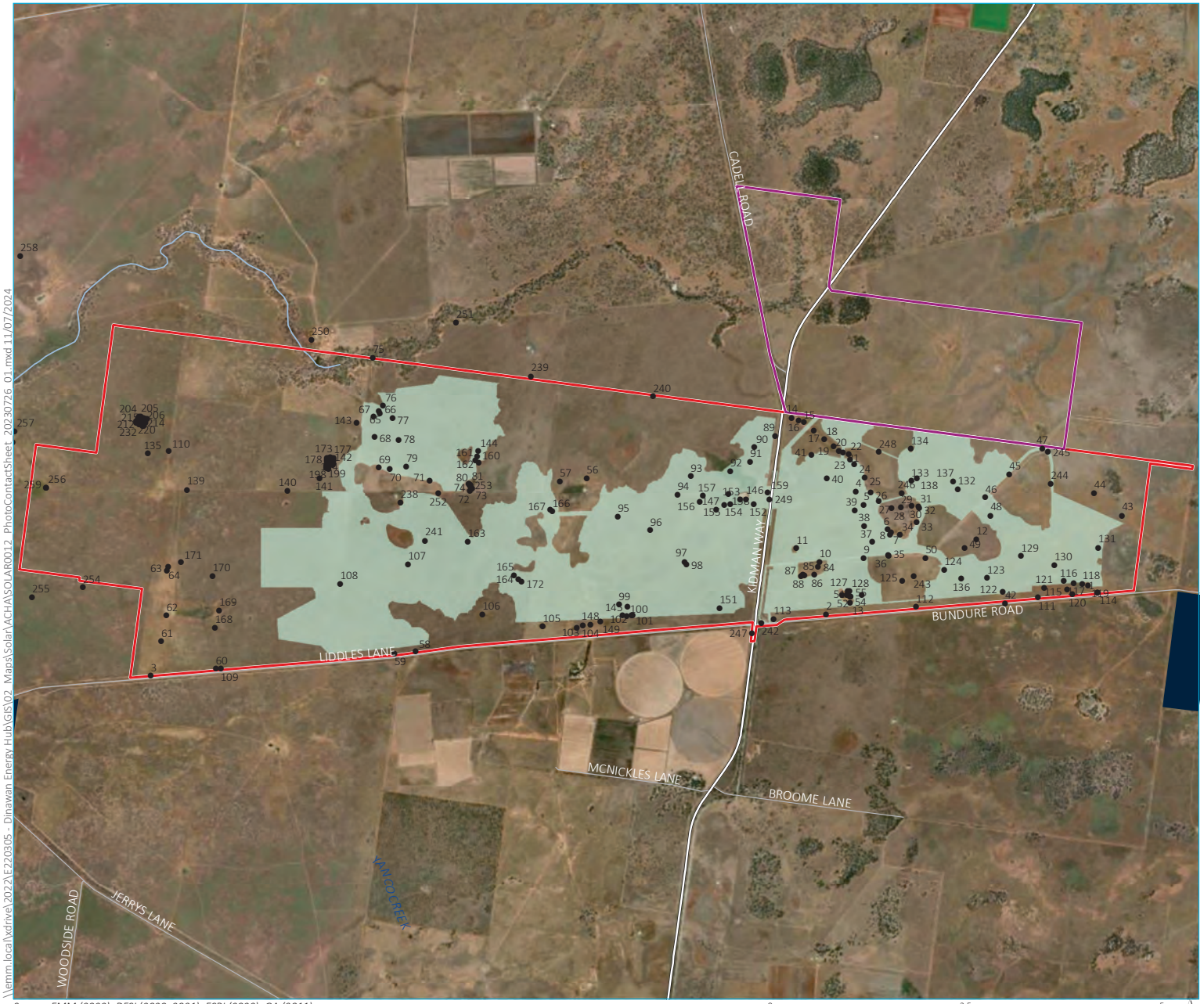
Site interpretation and community statement

-

Annexure E
Field investigation

EMM
creating opportunities

E.1 Photograph catalogue (field survey)



KEY

- Study area
- Development footprint
- Survey photo points

Project EnergyConnect (Transgrid)

- Dinawan Substation

Existing environment

- Watercourse (third order and higher)
- Major road
- Minor road
- Travelling stock reserves

Survey photo point location

Source: EMM (2022); DFSI (2020, 2021); ESRI (2022); GA (2011)

0 2.5 5 km

GDA2020 MGA Zone 55

N

Dinawan Solar Farm
Aboriginal Cultural Heritage Assessment
Figure E.1

EMM creating opportunities

\\emm.localvxdrive\2022\E220305 - Dinawan Energy Hub\GIS\02_Maps\SolarA\ACHA\SOLAR0012_PhotoContactSheet_20230726_01.mxd 11/07/2024

Dinawan Solar (1)

Dinawan Solar (2)

Dinawan Solar (3)

Dinawan Solar (4)

Dinawan Solar (5)

Dinawan Solar (6)

Dinawan Solar (7)

Dinawan Solar (8)

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Dinawan Solar (199)

Dinawan Solar (200)

E.2 Test pit information

E220305 Dinawan Solar Test Pit Information

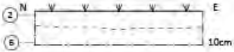
Test pit	Easting	Northing	Depth (cm)	Size (m^2)	Artefact counts (n)
0			10	0.25	0
1			10	0.25	0
2			10	0.25	0
3			10	0.25	0
4			10	0.25	1
5			10	0.25	0
6			10	0.25	0
7			10	0.25	0
8			10	0.25	0
9			10	0.25	0
10			10	0.25	0
11			10	0.25	0
12			10	0.25	0
13			10	0.25	0
14			10	0.25	0
15			10	0.25	1
16			10	0.25	0
17			10	0.25	0
18			10	0.25	0
19			10	0.25	0
20			10	0.25	0
21			10	0.25	0
22			10	0.25	0
23			10	0.25	0
24			10	0.25	0
25			10	0.25	0
26			10	0.25	0
27			10	0.25	0
28			10	0.25	0
29			10	0.25	0
30			10	0.25	0
31			10	0.25	0
32			10	0.25	0
33			10	0.25	0
34			10	0.25	0
35			10	0.25	0
36			10	0.25	0
37			10	0.25	0
38			10	0.25	0
39			10	0.25	0
40			10	0.25	0
41			10	0.25	0
42			10	0.25	0

E220305 Dinawan Solar Test Pit Information

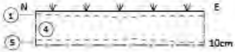
Test pit	Easting	Northing	Depth (cm)	Size (m^2)	Artefact counts (n)
43			10	0.25	0
44			10	0.25	0
45			10	0.25	0
46			10	0.25	0
47			10	0.25	0
48			10	0.25	0
49			10	0.25	0
50			10	0.25	0
51			20	0.25	0
52			10	0.25	0
53			10	0.25	0
54			10	0.25	0
55			10	0.25	0
56			10	0.25	0
57			15	0.25	0
58			10	0.25	0
59			10	0.25	0
60			10	0.25	0
61			10	0.25	0
62			15	0.25	0

TP 34
NORTH SECTION

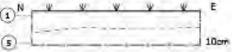
TP 39
NORTH SECTION



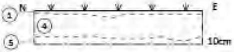
TP 26
NORTH SECTION



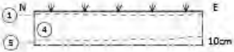
TP 28
NORTH SECTION



TP 36
NORTH SECTION



TP 32
NORTH SECTION



① FINE GRAINED ORANGE BROWN SILT WITH ROOTLETS
② SILTY GREY LOAM WITH ROOTLETS
③ WHITE-ORANGE SILTY CLAY LOAM
④ ORANGE BROWN CLAY LOAM
⑤ BROWN PLASTIC CRACKING CLAYS
⑥ GREY PLASTIC CRACKING CLAY

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VERSION	DESCRIPTION	DATE
1.0	DRAFT	27/06/2023

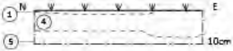
LEGEND
— · — PIT BOUNDARY
——— SOIL PROFILE BOUNDARY
- - - - DIFFUSE SOIL PROFILE BOUNDARY
MED/LARGE ROOTS
COBBLES
INFUSED CHARCOAL
● CLAY BALLS
BURROW
ANT BIOTURBATION
CHARCOAL

CLIENT
SPARKES RENEWABLES

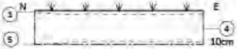
PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

TP 29
NORTH SECTION

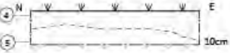


TP 33
NORTH SECTION

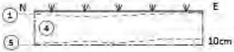


TP 0
NORTH SECTION

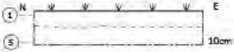
TP 30
NORTH SECTION



TP 3
NORTH SECTION



TP 4
NORTH SECTION



① FINE GRAINED ORANGE BROWN SILT WITH ROOTLETS
② SILTY GREY LOAM WITH ROOTLETS
③ WHITE-ORANGE SILTY CLAY LOAM

TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	001
PROJECT NO.	VERSION	
E220305	1.0	

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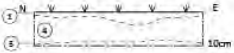
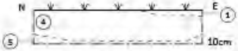
VERSION	DESCRIPTION	DATE
1.0	DRAFT	27/06/2023

LEGEND
PIT BOUNDARY
SOIL PROFILE BOUNDARY
DIFFUSE SOIL PROFILE BOUNDARY
MED/LARGE ROOTS
COBBLES

TP 1
NORTH SECTION

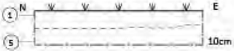


TP2
NORTH SECTION



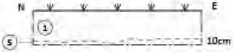
TP 7
NORTH SECTION

TP 5
NORTH SECTION



TP 6
NORTH SECTION

TP 11
NORTH SECTION



④ ORANGE BROWN CLAY LOAM
⑤ BROWN PLASTIC CRACKING CLAYS
⑥ GREY PLASTIC CRACKING CLAY

① FINE GRAIN
② SILTY GREY
③ WHITE-OR

INFUSED CHARCOAL
● CLAY BALLS
BURROW
ANT BIOTURBATION
CHARCOAL

CLIENT
SPARKES RENEWABLES

PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	002
PROJECT NO.	VERSION	
E220305	1.0	

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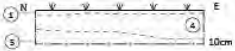
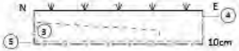
1.0

TP 8
NORTH SECTION



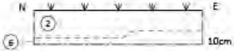
TP 9
NORTH SECTION

TP 10
NORTH SECTION

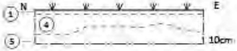


TP 12
NORTH SECTION

TP 13
NORTH SECTION



TP 16
NORTH SECTION



NED ORANGE BROWN SILT WITH ROOTLETS

LOAM WITH ROOTLETS

ANGE SILTY CLAY LOAM

④ ORANGE BROWN CLAY LOAM

⑤ BROWN PLASTIC CRACKING CLAYS

⑥ GREY PLASTIC CRACKING CLAY

DESCRIPTION	DATE
DRAFT	27/06/2023

LEGEND

- PIT BOUNDARY
- SOIL PROFILE BOUNDARY
- DIFFUSE SOIL PROFILE BOUNDARY
- MED/LARGE ROOTS
- COBBLES
- INFUSED CHARCOAL
- CLAY BALLS
- BURROW
- ANT BIOTURBATION
- CHARCOAL

CLIENT
SPARKES RENEWABLES

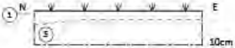
PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

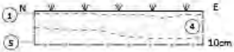
TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	003
PROJECT NO.	**VERSION**	
E220305	1.0	

TP 17
NORTH SECTION

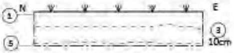


TP 18
NORTH SECTION

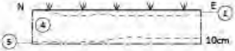


TP 19
NORTH SECTION

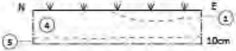
TP 21
NORTH SECTION



TP 22
NORTH SECTION



TP 23
NORTH SECTION



① FINE GRAINED ORANGE BROWN SILT WITH ROOTLETS
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VERSION	DESCRIPTION	DATE
1.0	DRAFT	27/06/2023

LEGEND

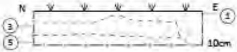
— PIT BOUNDARY
— SOIL PROFILE BOUNDARY
- - - DIFFUSE SOIL PROFILE BOUNDARY
MED/LARGE ROOTS
COBBLES
INFUSED CHARCOAL
CLAY BALLS
BURROW
ANT BIOTURBATION
CHARCOAL

CLIENT
SPARKES RENEWABLES

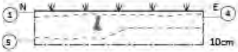
PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

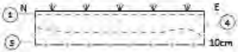
TP 20
NORTH SECTION



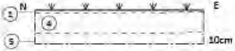
TP 25
NORTH SECTION



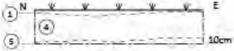
TP 37
NORTH SECTION



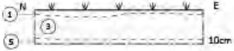
TP 24
NORTH SECTION



TP 39
NORTH SECTION



TP 40
NORTH SECTION



① FINE GRAINED ORANGE BROWN SILT WITH ROOTLETS

② SILTY GREY LOAM WITH ROOTLETS

③ WHITE-ORANGE SILTY CLAY LOAM

④

⑤

⑥

TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	004
PROJECT NO.	**VERSION**	
E220305	1.0	

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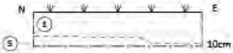
VERSION	DESCRIPTION	DATE
1.0	DRAFT	27/06/2023

LEGEND

— —	PIT BOUNDARY
—	SOIL PROFILE BOUNDARY
- - -	DIFFUSE SOIL PROFILE BOUNDARY
	MED/LARGE ROOTS
	COBBLES

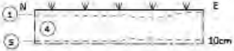
TP 27
NORTH SECTION

TP 38
NORTH SECTION

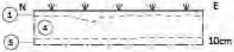


TP 43
NORTH SECTION

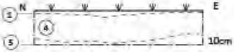
TP 41
NORTH SECTION



TP 42
NORTH SECTION



TP 47
NORTH SECTION



ORANGE BROWN CLAY LOAM

BROWN PLASTIC CRACKING CLAYS

GREY PLASTIC CRACKING CLAY

① FINE GRAIN

② SILTY GREY

③ WHITE-OR

INFUSED CHARCOAL
● CLAY BALLS
BURROW
ANT BIOTURBATION
CHARCOAL

CLIENT
SPARKES RENEWABLES

PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	005
PROJECT NO.	**VERSION**	
E220305	1.0	

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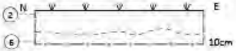
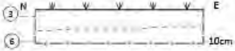
VERSION
1.0

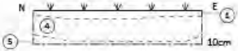
TP 44
NORTH SECTION



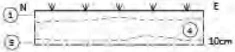
TP 45
NORTH SECTION



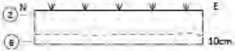
TP 46
NORTH SECTION



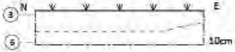
TP 48
NORTH SECTION



TP 49
NORTH SECTION



TP 50
NORTH SECTION



ED ORANGE BROWN SILT WITH ROOTLETS

LOAM WITH ROOTLETS

ANGE SILTY CLAY LOAM

④ ORANGE BROWN CLAY LOAM

⑤ BROWN PLASTIC CRACKING CLAYS

⑥ GREY PLASTIC CRACKING CLAY

DESCRIPTION	DATE
DRAFT	27/06/2023

LEGEND

— - — PIT BOUNDARY
——— SOIL PROFILE BOUNDARY
- - - - DIFFUSE SOIL PROFILE BOUNDARY
MED/LARGE ROOTS
COBBLES
INFUSED CHARCOAL
● CLAY BALLS
BURROW
ANT BIOTURBATION
CHARCOAL

CLIENT
SPARKES RENEWABLES

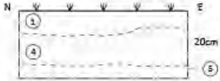
PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

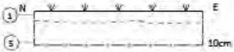
TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	006
PROJECT NO.	**VERSION**	
E220305	1.0	

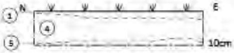
TP 51
NORTH SECTION



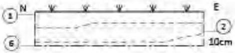
TP 52
NORTH SECTION



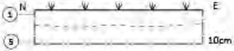
TP 53
NORTH SECTION



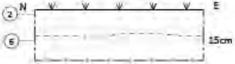
TP 55
NORTH SECTION



TP 56
NORTH SECTION



TP 57
NORTH SECTION



① FINE GRAINED ORANGE BROWN SILT WITH ROOTLETS
② SILTY GREY LOAM WITH ROOTLETS
③ WHITE-ORANGE SILTY CLAY LOAM
④ ORANGE BROWN CLAY LOAM
⑤ BROWN PLASTIC CRACKING CLAYS
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LEGEND

- PIT BOUNDARY
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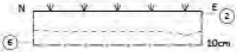
- MED/LARGE ROOTS
- COBBLES
- INFUSED CHARCOAL
- CLAY BALLS
- BURROW
- ANT BIOTURBATION
- CHARCOAL

CLIENT
SPARKES RENEWABLES

PROJECT
DINAWAN SOLAR FARM

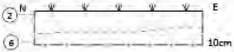
TITLE
TEST PIT SECTION DRAWINGS

TP 54
NORTH SECTION



TP 59
NORTH SECTION

TP 60
NORTH SECTION



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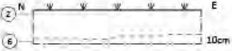

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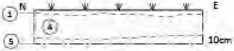

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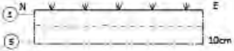

① FINE GRAINED ORANGE BROWN SILT WITH ROOTLETS

② SILTY GREY LOAM WITH ROOTLETS

③ WHITE-ORANGE SILTY CLAY LOAM

TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	007
PROJECT NO.	**VERSION**	
E220305	1.0	

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St Leonards NSW 1590
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E info@emmconsulting.com.au
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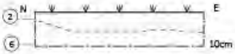
VERSION	DESCRIPTION	DATE
1.0	DRAFT	27/06/2023

LEGEND

——	PIT BOUNDARY
——	SOIL PROFILE BOUNDARY
- - -	DIFFUSE SOIL PROFILE BO
	MED/LARGE ROOTS
	COBBLES

TP 61
NORTH SECTION



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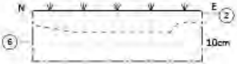
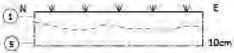
NORTH SECTION

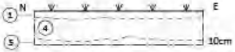


TP 34
NORTH SECTION

TP 27
NORTH SECTION



TP 31
NORTH SECTION



DEH-2023-H5
NORTH WEST SECTION

④ ORANGE BROWN CLAY LOAM
⑤ BROWN PLASTIC CRACKING CLAYS
⑥ GREY PLASTIC CRACKING CLAY

① FINE GRAI
② SILTY GREY
③ WHITE-OF

NDARY
INFUSED CHARCOAL
● CLAY BALLS
BURROW
ANT BIOTURBATION
CHARCOAL

CLIENT
SPARKES RENEWABLES

PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
1:10	SE/MSB	008
PROJECT NO.	**VERSION**	
E220305	1.0	

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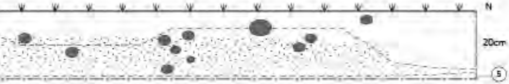
www.emmconsulting.com.au

VERSION
1.0



NED ORANGE BROWN SILT WITH ROOTLETS

Y LOAM WITH ROOTLETS

RANGE SILTY CLAY LOAM

④ ORANGE BROWN CLAY LOAM

⑤ BROWN PLASTIC CRACKING CLAYS

⑥ GREY PLASTIC CRACKING CLAY

DESCRIPTION	DATE
DRAFT	27/06/2023

LEGEND

PIT BOUNDARY
SOIL PROFILE BOUNDARY
DIFFUSE SOIL PROFILE BOUNDARY
MED/LARGE ROOTS
COBBLES
INFUSED CHARCOAL
● CLAY BALLS
BURROW
ANT BIOTURBATION
CHARCOAL

CLIENT
SPARKES RENEWABLES

PROJECT
DINAWAN SOLAR FARM

TITLE
TEST PIT SECTION DRAWINGS

TP SECTION DRAWINGS

SCALE	DRAWN/CHECK	DRAWING NO.
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PROJECT NO.	VERSION	
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E.3 Photograph catalogue (excavation)

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4809_image2-20230522-045

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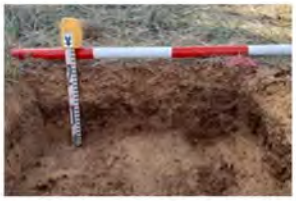
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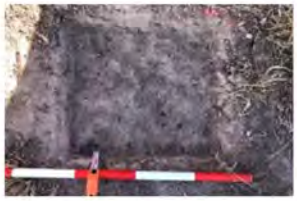
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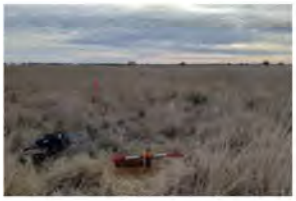
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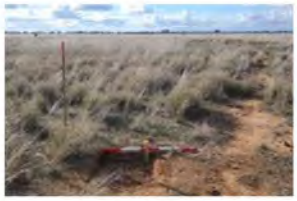
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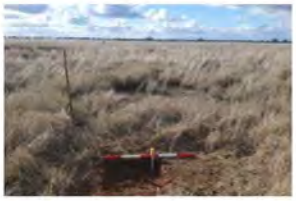
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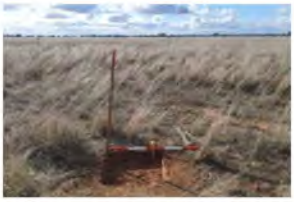
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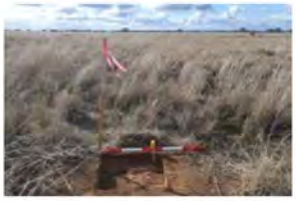
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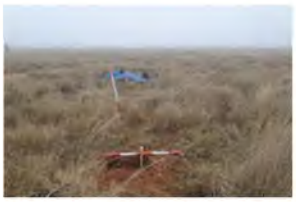
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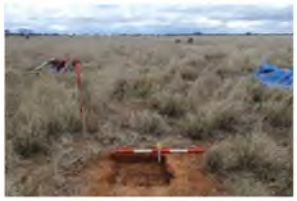
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