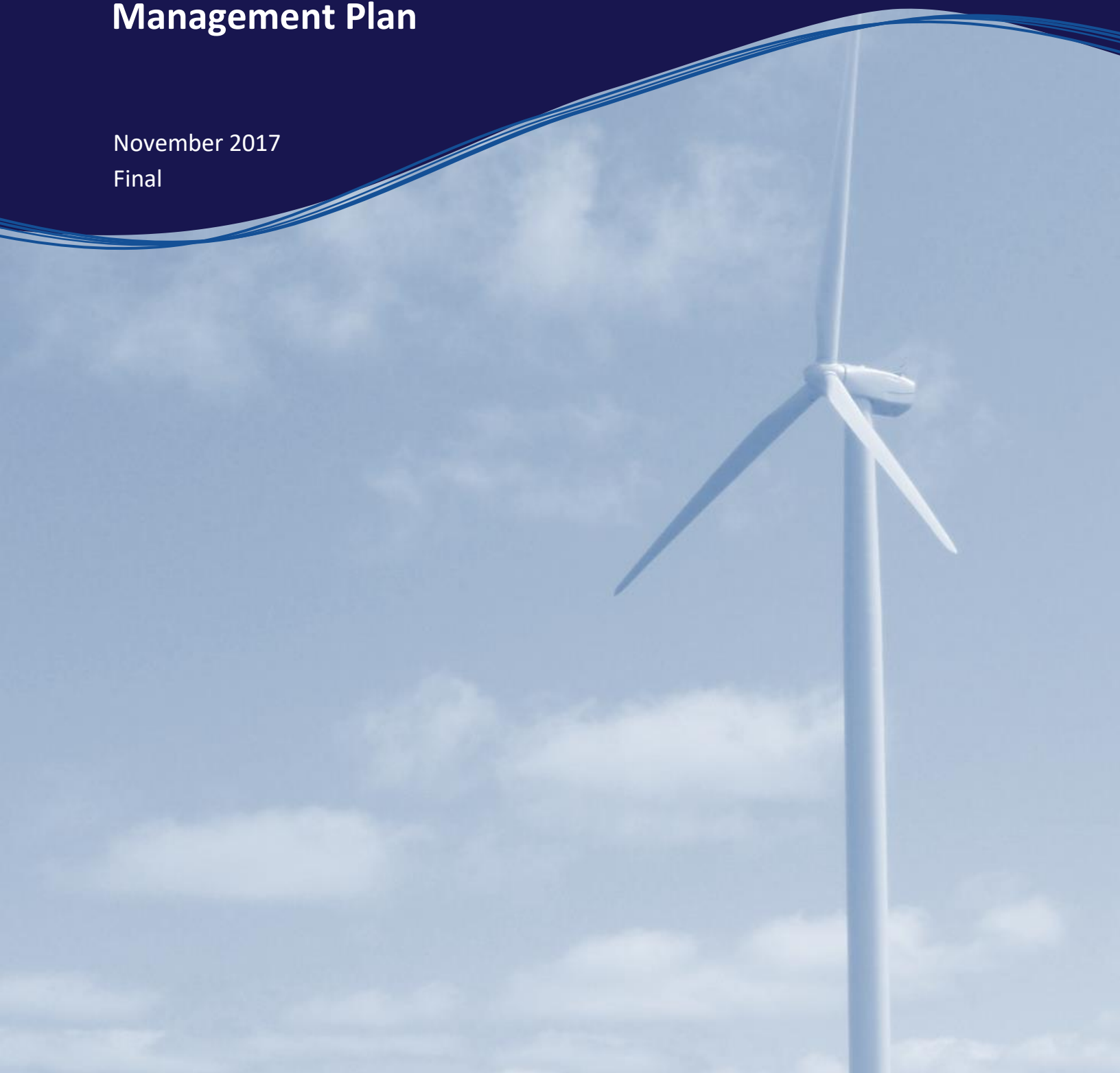


# Crudine Ridge Wind Farm Aboriginal Heritage Management Plan



November 2017  
Final



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**Contributors:**

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Abbreviations

Abbreviation	Meaning
AHIMS	Aboriginal Heritage Information Management System
AHMP	Aboriginal Heritage Management Plan
CCC	Community Consultative Committee
CoA	Condition of Approval
CRWF	Crudine Ridge Wind Farm
DECCW	Department of Environment, Climate Change and Water, now OEH
Department, the	Commonwealth Department of the Environment and Energy
Development Corridor	The approved Development Corridor as defined in the Development Consent, comprising of a 100m buffer around all approved infrastructure.
Development Footprint	The area of physical disturbance associated with the construction of the Project, comprised of temporary impacts and permanent impacts, including those along Aarons Pass Road and Bombandi Road.
DOEE	Commonwealth Department of the Environment and Energy
DPE	NSW Department of Planning and the Environment
DPE	NSW Department of Planning and Environment
EA	Environmental Assessment
EMS	Environmental Management Strategy
EP&A Act	NSW <i>Environmental Planning and Assessment Act 1979</i>
EPC	Engineering, Procurement and Construction contractor; also refers to any other principal contracting entity engaged on the Project, such as TransGrid
Heritage Item	An item as defined under the Heritage Act and/or an Aboriginal object or Aboriginal Place as defined under the NPW Act.
MWRC	Mid-Western Regional Council
NPW Act 1974	National Parks and Wildlife Act 1974
OEH	Office of Environment and Heritage
Project Site	The land within the cadastral boundaries associated with the proposed Project, as defined in the Development Consent.
RAPs	Registered Aboriginal Parties - Aboriginal stakeholders registered for cultural heritage consultation for the development
RMP	Risk Management Plan
Secretary, the	Secretary for the NSW Department of Planning and the Environment

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# 1 Introduction

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This Aboriginal Heritage Management Plan (AHMP) has been prepared by Julie Dibden, NSW Archaeology Pty Ltd, for CWP Renewables on behalf of Crudine Ridge Wind Farm Pty Ltd (The Proponent). The document forms a component of the Crudine Ridge Wind Farm (CRWF; the Project) Environmental Management Strategy (EMS).

The Project will consist of up to 37 wind turbine generators (turbines), access roads, hardstands, laydown areas, internal electrical reticulation, temporary construction compounds, rock crushing facilities, concrete batching plant(s), a substation, an operations and maintenance facility, a 16 km overhead transmission line and a switching station. The turbines to be constructed and operated for the Project will be selected from the 57 approved wind turbine locations. A map showing all approved Project infrastructure is shown in Figure 1.

The Aboriginal heritage in the Development Corridor was recorded during the EA in 2011, as documented in the report entitled:

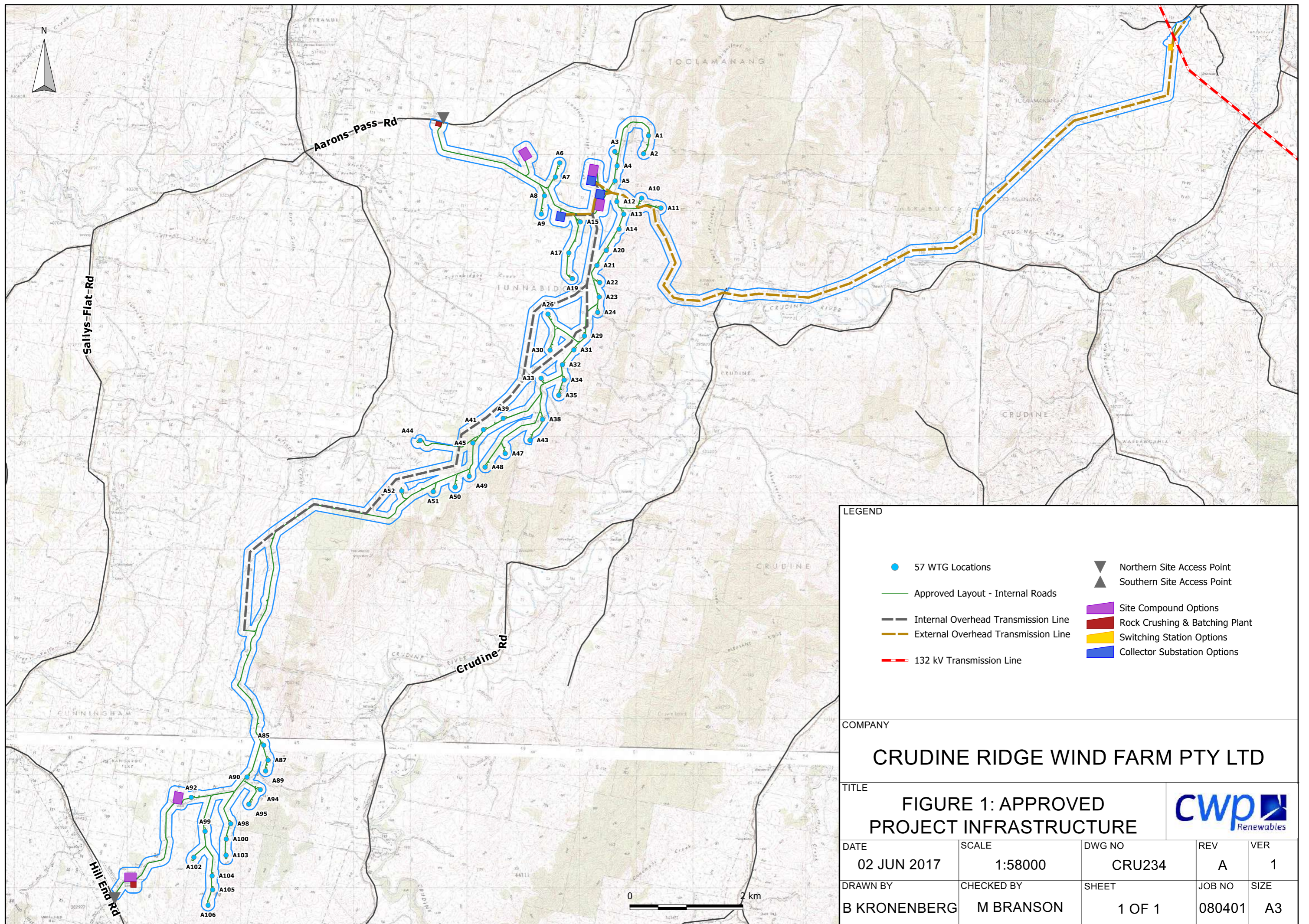
*Julie Dibden (2012) Proposed Crudine Ridge Wind Farm European and Aboriginal Cultural Heritage Assessment Report. A report to Crudine Ridge Wind Farm Pty Ltd.*

The location of all Aboriginal object locales recorded during the EA are shown in Figures 2 to 4. Detailed maps clearly showing the area encompassed by each Aboriginal object locale are shown in Appendix 2.

This AHMP has been prepared based on the potential impacts of all Approved Project Infrastructure (Figure 1), including the 57 available turbine locations and all infrastructure options presented in the EA. Prior to construction an Engineering Procurement and Construction (EPC) contractor will be appointed to prepare a detailed design for the final layout, and deliver the construction phase of the Project. In this plan the term EPC is used to represent any contractor engaged by the Project Owner to deliver works under supervision of the Principal for the Project. Avoidance through design will be the primary measure adopted to reduce impacts of the Project on heritage at the Project site. This plan describes the measures that will be implemented to manage and mitigate unavoidable impacts associated with the construction of the Project, once the final design layout is determined.

A description of how the Project will comply with the broader requirements of the Development Consent and EPBC Approval is provided in the EMS.



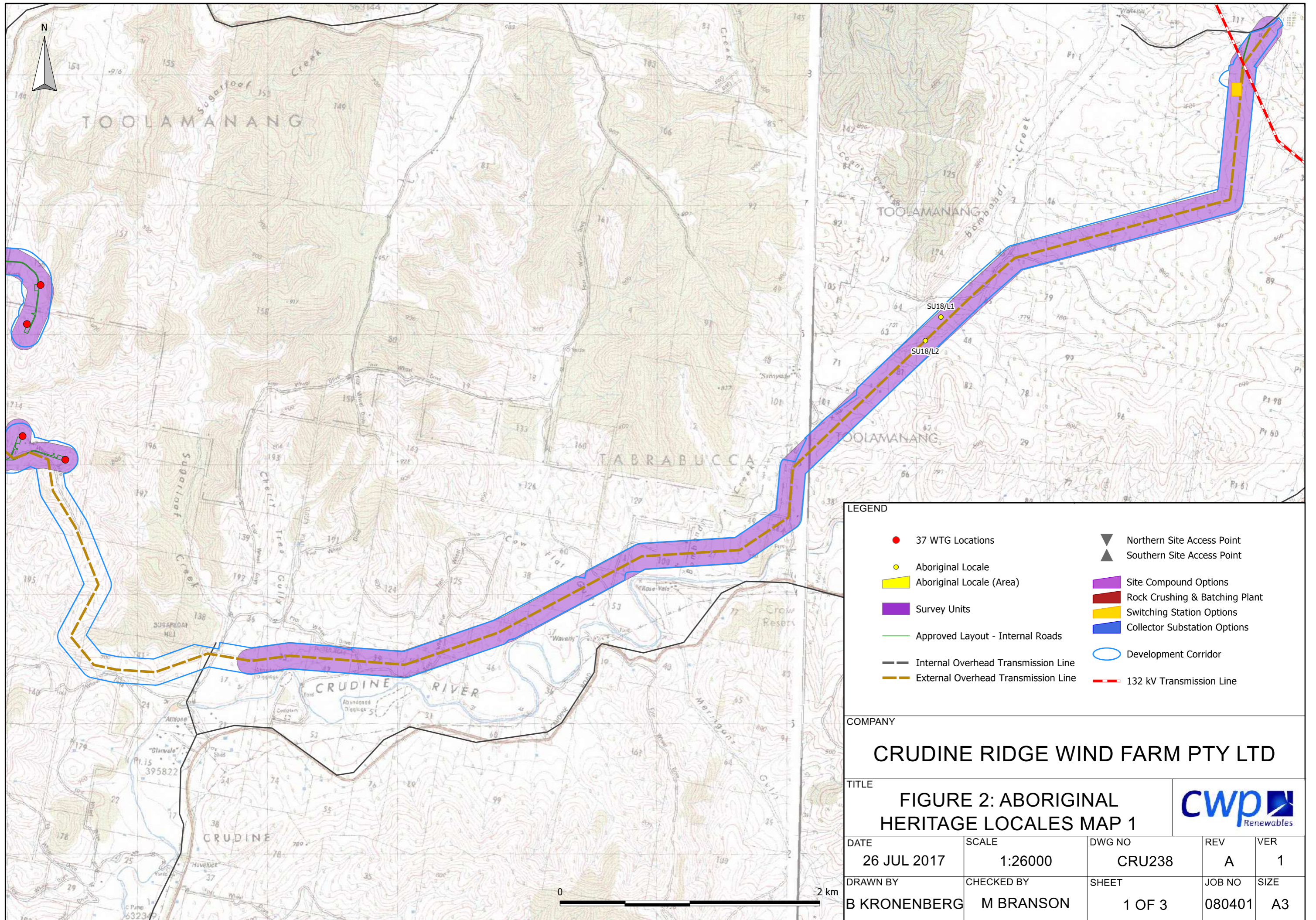


**LEGEND**

- 57 WTG Locations
- Approved Layout - Internal Roads
- Internal Overhead Transmission Line
- External Overhead Transmission Line
- 132 kV Transmission Line
- ▲ Northern Site Access Point
- ▼ Southern Site Access Point
- Site Compound Options
- Rock Crushing & Batching Plant
- Switching Station Options
- Collector Substation Options

<b>COMPANY</b>				
<b>CRUDINE RIDGE WIND FARM PTY LTD</b>				
<b>TITLE</b>				
<b>FIGURE 1: APPROVED PROJECT INFRASTRUCTURE</b>				
DATE	SCALE	DWG NO	REV	VER
02 JUN 2017	1:58000	CRU234	A	1
DRAWN BY	CHECKED BY	SHEET	JOB NO	SIZE
B KRONENBERG	M BRANSON	1 OF 1	080401	A3





LEGEND	
<span style="color: red;">●</span>	37 WTG Locations
<span style="color: yellow;">●</span>	Aboriginal Locale
<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Aboriginal Locale (Area)
<span style="background-color: purple; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Survey Units
<span style="color: green;">—</span>	Approved Layout - Internal Roads
<span style="color: black;">—</span>	Internal Overhead Transmission Line
<span style="color: yellow;">—</span>	External Overhead Transmission Line
<span style="color: black;">▲</span>	Northern Site Access Point
<span style="color: black;">▼</span>	Southern Site Access Point
<span style="background-color: purple; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Site Compound Options
<span style="background-color: red; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Rock Crushing & Batching Plant
<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Switching Station Options
<span style="background-color: blue; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Collector Substation Options
<span style="border: 1px solid blue; border-radius: 50%; display: inline-block; width: 15px; height: 10px;"></span>	Development Corridor
<span style="color: red; border-bottom: 1px dashed red; display: inline-block; width: 15px;"></span>	132 kV Transmission Line

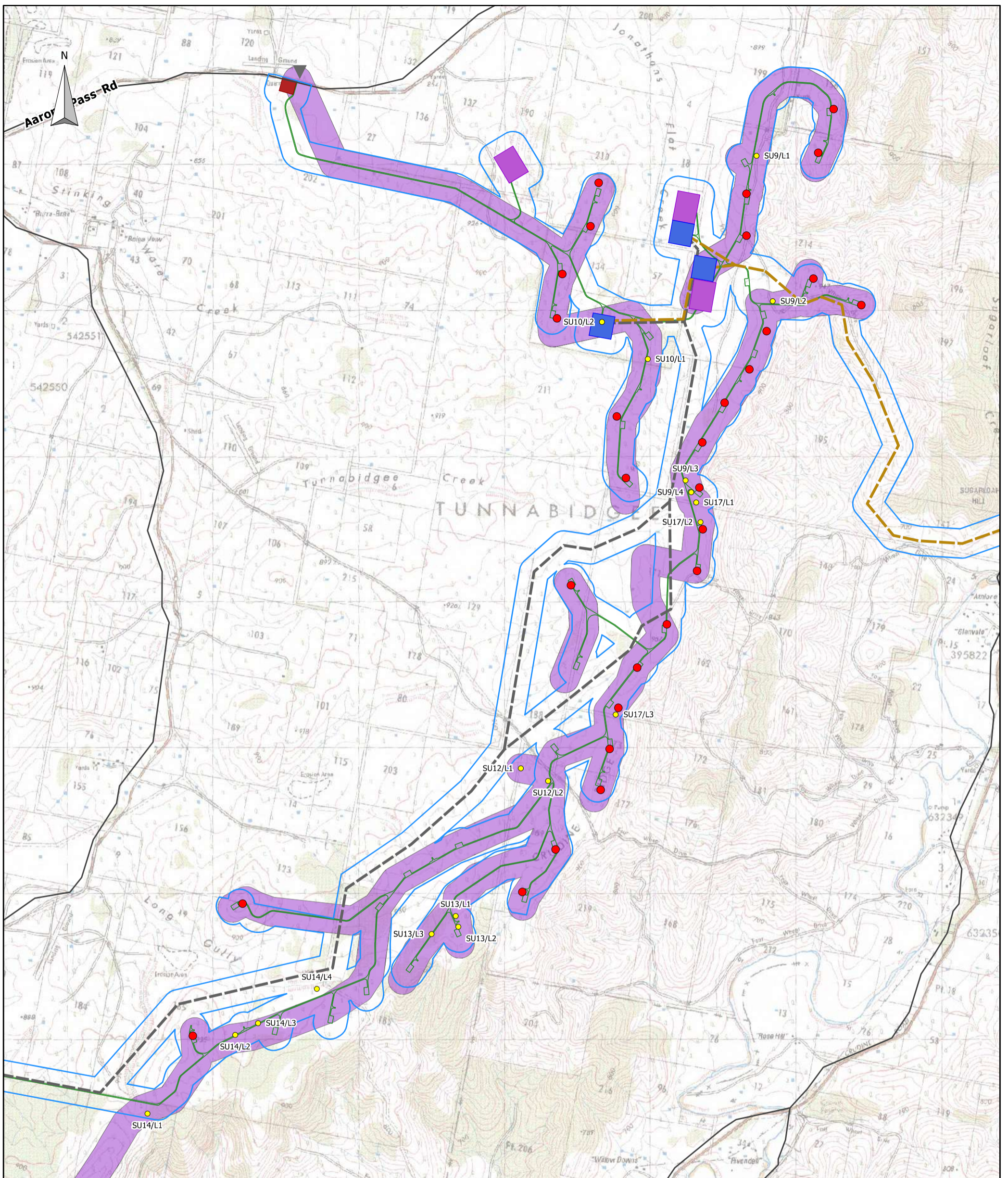
COMPANY  
**CRUDINE RIDGE WIND FARM PTY LTD**

TITLE  
**FIGURE 2: ABORIGINAL HERITAGE LOCALES MAP 1**



DATE 26 JUL 2017	SCALE 1:26000	DWG NO CRU238	REV A	VER 1
DRAWN BY B KRONENBERG	CHECKED BY M BRANSON	SHEET 1 OF 3	JOB NO 080401	SIZE A3





LEGEND	
<span style="color: red;">●</span> 37 WTG Locations	Northern Site Access Point
<span style="color: yellow;">●</span> Aboriginal Locale	Southern Site Access Point
Aboriginal Locale (Area)	Site Compound Options
Survey Units	Rock Crushing & Batching Plant
Approved Layout - Internal Roads	Switching Station Options
Internal Overhead Transmission Line	Collector Substation Options
External Overhead Transmission Line	Development Corridor
132 kV Transmission Line	

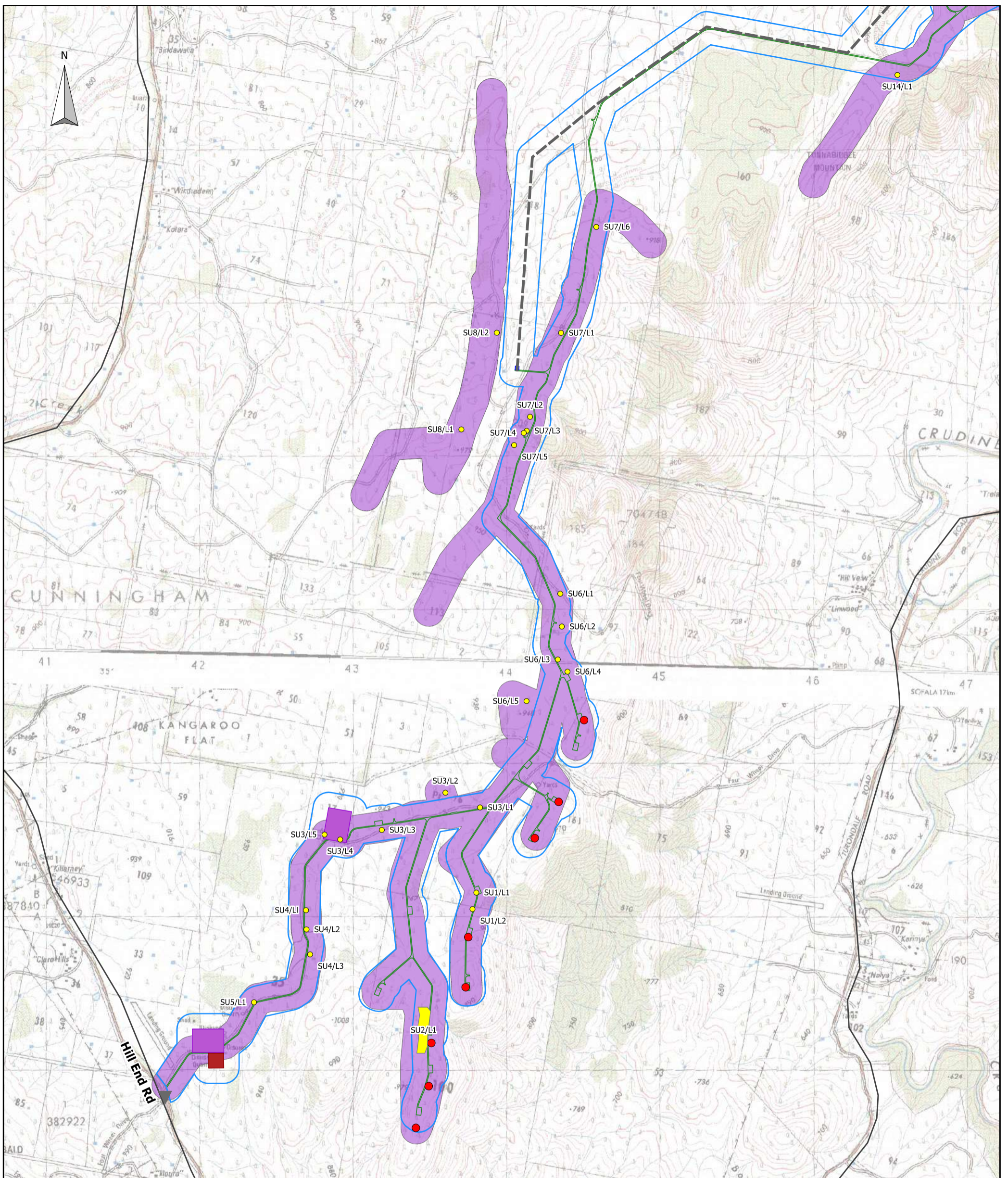



COMPANY	
CRUDINE RIDGE WIND FARM PTY LTD	

TITLE				
FIGURE 3: ABORIGINAL HERITAGE LOCALES MAP 2				

DATE	SCALE	DWG NO	REV	VER
26 JUL 2017	1:25000	CRU238	A	1
DRAWN BY	CHECKED BY	SHEET	JOB NO	SIZE
B KRONENBERG	M BRANSON	2 OF 3	080401	A3





LEGEND		COMPANY				
● 37 WTG Locations	▲ Northern Site Access Point	CRUDINE RIDGE WIND FARM PTY LTD				
● Aboriginal Locale	▲ Southern Site Access Point					
■ Aboriginal Locale (Area)	■ Site Compound Options					
■ Survey Units	■ Rock Crushing & Batching Plant	TITLE				
— Approved Layout - Internal Roads	■ Switching Station Options	FIGURE 4: ABORIGINAL HERITAGE LOCALES MAP 3				
— Internal Overhead Transmission Line	■ Collector Substation Options	DATE	SCALE	DWG NO	REV	VER
— External Overhead Transmission Line	○ Development Corridor	26 JUL 2017	1:24000	CRU238	A	1
	— 132 kV Transmission Line	DRAWN BY	CHECKED BY	SHEET	JOB NO	SIZE
		B KRONENBERG	M BRANSON	3 OF 3	080401	A3





## 1.1 Purpose and Scope

The AHMP has been developed to meet the requirements of the Project's Development Consent (SSD-6697), specifically conditions 25 - 27 (Schedule 3 Environmental Conditions - General). The scope of this AHMP is to detail how construction impacts will be avoided, minimised and managed, including the roles and responsibilities for implementation. This plan has been developed as a component of, and should be read in conjunction with, the Project's EMS.

## 1.2 Legislative Requirements

Table 1 Relevant Legislation and Policies

Legislation	Relevance
<i>Environment Planning and Assessment (EP&amp;A) Act 1979</i>	<i>DGRs issued 29 May 2009 (which were revised and extended on 21 February 2011). Supplementary DGRs issued on 31 March 2011 and 16 August 2011.</i>
<i>National Parks and Wildlife Act as amended (1974)</i>	<i>Provides protection for Aboriginal Objects and or Aboriginal Places</i>
<i>National Parks and Wildlife Amendment Regulation 2009</i>	<i>Provides protection for Aboriginal Objects and or Aboriginal Places</i>
<i>Heritage Act 1977 (Heritage Act)</i>	<i>Provides protection for heritage items</i>
<i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Commonwealth)</i>	<i>Aims to preserve and protect from injury or desecration areas and objects in Australia and in Australian waters, being areas and objects that are of particular significance to Aboriginals in accordance with Aboriginal tradition.</i>

## 1.3 Conditions of Approval

The Project's Development Consent (SSD-6697) sets out conditions 25 - 27 (Schedule 3 Environmental Conditions - General) in respect of Aboriginal heritage (Table 2).

Table 2 Conditions of Approval relevant to this Management Plan

CoA	Requirement	Section this is Addressed
25	<b>Protection of Aboriginal heritage items</b> <i>The Applicant shall ensure that the development does not cause any direct or indirect impact on any Aboriginal heritage items located outside the approved disturbance area.</i>	Section 4
26	<b>Aboriginal Heritage Management Plan</b> <i>Prior to the commencement of construction, the Applicant shall prepare an Aboriginal Heritage Management Plan for the Development to the satisfaction of the Secretary. This Plan must:</i> <ol style="list-style-type: none"> <li><i>a. be prepared in consultation with OEH and Aboriginal stakeholders); and</i></li> <li><i>b. include a description of the measures that would be implemented for:</i> <ul style="list-style-type: none"> <li><i>• minimising ground disturbance within the project area during construction and decommissioning works;</i></li> </ul> </li> </ol>	



CoA	Requirement	Section this is Addressed
	<ul style="list-style-type: none"> <li>managing impacts to Aboriginal heritage items within the project development area;</li> <li>managing the discovery of human remains or previously unidentified Aboriginal items on site, and</li> <li>ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that suitable records are kept of these inductions.</li> </ul>	
27	Following approval, the Applicant must implement the measures described in the Aboriginal Heritage Management Plan.	Section 4

#### 1.4 Consultation

A formal process of Aboriginal consultation had been conducted for this project, as documented in Dibden (2012). The Registered Aboriginal Parties (RAPs) in the process of consultation for the project are listed in the table below. Contact details for RAPs are provided in Appendix 1.

Table 3 Registered Aboriginal Parties

Murong Gialinga Aboriginal and Torres Strait Islander Corporation
North East Wiradjuri Company Ltd
Warrabinga Native Title Claimants Aboriginal Corporation
Mudgee LALC
North East Wiradjuri
Wiradjuri People of Bathurst/Lithgow/Mudgee
Wiray-dyuraa Maying-gu Native Title Claim Group
Wiray-dyuraa Ngumbaay-dyil Native Title Claim Group
Mingaan Corporation
NEWCO
Wellington Valley Wiradjuri Aboriginal Corporation
Binjang Wiradjuri Aboriginal Heritage Surveys

Consultation with the Registered Aboriginal Parties would be ongoing during the life of the development. This would include, but not be limited to:

- Consultation in regard to processes and strategies as outlined in this AHMP;
- Participation in the salvage of heritage items; and
- Consultation in the event of unexpected Aboriginal objects or burials being found during the construction and operation of the wind farm (Refer to Section 4.4 and 4.5).

This document is a final version of the AHMP, prepared following a review process with the Registered Aboriginal Parties, the NSW Office of Environment and Heritage and the NSW Department of Planning and Environment.

## 2 Environmental Conditions

---

### 2.1 Existing Conditions

The Aboriginal heritage in the Development Corridor was recorded during the EA in 2011, as documented in the report entitled:

*Julie Dibden 2012 Proposed Crudine Ridge Wind Farm European and Aboriginal Cultural Heritage Assessment Report. A report to Crudine Ridge Wind Farm Pty Ltd.*

The Aboriginal object locales recorded within the Development Corridor during the EA are listed in the table below. The location of all Aboriginal object locales is shown in Figure 2 to 4. Detailed maps clearly showing the area encompassed by each Aboriginal object locale are shown in Appendix 2.

*Table 4 A Summary of the Aboriginal object locales identified by Dibden (2012). Coordinate system: GDA.*

ID	Easting	Northing	Figure No.	Contents
SU1/L1	743920	6344335	4	3 stone artefacts in 625 sq m area
SU1/L2	743895	6344227	4	4 stone artefacts in 400 sq m area
SU2/L1	743574	6343444	4	c. 50 stone artefacts in 21,000 sq m area
SU3/L1	743944	6344890	4	2 stone artefacts in 400 sq m area
SU3/L2	743718	6344986	4	3 stone artefacts in 400 sq m area
SU3/L3	743303	6344743	4	2 stone artefacts in 50 sq m area
SU3/L4	743032	6344681	4	4 stone artefacts in 105 sq m area
SU3/L5	742930	6344713	4	3 stone artefacts in 8 sq m area
SU4/L1	742809	6344220	4	3 stone artefacts in 4 sq m area
SU4/L2	742812	6344095	4	4 stone artefacts in 900 sq m area
SU4/L3	742836	6343932	4	1 stone artefact
SU5/L1	742470	6343620	4	3 stone artefacts in 12 sq m area
SU6/L1	744467	6346283	4	6 stone artefacts in 225 sq m area
SU6/L2	744477	6346069	4	3 stone artefacts in 200 sq m area
SU6/L3	744451	6345854	4	10 stone artefacts in 75 sq m area
SU6/L4	744514	6345775	4	8 stone artefacts in 2400 sq m area
SU6/L5	744247	6345583	4	2 stone artefacts in 300 sq m area
SU7/L1	744472	6347983	4	1 stone artefact
SU7/L2	744270	6347436	4	7 stone artefacts in 1,600 sq m area
SU7/L3	744248	6347345	4	5 stone artefacts in 100 sq m area
SU7/L4	744229	6347331	4	13 stone artefacts in 600 sq m area
SU7/L5	744166	6347252	4	2 stone artefacts in 8 sq m area
SU7/L6	744702	6348674	4	1 stone artefact
SU8/L1	743822	6347354	4	1 stone artefact
SU8/L2	744053	6347984	4	1 stone artefact
SU9/L1	750844	6356236	3	1 stone artefact

ID	Easting	Northing	Figure No.	Contents
SU9/L2	750955	6355239	3	1 stone artefact
SU9/L3	750357	6354009	3	1 stone artefact
SU9/L4	750396	6353928	3	1 stone artefact
SU10/L1	750098	6354842	3	1 stone artefact
SU10/L2	749783	6355096	3	2 stone artefacts in 300 sq m area
SU12/L1	749227	6352034	3	4 stone artefacts in 400 sq m area
SU12/L2	749414	6351947	3	2 stone artefacts in 50 sq m area
SU13/L1	748780	6351021	3	3 stone artefacts in 100 sq m area
SU13/L2	748798	6350947	3	c. 50 stone artefacts in 1,200 sq m area
SU13/L3	748614	6350897	3	2 stone artefacts in 3 sq m area
SU14/L1	746665	6349665	3 and 4	1 stone artefact
SU14/L2	747267	6350205	3	2 stone artefacts in 1 sq m area
SU14/L3	747424	6350286	3	1 stone artefact
SU14/L4	747827	6350521	3	14 stone artefacts in 1,375 sq m area
SU17/L1	750430	6353858	3	3 stone artefacts in 8 sq m area
SU17/L2	750460	6353723	3	1 stone artefact
SU17/L3	749878	6352403	3	1 stone artefact
SU18/L1	758305	6356311	2	1 stone artefact
SU18/L2	758186	6356129	2	4 stone artefacts in 20 sq m area

## 2.2 Potential Impacts

Anticipated impacts to Aboriginal heritage, based on all Approved Project Infrastructure is set out in the table below. Not all sites located during the EA would be impacted during construction of the development. Following detailed design, the EPC Environment Officer in consultation with the project archaeologist, will identify aboriginal object locales which may be impacted by the final project design, and assign mitigation measures according to this plan. The location of all Aboriginal object locales recorded at the Project Site is shown in Figures 2 to 4. Detailed maps clearly showing the area encompassed by each Aboriginal object locale are shown in Appendix 1 of the Dibden (2012) report.

*Table 5 Aboriginal object locales located within likely impact areas.*

ID	Contents	Likely Impacts
SU1/L1	3 stone artefacts in 625 sq m area	Internal road / cabling
SU1/L2	4 stone artefacts in 400 sq m area	Internal road / cabling
SU2/L1	c. 50 stone artefacts in 21,000 sq m area	Internal road / cabling
SU3/L1	2 stone artefacts in 400 sq m area	Internal road / cabling
SU3/L2	3 stone artefacts in 400 sq m area	None anticipated
SU3/L3	2 stone artefacts in 50 sq m area	Adjacent internal road
SU3/L4	4 stone artefacts in 105 sq m area	Internal road / cabling
SU3/L5	3 stone artefacts in 8 sq m area	Internal road / cabling
SU4/L1	3 stone artefacts in 4 sq m area	Internal road / cabling

<b>ID</b>	<b>Contents</b>	<b>Likely Impacts</b>
SU4/L2	4 stone artefacts in 900 sq m area	Internal road / cabling
SU4/L3	1 stone artefact	Internal road / cabling
SU5/L1	3 stone artefacts in 12 sq m area	Internal road / cabling
SU6/L1	6 stone artefacts in 225 sq m area	Adjacent internal road
SU6/L2	3 stone artefacts in 200 sq m area	Adjacent internal road
SU6/L3	10 stone artefacts in 75 sq m area	Internal road / cabling
SU6/L4	8 stone artefacts in 2400 sq m area	Internal road / cabling
SU6/L5	2 stone artefacts in 300 sq m area	None anticipated
SU7/L1	1 stone artefact	Internal road / cabling
SU7/L2	7 stone artefacts in 1,600 sq m area	Adjacent internal road
SU7/L3	5 stone artefacts in 100 sq m area	Adjacent internal road
SU7/L4	13 stone artefacts in 600 sq m area	Adjacent internal road
SU7/L5	2 stone artefacts in 8 sq m area	None anticipated
SU7/L6	1 stone artefact	Internal road / cabling
SU8/L1	1 stone artefact	None anticipated
SU8/L2	1 stone artefact	None anticipated
SU9/L1	1 stone artefact	Adjacent internal road
SU9/L2	1 stone artefact	Adjacent internal road
SU9/L3	1 stone artefact	Internal road / cabling
SU9/L4	1 stone artefact	Internal road / cabling
SU10/L1	1 stone artefact	Internal road / cabling
SU10/L2	2 stone artefacts in 300 sq m area	Collector substation
SU12/L1	4 stone artefacts in 400 sq m area	None anticipated
SU12/L2	2 stone artefacts in 50 sq m area	Adjacent internal road
SU13/L1	3 stone artefacts in 100 sq m area	Adjacent internal road
SU13/L2	c. 50 stone artefacts in 1,200 sq m area	Turbine PAD
SU13/L3	2 stone artefacts in 3 sq m area	Internal road / cabling
SU14/L1	1 stone artefact	None anticipated
SU14/L2	2 stone artefacts in 1 sq m area	Internal road / cabling
SU14/L3	1 stone artefact	Internal road / cabling
SU14/L4	14 stone artefacts in 1,375 sq m area	None anticipated
SU17/L1	3 stone artefacts in 8 sq m area	Adjacent internal road
SU17/L2	1 stone artefact	Turbine PAD
SU17/L3	1 stone artefact	None anticipated
SU18/L1	1 stone artefact	Transmission line
SU18/L2	4 stone artefacts in 20 sq m area	Transmission line

### 3 Roles and Responsibilities

Table 6 Roles and responsibilities.

Role	Responsibility
Principal Project Manager / Asset Manager	<ul style="list-style-type: none"> <li>• Responsible for delivery of the Project in accordance with this AHMP;</li> <li>• Review and approve Project design changes, and update Project Environment Officer and Project Community Officer;</li> <li>• Issue non-conformance notices and to issue actions to avoid or minimise potential environmental impacts, and failing the effectiveness of such steps, order cessation of a specific activity.</li> <li>• Ensure all personnel attend a site induction prior to commencing work;</li> <li>• Hold regular project team meetings; and</li> <li>• Support and attend Community Consultative Committee (CCC) meetings with the Project Community Officer.</li> </ul>
Project Environment Officer	<ul style="list-style-type: none"> <li>• Ensure site specific heritage requirements are fulfilled;</li> <li>• Ensure sub-contractors and agents comply with the EMS, management plans and programs;</li> <li>• Undertake internal environmental auditing and reporting;</li> <li>• Be the primary point of contact for regulatory agency liaison;</li> <li>• Oversee environmental/heritage monitoring; and</li> <li>• Report to the Principal Project Manager on environmental performance of the EPC and sub-contractors.</li> </ul>
Project Community Officer	<ul style="list-style-type: none"> <li>• Be the primary point of contact for community and liaison;</li> <li>• Ensure all staff and EPC contractors are aware of the community consultation requirements and complaints protocols;</li> <li>• Management of a Project complaints register;</li> <li>• Coordinate the CCC serving as the primary interface between the Project and that committee; and</li> <li>• Ensure the community is well informed of activities at the Project site, and activities which may affect the Community interests.</li> </ul>
Independent Environmental Auditor	<ul style="list-style-type: none"> <li>• Review the adequacy of the measures undertaken to deliver the Project in accordance with the EMS, management plans, programs, Development Consent and Commonwealth approval;</li> <li>• Request reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, direct that relevant actions be ceased immediately; and</li> <li>• Provide an audit report for the Secretary or Minister as relevant.</li> </ul>
EPC Project Manager	<ul style="list-style-type: none"> <li>• Overall responsibility for the performance of the EPC and its sub-contractors against the requirements of this plan and the conditions of the Development Consent and Commonwealth approval;</li> <li>• Develop the Risk Management Plan for construction, and maintain that plan throughout construction;</li> <li>• Consult with Principal Project Manager in relation to design plan changes;</li> </ul>

Role	Responsibility
	<ul style="list-style-type: none"> <li>• Provide the Project Environment Officer with detailed designs including mapping demarcating clearing boundaries;</li> <li>• Ensure all staff and sub-contractors complete a site environmental and heritage induction prior to commencing work on site;</li> <li>• Ensure adequate resources are available for all contractors and subcontractors to deliver the Project in compliance with the EMS and other relevant documents;</li> <li>• Hold regular project team meetings and toolbox talks, ensuring information is shared between all site personnel; and</li> <li>• Support and attend Community Consultative Committee (CCC) meetings at the request of the Principal Project Manager.</li> </ul>
<b>EPC Environmental Officer</b>	<ul style="list-style-type: none"> <li>• Avoidance of Aboriginal object locales through detailed design;</li> <li>• Identification and demarcation of the Aboriginal object locales which may be impacted by the final detailed design;</li> <li>• Responsible for implementing the mitigation measures identified by this plan and engaging the project archaeologist;</li> <li>• Monitoring of management measures, including maintenance of monitoring records and support of auditing;</li> <li>• Providing documentation required to comply with any heritage reporting requirements; and</li> <li>• Address any heritage incident, unexpected find or non-conformance, including notification of the Project Environment Officer immediately upon identifying the issue.</li> </ul>
<b>Project archaeologist</b>	<p>The project archaeologist will be engaged as required to deliver certain responsibilities of this plan:</p> <ul style="list-style-type: none"> <li>• Report directly to the EPC Environment Officer for all heritage matters and requirements of this plan.</li> <li>• Review the detailed designs to advise on avoidance and mitigation measures, including salvage and reburial requirements of this plan.</li> <li>• Submit any related Aboriginal Site forms to NSW OEH within 30 days of the reburial taking place.</li> <li>• Assess any unexpected finds in accordance with Section 4.4.</li> <li>• Lead the engagement with Registered Aboriginal Parties, and support dispute resolution in accordance with Section 4.6.</li> <li>• Review and support the development of the Aboriginal Heritage Induction (Section 4.7).</li> </ul>
<b>Registered Aboriginal Parties</b>	<ul style="list-style-type: none"> <li>• RAPS to review and advise in relation to the development of the AHMP;</li> <li>• RAPS to assist in salvage activities under direction of the project archaeologist;</li> <li>• RAPS to advise in regard to cultural significance and the development of management options, as required;</li> <li>• RAPS to assist in reburial of salvaged material.</li> </ul>
<b>All Employees and Contractors</b>	<ul style="list-style-type: none"> <li>• Complete a site induction prior to commencing works on site;</li> <li>• Attend all environmental training as required;</li> <li>• Comply with the specific controls in this EMS and associated plans;</li> </ul>

Role	Responsibility
	<ul style="list-style-type: none"><li>• <i>Undertake all activities in accordance with agreed procedures and work methods;</i></li><li>• <i>Implement the actions identified in their management plans and programs in order to comply with the Development Consent conditions; and</i></li><li>• <i>Follow instructions of the Project Environmental Officer.</i></li></ul>

## **4 Management Measures**

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The Project EMS requires environmental management plans and programs to be prepared relevant to the stage of the development to enable effective risk management, compliance with relevant statutory requirements, consistency with the relevant project documents and to meet environmental objectives and targets. This section of the plan provides the management measures that will be used to avoid and mitigate potential impacts of the Project on Aboriginal heritage.

The Project Environment Officer is responsible for maintaining this plan and making the plans available to staff and contractors. The EPC Environment Officer is responsible for implementing the plan during construction, including ensuring induction materials contain information to train and educate all contractors on site to understand the requirements and mitigation measures of this plan.

### **4.1 Objectives and Targets**

This AHMP aims to outline the appropriate responsibilities and actions that will be undertaken for the purposes of managing impacts to Aboriginal heritage and to comply with the conditions of Development Consent.

The AHMP describes:

- a) The procedures for the management of identified objects within the development site.
- b) The procedures to be followed if any unidentified objects and/or human remains are identified during the development works.
- c) The impact mitigation procedures to be followed.
- d) The process for how the AHMP procedures will be managed and adhered to during the construction and operation of the project.
- e) The process that will be followed for continuing consultation with the Aboriginal stakeholders and the NSW OEH, where required.

For the purposes of this AHMP, the activity is inclusive of all impacts relating to the wind farm, including but not limited to, the construction of roads, hardstands, laydown areas, substations, works compounds, batching plants, service facilities, temporary construction facilities and so on, the erection of wind turbines and the installation of electrical cabling, both overhead and underground.

Aboriginal objects in the form of stone artefacts were recorded in a number of locales across the development area. The majority of areas in which these have been recorded are predicted to contain additional stone artefacts which, because of ground cover (grasses etc), were undetectable during field survey. The construction of the wind farm project may therefore result in impacts to known stone artefact locales and undetected artefact distributions as described in respect of each Survey Unit (Dibden 2012).



Due to the high cultural significance of the Aboriginal heritage in the development area, a strategy of impact mitigation is required. Where feasible the Project will avoid and minimise impacts to ground surfaces containing heritage items, to ensure as little impact as possible to Aboriginal objects in the development corridor.

It is also culturally appropriate to salvage known artefacts from certain sites prior to commencing construction works on the site, as was requested by one of the RAPs (Murong Gialinga Aboriginal and Torres Strait Islander Corporation - MGATSIC) during the Environmental Assessment process. Accordingly, it is appropriate to implement practical measures that may be taken to protect and conserve Aboriginal objects in the development corridor.

#### **4.2 Avoidance Measures**

This AHMP has been prepared based on the Approved Project Infrastructure, including 57 available turbine locations and all infrastructure options presented in the EA. Prior to construction an EPC will be appointed, and the Project will undergo a detailed design process. The Detailed Design process will:

1. Confirm which of the turbine locations are to be constructed;
2. Identify the final micro-sited locations of those turbines;
3. Confirm the ancillary infrastructure to be used for the Project; and
4. Provide detailed civil and electrical designs for all infrastructure, including the clearance limits required during construction.

If there are design changes that fall outside the Survey Units inspected during the Dibden (2012) assessment (refer to Figures 2 to 4), assessment by an experienced and qualified archaeologist will be required so that adequate avoidance and mitigation measures can be proposed prior to construction. The detailed design will ensure that impacts to Aboriginal heritage locales is avoided where possible, and where it is unavoidable, mitigation measures will be implemented.

Aboriginal object locales shall also be considered at the end of the Project's operational life, during the Project decommissioning phase. During preparation of the Decommissioning and Rehabilitation Management Plan, prior to the commencement of decommissioning, avoidance of Aboriginal object locales will be adopted as the primary measure to reduce impacts. Where impacts cannot be avoided, mitigation measures will be implemented as described below, or as updated by subsequent reviews to this plan.

#### **4.3 Mitigation Measures**

Mitigation measures will be adopted where impacts to Aboriginal heritage locales cannot be avoided through design. Earthworks for construction should not take place in the immediate vicinity of any Aboriginal object/sites until this AHMP is finalised and endorsed by the DPE.

The location of Aboriginal object locales recorded during the EA are shown in Figures 2 to 4. Detailed maps clearly showing the area encompassed by each Aboriginal object locale are shown in Appendix 2.

Mitigation works need to be undertaken by the Proponent in certain Aboriginal object sites before construction work can commence in those areas, as listed in Table 7. It is recommended that a strategy of impact mitigation is implemented in regard to all sites expected to be impacted by the final Project layout. Prior to commencement of construction, the EPC Project Manager will identify the detailed design of the Project. Using the detailed design and the information in Table 7, the EPC Environment Officer, in consultation with the project archaeologist, will identify the Aboriginal object locales which have not been avoided through design, and therefore require mitigation.

The locations of any sites which will be avoided through design, and are therefore exempt from salvage, must be identified by the EPC Environmental Officer during the detailed design process. An exclusion zone must be defined where heritage locales occur within 20m of works, by installing temporary fencing and signage. Temporary Fencing be installed using suitable materials that will remain in place and be effective for the duration of construction activities.

The mitigation measures for the final design will be reviewed by the project archaeologist prior to implementation.

#### **Artefact Salvage**

A program of salvage (artefact collection from the ground surface) will be undertaken in certain locales (where impacts would occur) as a form of impact mitigation to off-set overall development impacts. This work would take place before construction impacts in those areas. The EPC Environment Officer, in consultation with the project archaeologist, is responsible for developing and implementing the salvage program, and the Project Environment Officer will facilitate communication between the EPC and the RAPs. A salvage program would need to be provided to the OEH and RAPs for review.

Members of the RAPs would need to be engaged to assist the archaeological team with salvage collection. RAPs should be given one months' notice in regard to the salvage program and should be invited to apply to work with the archaeological team. In the event that salvage works are required for unexpected finds there is no mandatory notice period, and RAPs will be engaged to support salvage works as soon as practical following the procedures in Section 4.4.

The salvage work would entail collection of artefacts from the ground surface in the relevant Aboriginal object locales. Ground disturbance for artefact collection is not required. The artefacts would be recorded, bagged and placed in a container in accordance with conventional archaeological practice (as per the OEH Code of Practice). That is, the material must be identified, packaged, labelled with reference to provenance, appropriately catalogued and packed securely. Aboriginal cultural material must be stored in a specified

location until it can be buried in country. A report must be produced to accompany the curated material. The report must be provided to the relevant RAPs within three (3) months of the salvage being completed.

The cultural material would be reburied within the project area. The RAPs will be consulted in relation to reburial procedures and locations. The archaeologist must complete and submit any related Aboriginal Site forms to NSW OEH within 30 days of the reburial taking place.

It is noted here, that monitoring by RAPS during construction is not a requirement and is explicitly not recommended in respect of the project.

#### *Design Changes*

Design changes will be provided to the project archaeologist for review to ensure that if the layout changes and impacts are proposed to any Aboriginal object sites which are currently outside of the impacted area (i.e. exempt from salvage), an amendment to Table 7 may be required and impact mitigation strategies may need to be implemented. Sites which are identified as exempt by the project archaeologist, will not be salvaged.

*Table 7 Management and mitigation strategies for Aboriginal object locales in the Development Corridor.*

<b>ID</b>	<b>Contents</b>	<b>Likely Impacts</b>	<b>Management and Mitigation</b>
SU1/L1	3 stone artefacts in 625 sq m area	Internal road	Salvage stone artefacts
SU1/L2	4 stone artefacts in 400 sq m area	Internal road	Salvage stone artefacts
SU2/L1	c. 50 stone artefacts in 21,000 sq m area	Internal road	Salvage stone artefacts
SU3/L1	2 stone artefacts in 400 sq m area	Internal road	Salvage stone artefacts
SU3/L2	3 stone artefacts in 400 sq m area	nil	Protect artefacts with temporary fencing, if considered necessary
SU3/L3	2 stone artefacts in 50 sq m area	Adjacent internal road	Salvage stone artefacts
SU3/L4	4 stone artefacts in 105 sq m area	Internal road	Salvage stone artefacts
SU3/L5	3 stone artefacts in 8 sq m area	Internal road	Salvage stone artefacts
SU4/L1	3 stone artefacts in 4 sq m area	Internal road	Salvage stone artefacts
SU4/L2	4 stone artefacts in 900 sq m area	Internal road	Salvage stone artefacts
SU4/L3	1 stone artefact	Internal road	Salvage stone artefacts
SU5/L1	3 stone artefacts in 12 sq m area	Internal road	Salvage stone artefacts
SU6/L1	6 stone artefacts in 225 sq m area	Adjacent internal road	Salvage stone artefacts
SU6/L2	3 stone artefacts in 200 sq m area	Adjacent internal road	Salvage stone artefacts
SU6/L3	10 stone artefacts in 75 sq m area	Internal road	Salvage stone artefacts
SU6/L4	8 stone artefacts in 2400 sq m area	Internal road	Salvage stone artefacts
SU6/L5	2 stone artefacts in 300 sq m area	Nil	Protect area with temporary fencing, if considered necessary
SU7/L1	1 stone artefact	Internal road	Salvage stone artefacts
SU7/L2	7 stone artefacts in 1,600 sq m area	Adjacent internal road	Salvage stone artefacts
SU7/L3	5 stone artefacts in 100 sq m area	Adjacent internal road	Salvage stone artefacts
SU7/L4	13 stone artefacts in 600 sq m area	Adjacent internal road	Salvage stone artefacts
SU7/L5	2 stone artefacts in 8 sq m area	Nil	Protect area with temporary fencing, if considered necessary
SU7/L6	1 stone artefact	Internal road	Salvage stone artefacts

<b>ID</b>	<b>Contents</b>	<b>Likely Impacts</b>	<b>Management and Mitigation</b>
SU8/L1	1 stone artefact	Nil	Protect area with temporary fencing
SU8/L2	1 stone artefact	Nil	Protect area with temporary fencing
SU9/L1	1 stone artefact	Adjacent internal road	Salvage stone artefacts
SU9/L2	1 stone artefact	Adjacent internal road	Salvage stone artefacts
SU9/L3	1 stone artefact	Internal road	Salvage stone artefacts
SU9/L4	1 stone artefact	Internal road	Salvage stone artefacts
SU10/L1	1 stone artefact	Internal road	Salvage stone artefacts
SU10/L2	2 stone artefacts in 300 sq m area	Collector substation	Salvage stone artefacts
SU12/L1	4 stone artefacts in 400 sq m area	Nil	Protect area with temporary fencing, if considered necessary
SU12/L2	2 stone artefacts in 50 sq m area	Adjacent internal road	Salvage stone artefacts
SU13/L1	3 stone artefacts in 100 sq m area	Adjacent internal road	Salvage stone artefacts
SU13/L2	c. 50 stone artefacts in 1,200 sq m area	Turbine PAD	Salvage stone artefacts
SU13/L3	2 stone artefacts in 3 sq m area	Internal road	Salvage stone artefacts
SU14/L1	1 stone artefact	Nil	Protect area with temporary fencing, if considered necessary
SU14/L2	2 stone artefacts in 1 sq m area	Internal road	Salvage stone artefacts
SU14/L3	1 stone artefact	Internal road	Salvage stone artefacts
SU14/L4	14 stone artefacts in 1,375 sq m area	Nil	Protect area with temporary fencing, if considered necessary
SU17/L1	3 stone artefacts in 8 sq m area	Adjacent internal road	Salvage stone artefacts
SU17/L2	1 stone artefact	Turbine PAD	Salvage stone artefacts
SU17/L3	1 stone artefact	Nil	Protect area with temporary fencing, if considered necessary
SU18/L1	1 stone artefact	Transmission line	Salvage stone artefacts
SU18/L2	4 stone artefacts in 20 sq m area	Transmission line	Salvage stone artefacts

#### 4.4 Unexpected Finds

In the unlikely event that unexpected Aboriginal objects or values are encountered during construction, the following steps should be followed:

- The person who identified the Aboriginal objects or values must immediately notify the person in charge of the activity and refer the matter to the EPC Environmental Officer.
- All construction that could potentially harm the Aboriginal objects or values must cease (including stopping all construction within 20 m).
  - Works may continue outside of the minimum 20 m barrier.
  - Works required to comply with occupational and environmental health and safety standards and/or to protect the cultural heritage, may continue.
- The EPC Environmental Officer shall contact an experienced and qualified archaeologist (i.e. the project archaeologist) so that an assessment can be made.
- Within five (5) working days the archaeologist must be engaged to:
  - record and detail the location and context of the Aboriginal objects; and
  - assess the cultural or scientific values of the objects in accordance with the methodology used in the Environmental Assessment.

##### *Low Significance*

Sites considered to be of low significance (e.g. isolated artefacts or disperse/small artefact scatters less than three artefacts, eroding earth features, items typically identified of low cultural value) and where avoidance is impossible, no further mitigation is required. The results of the assessment shall be documented by the project archaeologist, recorded by the EPC Environmental Officer and reported internally and in the annual reports (see Sections 6.1, 6.3 and 6.4).

##### *Moderate and High Significance*

If the Project Archaeologist determines that Aboriginal objects or values potentially of moderate or high significance, it is preferable to avoid impact if possible. Where avoidance is possible, An exclusion zone must be defined where heritage locales occur within 20m of works, by installing temporary fencing and signage (as per Section 4.3). The results of the assessment shall be documented by the project archaeologist, recorded by the EPC Environmental Officer and reported internally and in the annual reports (see Sections 6.1, 6.3 and 6.4).

Where avoidance is not possible, the discovery must be reported to the OEH and RAPs as soon as practicable after being assessed by the project archaeologist, to determine whether salvage works are required. The archaeologist must facilitate the involvement of any relevant RAPs in salvage works as soon as practical to avoid construction delays and develop a suitable methodology for salvage excavation in consultation with the RAPs. Curation, storage, reburial and reporting requirements for salvage are identified in Section 4.3. The proponent will be responsible for the costs associated with the assessment, cataloguing, labelling and packaging of this cultural heritage material.

Additionally, for unexpected finds, the location and context of the cultural heritage material must be recorded in detail and an Aboriginal Site Impact Recording Form completed and submitted to NSW OEH within four (4) months from the end of salvage excavations.

Work may re-commence within the area of exclusion once the salvage works have been undertaken, or where all parties (the proponent, OEH and RAPs) agree there is no other prudent or feasible course of action. Failure of parties to reach an agreed course of action will be classed as a *dispute* under this agreement. Principles and procedures relating to dispute resolution are detailed in Section 4.6.

#### **4.5 Discovery of Human Remains**

Should suspected human remains be encountered, the following process should be adhered to:

- Do not further disturb or move the remains;
- Immediately cease work in the vicinity and cordon area off;
- Notify the NSW Police;
- Notify the project archaeologist and the NSW OEH Environment Line on 131 555 as soon as practicable and provide available details of the remains and their location; and
- Do not re-commence work in the area unless authorised in writing by NSW OEH.

#### **4.6 Dispute Resolution**

Where a dispute between a RAP /or RAPs and the proponent occurs, the dispute must be jointly investigated.

- Only issues directly related to cultural heritage management will be handled through the following dispute resolution mechanism.
- The RAP must contact the Project Community Officer (via email or phone) if they wish to raise a dispute. Contact details for the Project will be available on the Project website prior to the commencement of construction.
- The relevant RAP and the proponent must nominate delegates to attempt to negotiate a resolution to the dispute.
- The delegates will attempt resolution within five (5) business days of a notice being issued by either party that a dispute is deemed to exist. Within this time, they may meet/consult with other delegates from either party and the project archaeologist.
- An extension to the five (5) days may be made, but must be agreed to by both the proponent and the relevant RAP.
- Advice in regard to resolution of a dispute may need to be sought from the NSW Department of Planning and Environment and any advice received should be accepted by both parties.

#### **4.7 Aboriginal Heritage Induction**

In order for site workers and contractors to be able to know what processes to follow in regard to this AHMP, the EPC Environment Officer will prepare induction training material in consultation with the project archaeologist. The induction will be provided to all contractors and subcontractors by the EPC Project Manager or the EPC Environment Officer.

The induction materials will include:

- Familiarisation with this AHMP;
- Process for the identification Aboriginal objects and skeletal material;
- Aboriginal cultural awareness; and
- The AHMP procedures to be followed during the operational life of the project.

Induction records will be maintained to demonstrate compliance with the requirements of this AHMP, and records will include:

- Who was trained;
- When training occurred;
- Name and relevant details of trainer; and
- Description of training content.



## **5 Monitoring**

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### **5.1 Construction Environmental Monitoring**

Monitoring of heritage mitigation measures will be undertaken to record the effectiveness of control measures and inform adaptive management of the environmental management plans and programs.

At a minimum, monitoring required under this plan to be undertaken by the EPC Environment Officer during the construction phase will include:

- Prior to earthworks:
  - Ensure that Aboriginal object locales that are not salvaged have been demarcated have been clearly identified and demarcated as required.
  - Ensure that salvage works in work zones have been completed prior to works in that area.
- Post earthworks:
  - Ensure that demarcated areas for protection of Aboriginal object locales have not been disturbed.
- Daily inspection of any fences around Aboriginal object locales in active work zones.

### **5.2 Monitoring Records**

Results of monitoring will be recorded by the EPC Environment Officer and the Project Environment Officer as part of inspection checklists that will include as a minimum:

- date of inspection;
- personnel undertaking the inspection;
- features to be inspected/monitored;
- outcomes of the inspection and details of compliance with objectives;
- requirement for any corrective actions; and
- details of any photographic records (file name and saved location) detailing evidence of monitoring.

Results of all monitoring will be maintained at the Project office for supply to relevant agencies upon request.

### **5.3 Auditing**

The construction work will be subject to regular (i.e. quarterly) internal audits by the Project Environment Officer to evaluate the EPC performance. Scheduled auditing will also be undertaken by an Independent Environmental Auditor within one year of the commencement of construction and every three years thereafter, in accordance with Schedule 5, Condition 8 of the Development Consent. The requirements for audits are identified in the EMS. Unscheduled auditing may also be undertaken by NSW DPE and the Commonwealth Department of the Environment and Energy at any stage to evaluate the Project's compliance.

The EPC Environment Officer will support the Project Environment Officer in providing all records and documentation required to demonstrate compliance with this document, the Development Consent and the Commonwealth approval.

## **6 Reporting & Documentation Requirements**

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### **6.1 Internal Reporting**

The EPC Environment Officer will provide weekly reporting to the Project Environment Officer during the construction phase. Weekly reporting will:

- detail any areas which have been subject to salvage works;
- identify any unexpected archaeological finds which have been encountered during construction activities;
- results of monitoring identified in Section 5; and
- details of heritage inductions provided.

All site inspection and monitoring records are to be retained onsite for the duration of construction works and will be produced as required for auditing purposes.

### **6.2 Reporting Incidents**

For the purposes of this AHMP, an incident is defined as:

- Impacts to any Aboriginal object locales which have not been salvaged prior to the commencement of works, whether previously identified or unexpected finds; and
- Identification of any human skeletal remains.

In accordance with Schedule 5, Condition 6 of the Development Consent, the Project Environment Officer shall immediately notify the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant shall notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

The EPC Environment Officer is responsible for notifying the Project Environment Officer for of any incident that has caused, or threatens to cause, material harm to the environment as a result of the EPC operations. The EPC Environment Officer must provide the Project Environment Officer with all records and documentation to support the immediate notification of the Secretary and any other relevant agencies as required under Condition 6 of Schedule 5 of the Development Consent.

### **6.3 Annual Reporting**

The Project Environment Officer will prepare an annual report describing heritage performance of the Project against this plan and the conditions of the Development Consent. The reports will include the results of monitoring undertaken in accordance with Chapter 5. Reporting will be made available to the public within three months of each 12 month anniversary of commencement of construction, on the Project website, in accordance with Condition 7 of Schedule 5 of the Development Consent and Condition 10 of EPBC Approval 2011/6206.

The EPC Environment Officer must provide the Project Environment Officer with all records and documentation to support preparation of the annual report. The Project Environment Officer will provide evidence of the date of publication to the NSW DPE Secretary and the Commonwealth Department at the same time as the annual report is published.

### **6.4 Record Keeping**

Records of all heritage activities will be maintained by the EPC Environment Officer and the Project Environment Officer to demonstrate compliance with this plan, the Development Consent and the Commonwealth approval. These records will be made available to the Independent Environmental Auditor, NSW DPE and Commonwealth Department upon request.

## **7 Review**

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The Project Environment Officer will be responsible for reviewing this plan within five years of the commencement of construction, and every five years thereafter. The plan may also be required to be reviewed in response to the occurrence of an incident, the submission of an audit report, or modification to the conditions of the Development Consent, in accordance with Condition 4 of Schedule 5 of the Development Consent. Review of the plan will be undertaken in consultation with the NSW OEH, RAPs and DPE. Updates to the plan will be made available on the Project website.

## References

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Dibden, J. 2012 *Proposed Crudine Ridge Wind Farm European and Aboriginal Cultural Heritage Assessment Report. A report to Crudine Ridge Wind Farm Pty Ltd.*

## Appendix A

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### Contact details for the Registered Aboriginal Parties

Bathurst Local Aboriginal Land Council	Sir/Madam	149 Russell Street	Bathurst	<a href="mailto:bathlalc2@bigpond.com">bathlalc2@bigpond.com</a>
Mudgee Local Aboriginal Land Council	Sir/Madam	PO Box 1098	Mudgee	<a href="mailto:mudgeelalc@bigpond.com">mudgeelalc@bigpond.com</a>
Orange Local Aboriginal Land Council	Sir/Madam	42 Dalton Street	Orange	<a href="mailto:olalc2@olalc.ngo.org.au">olalc2@olalc.ngo.org.au</a>
Mingaan Aboriginal Corporation	c/o Teitzel & Partners	PO Box 1151,	MANLY	No contact details available
Murong Gialinga Aboriginal & Torres Strait Islander Corporation	MS Debbie Foley	PO Box 1097	Mudgee	<a href="mailto:dfoley2850@hotmail.com">dfoley2850@hotmail.com</a>
Warrabinga Native Title Claimants Aboriginal Corporation	Sir/Madam	PO Box 771	PICTON	<a href="mailto:info@warrabinga.com.au">info@warrabinga.com.au</a>
Wellington Valley Wiradjuri Aboriginal Corporation	Sir/Madam	PO Box 508	Wellington	<a href="mailto:WVWAC@hotmail.com">WVWAC@hotmail.com</a>
North East Wiradjuri Company Ltd	Ms. Lyn Syme	PO Box 29	Kandos	
Bill Allen North East Wiradjuri	c/o Teitzel & Partners	PO Box 1151,	MANLY	No contact details available
Brett and Tim Lucas Wiradjuri People of Bathurst/Lithgow/Mudgee	c/o Teitzel & Partners	PO Box 1151,	MANLY	No contact details available
Josh and Boris Simpson Wiray-dyuraa Maying-gu Native Title Claim Group	c/o Teitzel & Partners	PO Box 1151,	MANLY	No contact details available
Wiray-dyuraa Ngumbaay-dyil Native Title Claim Group	c/o Teitzel & Partners	PO Box 1151,	MANLY	No contact details available
NEWCO	c/o Teitzel & Partners	PO Box 1151,	MANLY	No contact details available
Binjang Wellington Wiragjuri Heritage Survey	Dorothy Stewart	60 Myall Street	Dubbo	<a href="mailto:jamigray66@gmail.com">jamigray66@gmail.com</a>

## Appendix B: Aboriginal Object Locales

Aboriginal object locale ID: CRWF Survey Unit 1/Locale 1 (CRWF SU1/L1)

Grid reference(GDA): Zone 55: E743920 N6344335

Description: This artefact locale is situated in Survey Unit 1, on a crest of a broad, undulating plateau landform, and is located close to the south end of the proposed activity area. The aspect is open and gradient is very gentle (0-3°). The site is in a cleared paddock (with scattered trees) used for sheep grazing. Three stone artefacts were recorded in an area measuring approximately 25 x 25 metres (625 sq m):

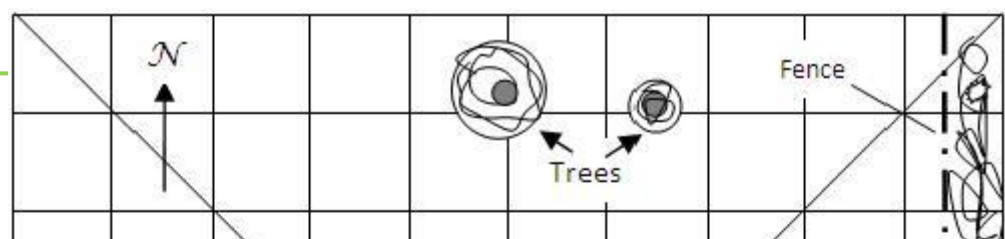
- Tuff flaked piece: 72mm x 50mm x 13mm;
- Tuff flaked piece: 51mm x 40mm x 15mm;
- Tuff broken flake; distal with hinge termination: 40mm x 28mm x 6mm.

Photograph: 19<sup>th</sup> September 2011; CRWF SU1/L1 taken facing to 180°.



CRWF SU1/L1

AHMP







Aboriginal object locale ID: CRWF Survey Unit 1/Locale 2 (CRWF SU1/L2)

Grid reference(GDA): Zone 55: E743895 N6344227

Description: This locale is situated in Survey Unit 1, on a crest of a broad, undulating plateau landform, and is located close to the south end of the proposed activity area. The aspect is open and gradient is very gentle (0-3°). The site is in a cleared paddock (with a Bidy Bush infestation) used for sheep grazing. Four stone artefacts were recorded in an area measuring approximately 20 x 20 metres (400 sq m):

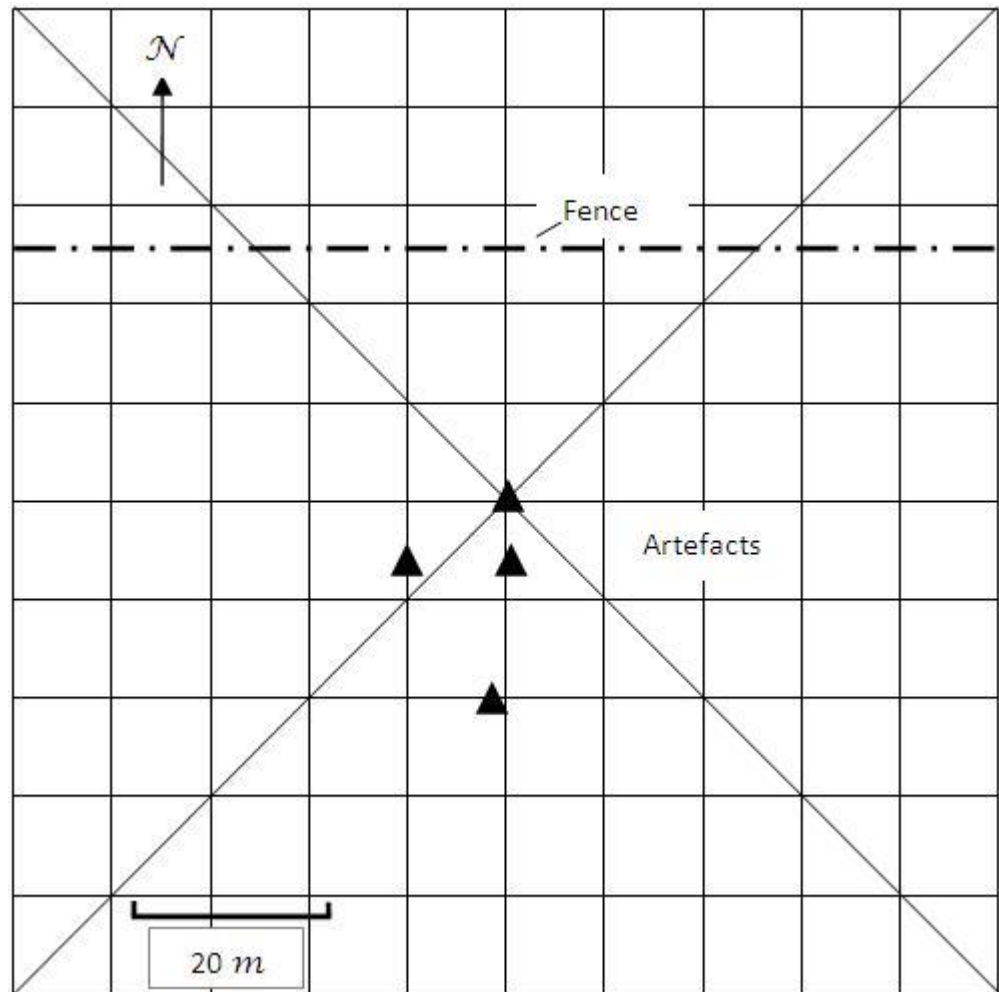
- Tuff broken flake; long. break: 62mm x 29mm x 11mm;
- Tuff broken flake; medial: 26mm x 25mm x 9mm;
- Tuff flake: 22mm x 30mm x 11mm;
- Quartzite core - amorphous: 60mm x 48mm x 40mm.

Photograph: 19<sup>th</sup> September 2011; CRWF SU1/L2 taken facing to 180°.





CRWF SU1/L2



Aboriginal object locale ID: CRWF Survey Unit 2/Locale 1 (CRWF SU2/L1)

Grid reference(GDA): Zone 55: north end: E743615 N6343565;  
south end: E743547 N6343303

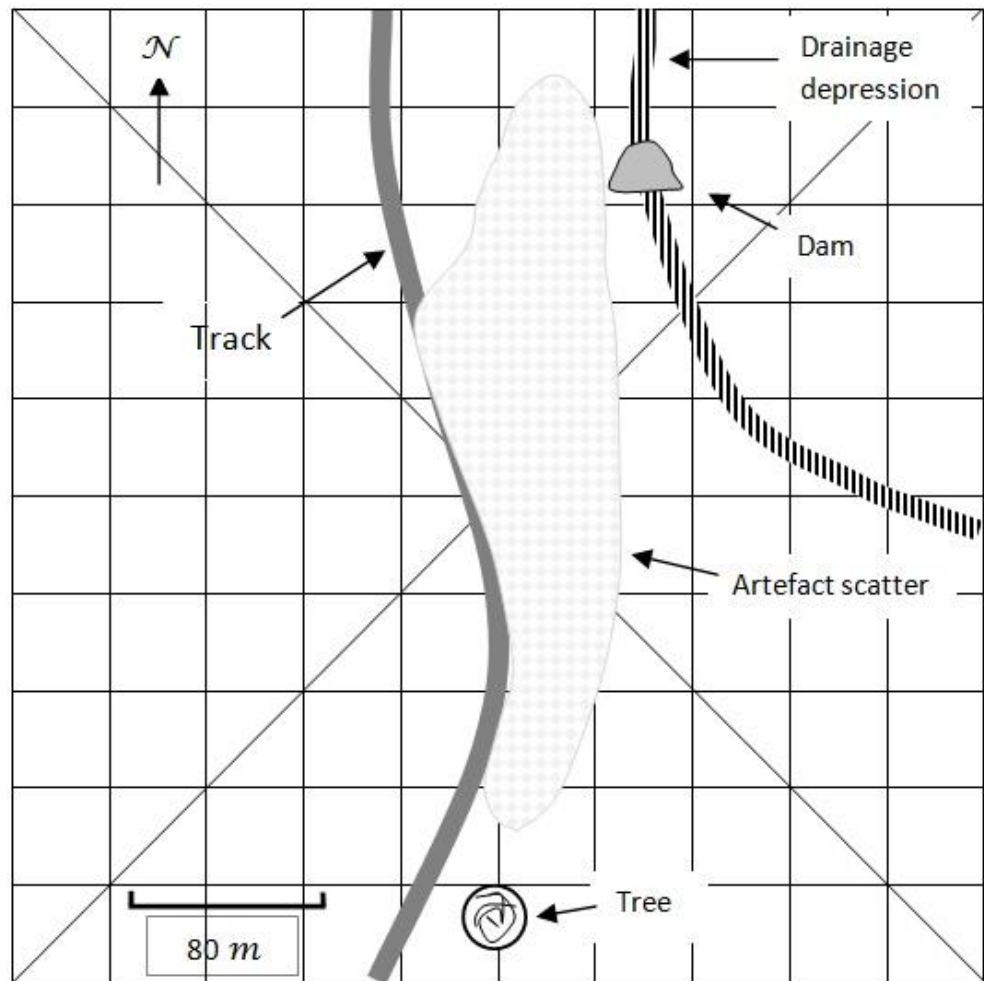
Description: This locale is situated in Survey Unit 2, a broad, undulating plateau landform, and is located close to the south end of the proposed activity area. Artefacts in this locale are on a crest and simple slope that falls to the east into a 1<sup>st</sup> order drainage line. The gradient is gentle (2-5°). Stone artefacts were recorded in an area measuring approximately 300 x 70 metres (21,000 sq m). Stone artefacts are distributed across the area in a very low density continuum. The majority are flakes and flake fragments made of tuff. A sample of artefacts is listed below:

- Tuff flake: 44mm x 30mm x 10mm;
- Tuff flaked piece: 60mm x 14mm x 12mm;
- Quartz (milky) flake: 35mm x 12mm x 7mm;
- Quartz (milky) bipolar core: 35mm x 28mm x 25mm;
- Tuff core fragment: 45mm x 52mm x 20mm.

Photograph: 19<sup>th</sup> September 2011; North end of CRWF SU2/L1; facing to 180°.



CRWF SU2/L1



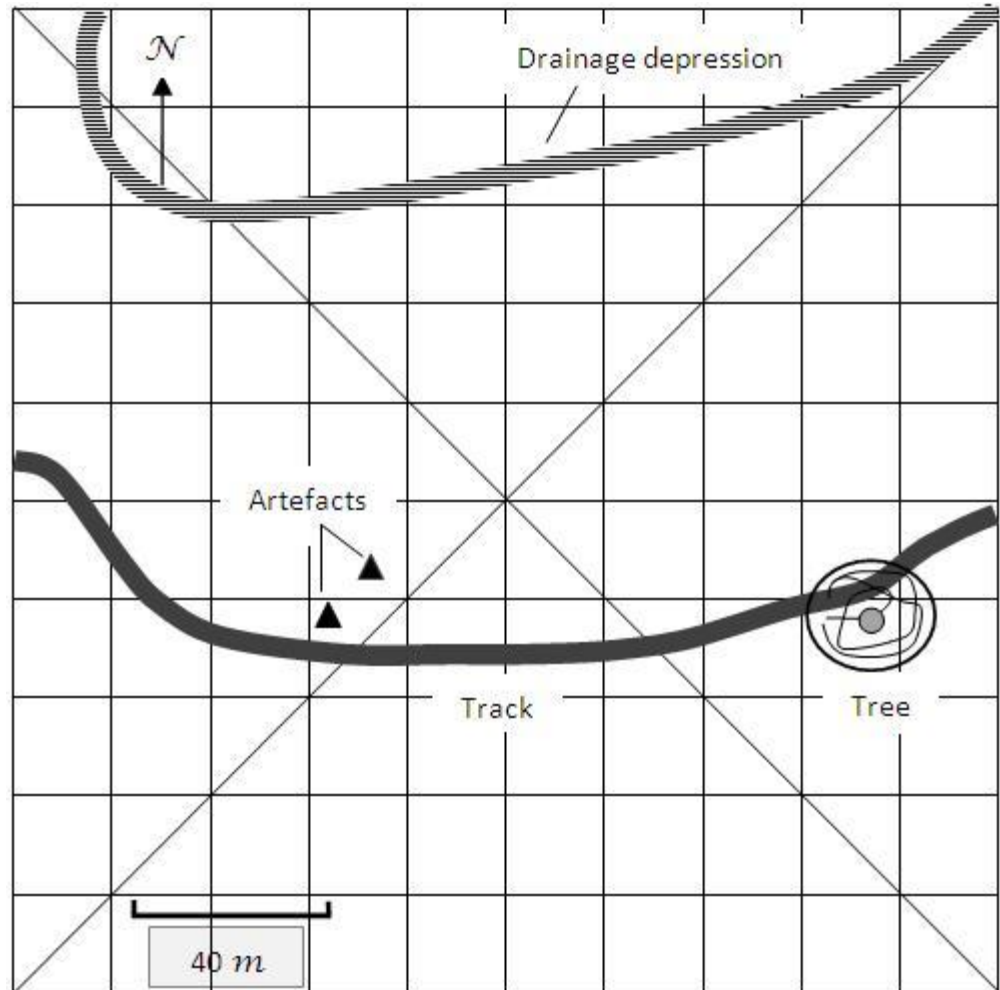
Aboriginal object locale ID: CRWF Survey Unit 3/Locale 1 (CRWF SU3/L1)  
Grid reference(GDA): Zone 55: E743944 N6344890  
Description: This locale is situated in Survey Unit 3, a broad, undulating plateau landform. The aspect is to the north and gradient is gentle (4°). The site is in a cleared paddock used for sheep grazing. Two stone artefacts were recorded in an area measuring approximately 20 x 20 metres (400 sq m):

- Tuff core fragment; 3 neg. scars: 45mm x 35mm x 25mm;
- Tuff core fragment; 7 microblade scars: 45mm x 32mm x 30mm.

Photograph: 19<sup>th</sup> September 2011; CRWF SU3/L1 taken facing to 270°.



CRWF SU3/L1





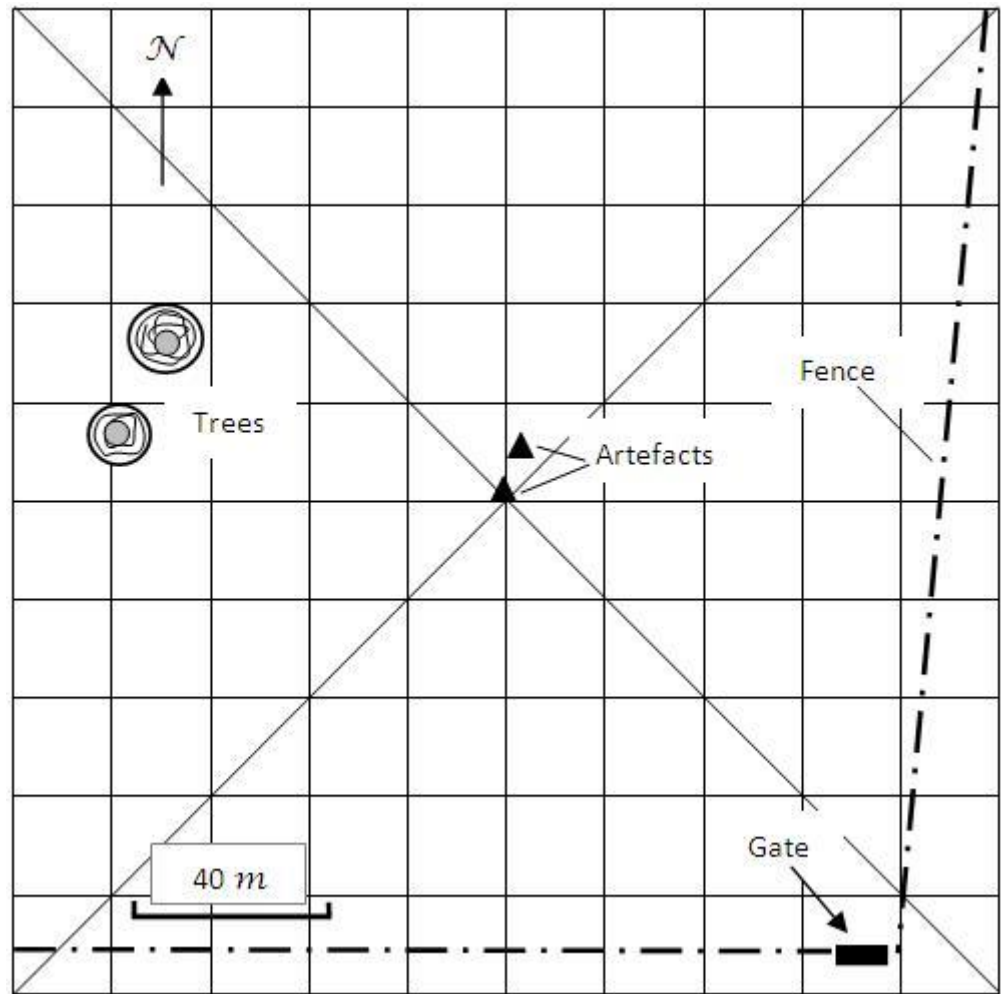
Aboriginal object locale ID: CRWF Survey Unit 3/Locale 2 (CRWF SU3/L2)  
Grid reference(GDA): Zone 55: E743718 N6344986  
Description: This locale is situated in Survey Unit 3, on a crest of a broad, undulating plateau landform. The aspect is open and gradient is very gentle (0-1°). The site is in a cleared paddock used for sheep grazing. Three stone artefacts were recorded in an area measuring approximately 20 x 20 metres (400 sq m):

- Tuff flaked piece: 34mm x 27mm x 18mm;
- Tuff flaked piece: 35mm x 26mm x 14mm;
- ?Chert core fragment: 36mm x 20mm x 15mm.

Photograph: 19<sup>th</sup> September 2011; CRWF SU3/L2 taken facing to north.



CRWF SU3/L2



Aboriginal object locale ID: CRWF Survey Unit 3/Locale 3 (CRWF SU3/L3)  
Grid reference(GDA): Zone 55: E743303 N6344743  
Description: This locale is situated in Survey Unit 3, on a crest on a broad, undulating plateau landform. The aspect is westerly and gradient is gentle (3°). The site is in a cleared paddock used for sheep grazing. Two stone artefacts were recorded in an area measuring approximately 10 x 5 metres (50 sq m):

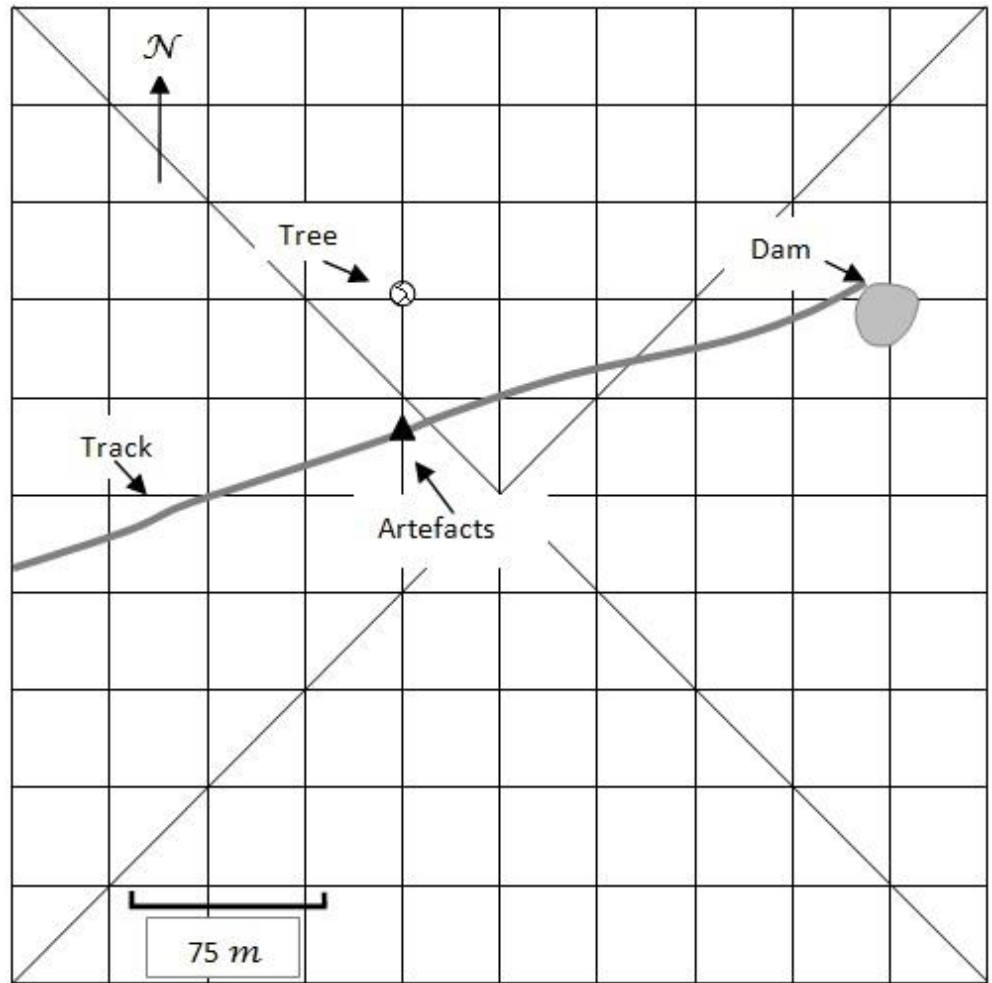
- Tuff flaked piece: 29mm x 26mm x 18mm;
- Tuff flaked piece: 38mm x 31mm x 16mm.

Photograph: 21<sup>st</sup> September 2011; CRWF SU3/L3 taken facing to 240°.





CRWF SU3/L3



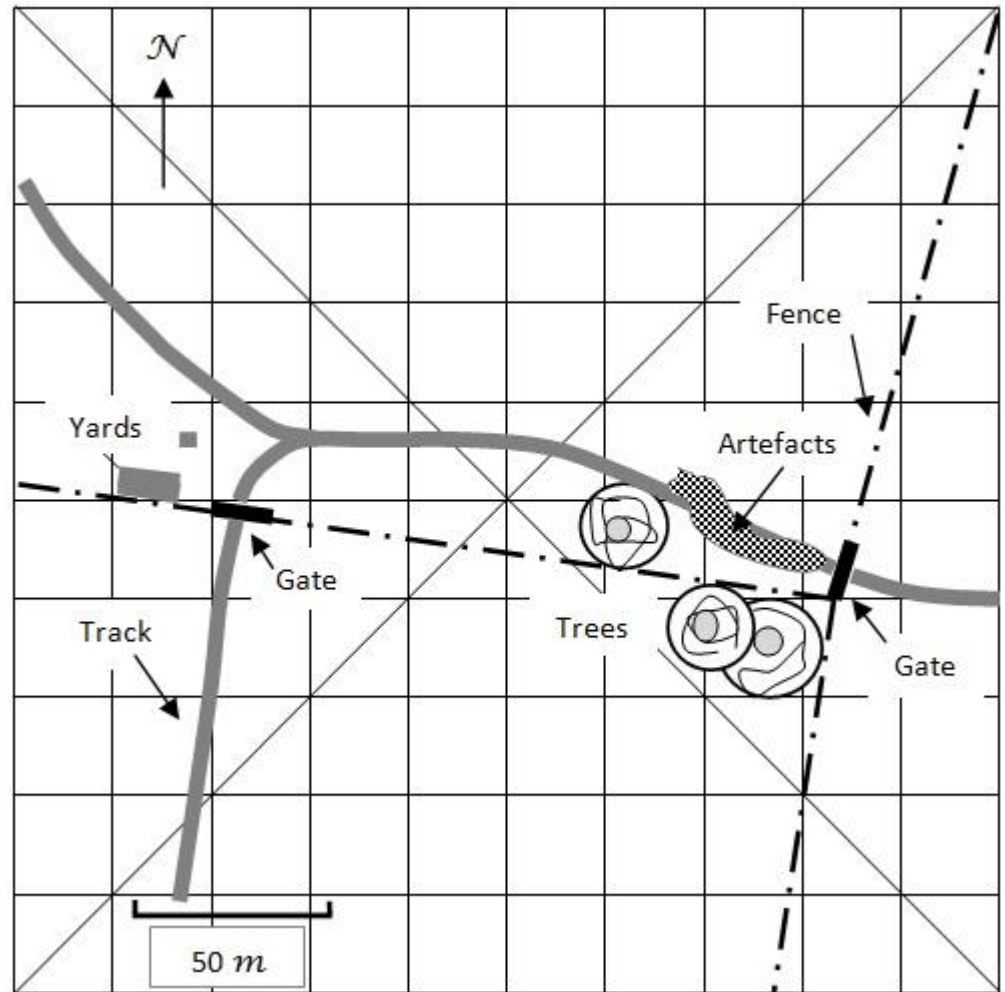
Aboriginal object locale ID: CRWF Survey Unit 3/Locale 4 (CRWF SU3/L4)  
Grid reference(GDA): Zone 55: E743032 N6344681 (west end)  
Description: This locale is situated in Survey Unit 3, on a lower, simple slope on a broad, undulating plateau landform. The aspect is north-westerly and gradient is very gentle (1°). The site is in a cleared paddock used for sheep grazing. Four stone artefacts were recorded in an area measuring approximately 35 x 3 metres (105 sq m) along an existing track:

- Tuff flaked piece: 32mm x 27mm x 13mm;
- Tuff flaked piece: 32mm x 21mm x 6mm;
- Quartz (milky) flake fragment: 12mm x 5mm x 3mm;
- Tuff flaked piece; 29mm x 22mm x 8mm.

Photograph: 21<sup>st</sup> September 2011; CRWF SU3/L4 taken facing to 280°.



CRWF SU3/L4



Aboriginal object locale ID: CRWF Survey Unit 3/Locale 5 (CRWF SU3/L5)  
Grid reference(GDA): Zone 55: E742930 N6344713  
Description: This locale is situated in Survey Unit 3, on a basal simple slope on a broad, undulating plateau landform. The aspect is northerly and gradient is very gentle (1°). The site is a cleared paddock used for sheep grazing. Three stone artefacts were recorded in an area measuring approximately 4 x 2 metres (8 sq m):

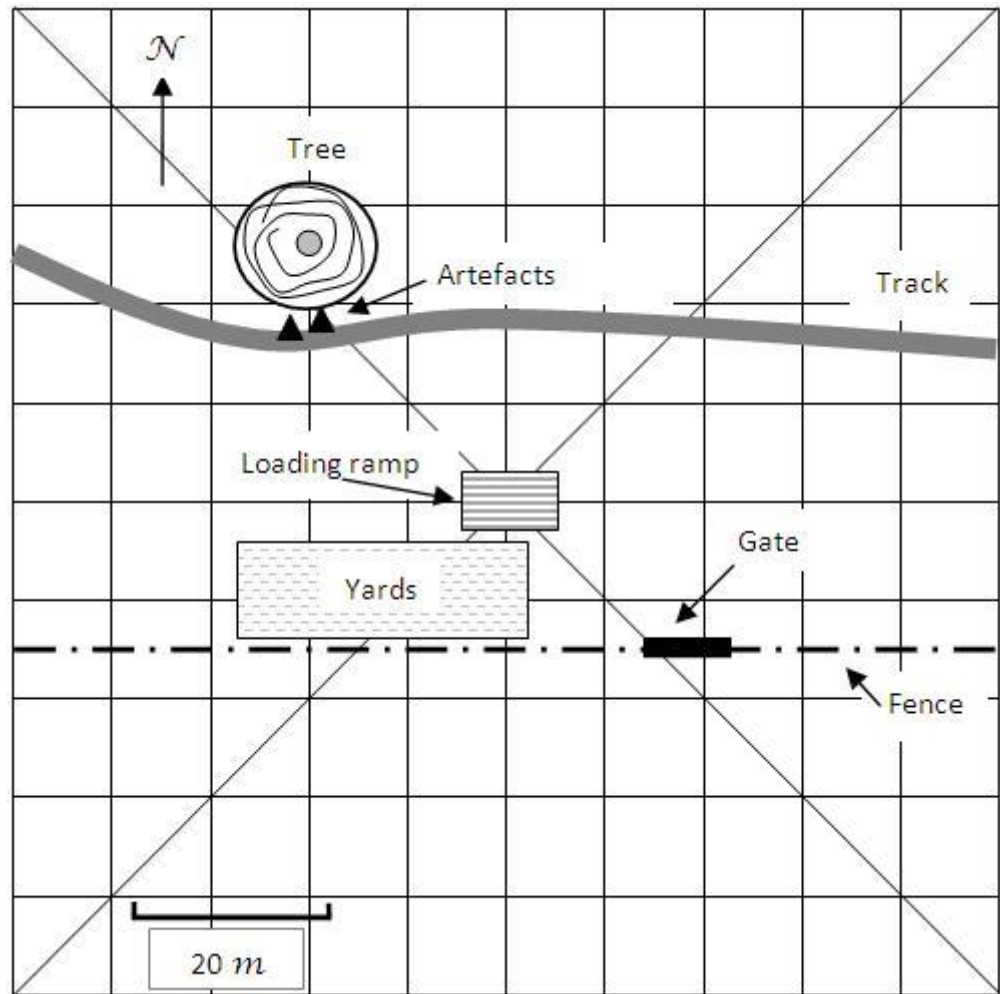
- Quartz flake fragment; 30mm x 15mm x 8mm;
- Tuff flaked piece: 75mm x 72mm x 24mm;
- Tuff flaked piece: 45mm x 25mm x 19mm.

Photograph: 21<sup>st</sup> September 2011; CRWF SU3/L5 taken facing to 280°.





CRWF SU3/L5



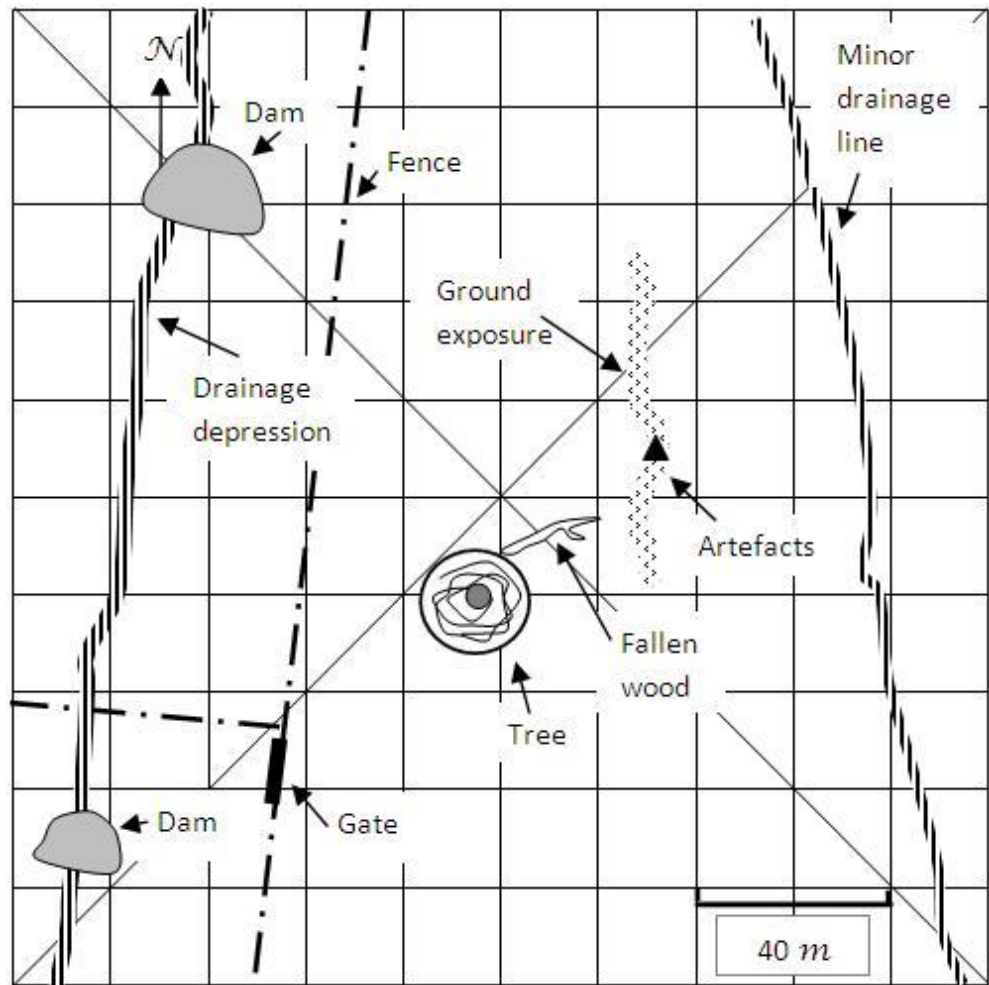
Aboriginal object locale ID: CRWF Survey Unit 4/Locale 1 (CRWF SU4/L1)  
Grid reference(GDA): Zone 55: E742809 N6344220  
Description: This locale is situated in Survey Unit 4, on a simple slope of a broad, undulating plateau landform. The aspect is northerly and gradient is gentle (3°). The site is in a cleared paddock used for sheep grazing. Three stone artefacts were recorded in an area measuring approximately 2 x 2 metres (4 sq m):

- Tuff flake: 29mm x 18mm x 8mm;
- Tuff flaked piece: 26mm x 16mm x 10mm;
- Tuff flake: 17mm x 12mm x 7mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU4/L1 taken facing to 170°.



CRWF SU4/L1



Aboriginal object locale ID: CRWF Survey Unit 4/Locale 2 (CRWF SU4/L2)  
Grid reference(GDA): Zone 55: E742812 N6344095 (NW end)  
Description: This locale is situated in Survey Unit 4, on a simple slope of a broad, undulating plateau landform. The aspect is northerly and gradient is gentle (3°). The site is in a cleared paddock used for sheep grazing. Four stone artefacts were recorded in an area measuring approximately 30 x 30 metres (900 sq m):

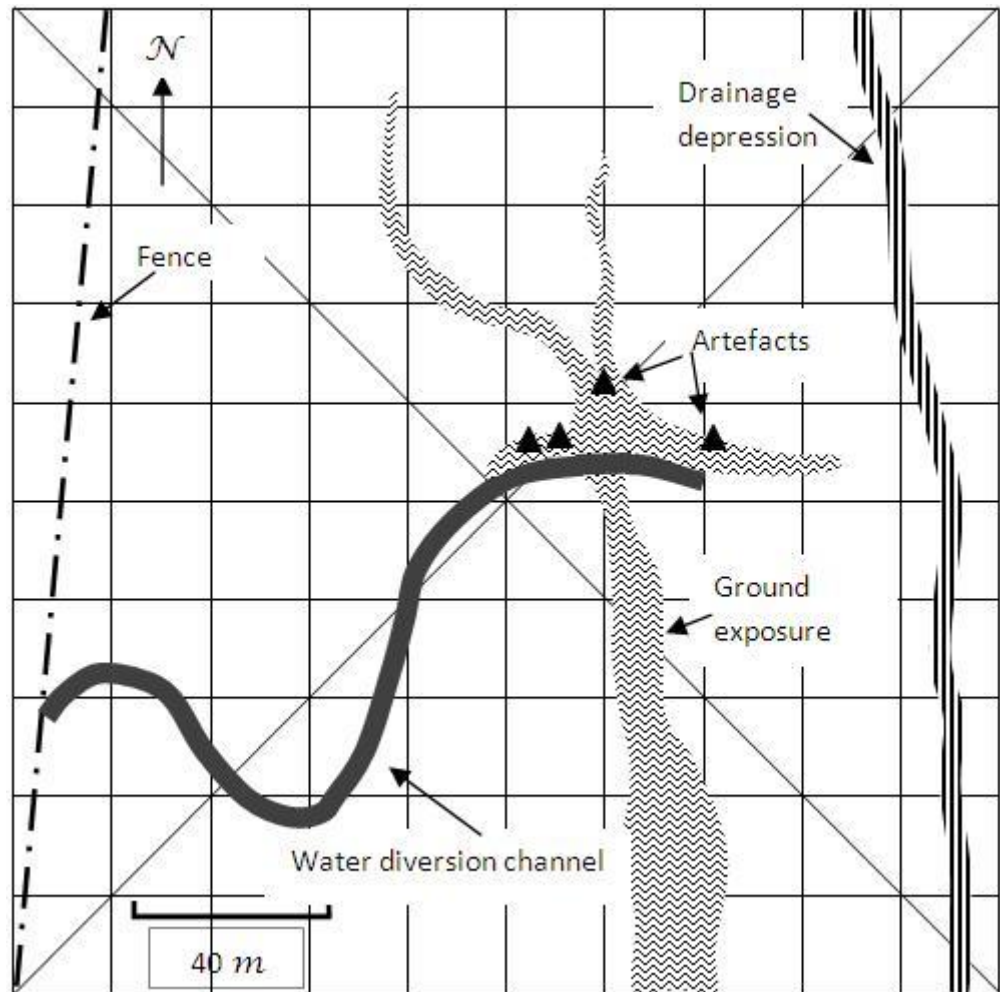
- Tuff flaked piece; 23mm x 13mm x 6mm;
- Tuff flake portion: medial; 12mm x 9mm x 4mm;
- Tuff flaked piece; 19mm x 9mm x 9mm;
- Tuff broken retouched artefact; retouched from ventral; proximal portion of a *Bondi point*; 19mm x 8mm x 4mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU4/L2 taken facing to 150°.





CRWF SU4/L2

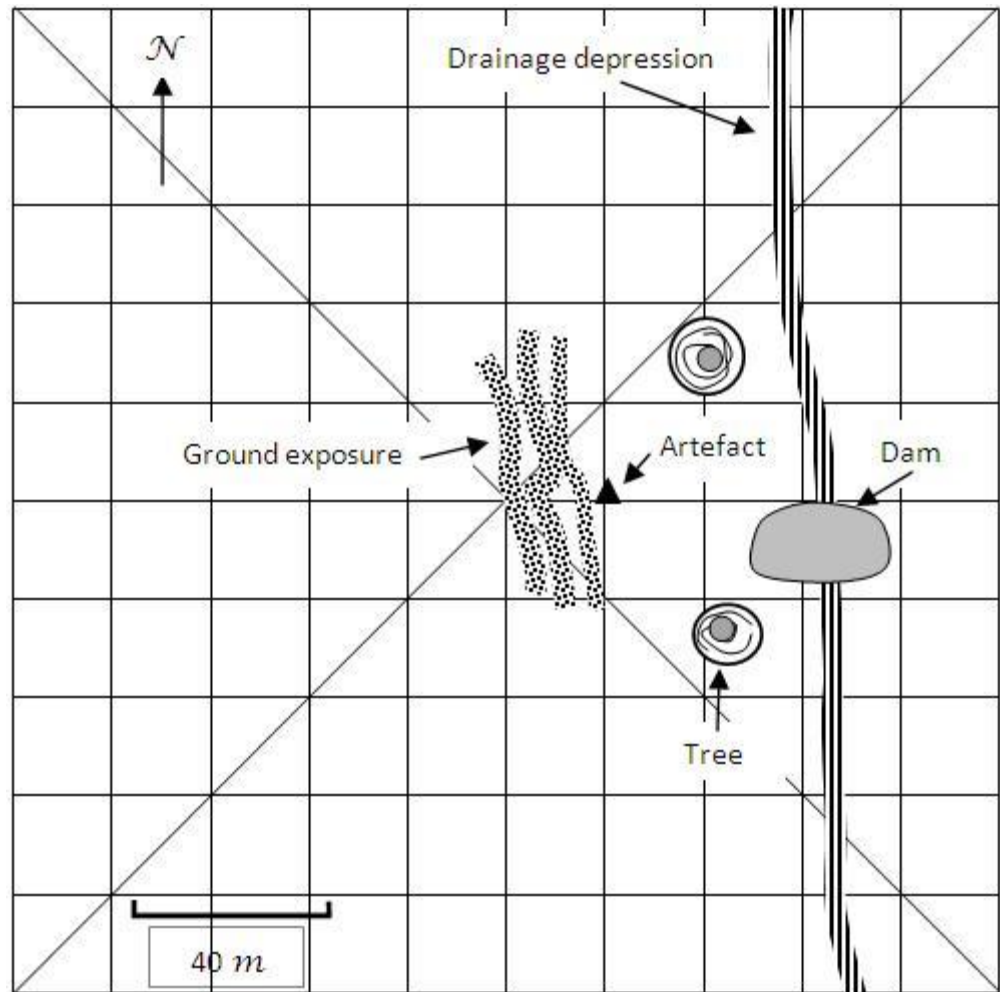


Aboriginal object locale ID: CRWF Survey Unit 4/Locale 3 (CRWF SU4/L3)  
Grid reference(GDA): Zone 55: E742836 N6343932  
Description: This locale is situated in Survey Unit 4, on a simple slope of a broad, undulating plateau landform. The aspect is northerly and gradient gentle (3°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded:  
○ Tuff retouched artefact: 42mm x 21mm x 13mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU4/L3 taken facing to 180°.



CRWF SU4/L3



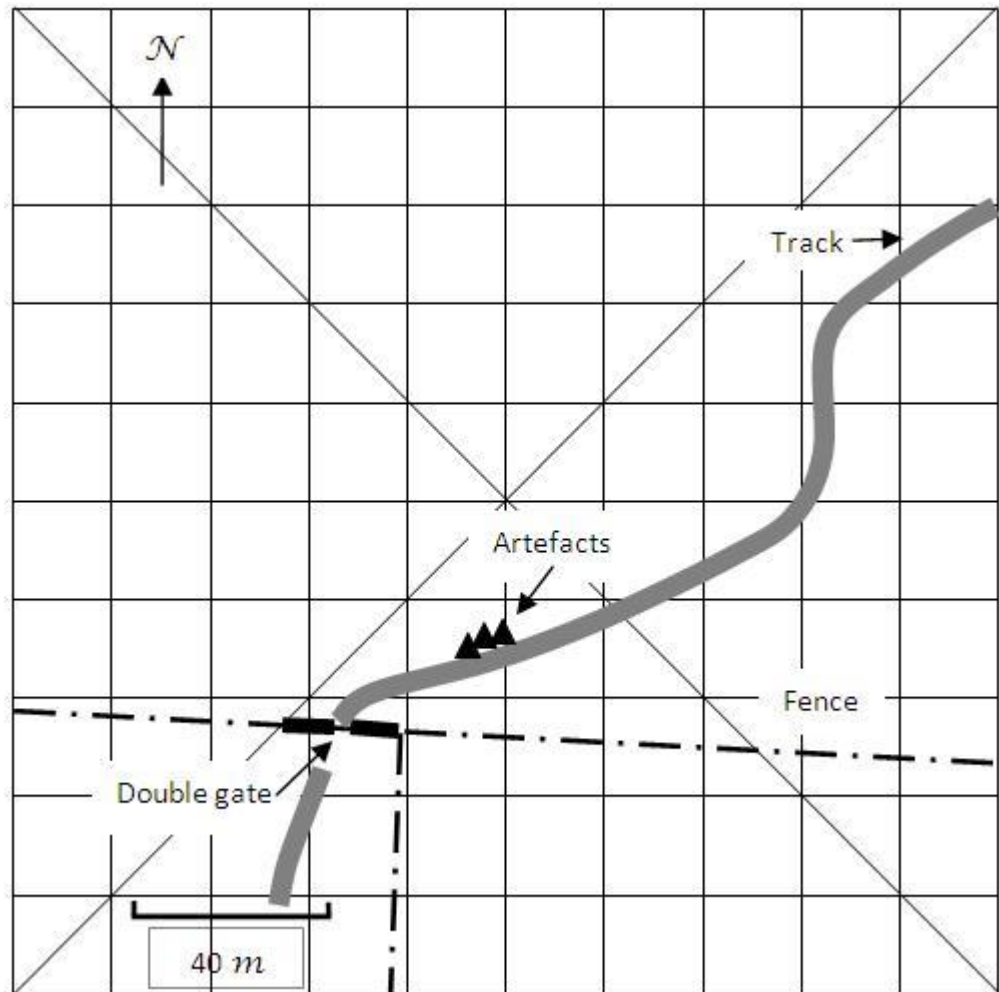
Aboriginal object locale ID: CRWF Survey Unit 5/Locale 1 (CRWF SU5/L1)  
Grid reference(GDA): Zone 55: E742470 N6343620  
Description: This locale is situated in Survey Unit 5, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (3°). The site is in a cleared paddock used for sheep grazing. Three stone artefacts were recorded in an area measuring approximately 4 x 3 metres (12 sq m):

- Tuff flake fragment; 41mm x 24mm x 12mm;
- Tuff flake; 18mm x 17mm x 6mm;
- Tuff flaked piece: 26mm x 25mm x 15mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU5/L1 taken facing to 230°.



CRWF SU5/L1





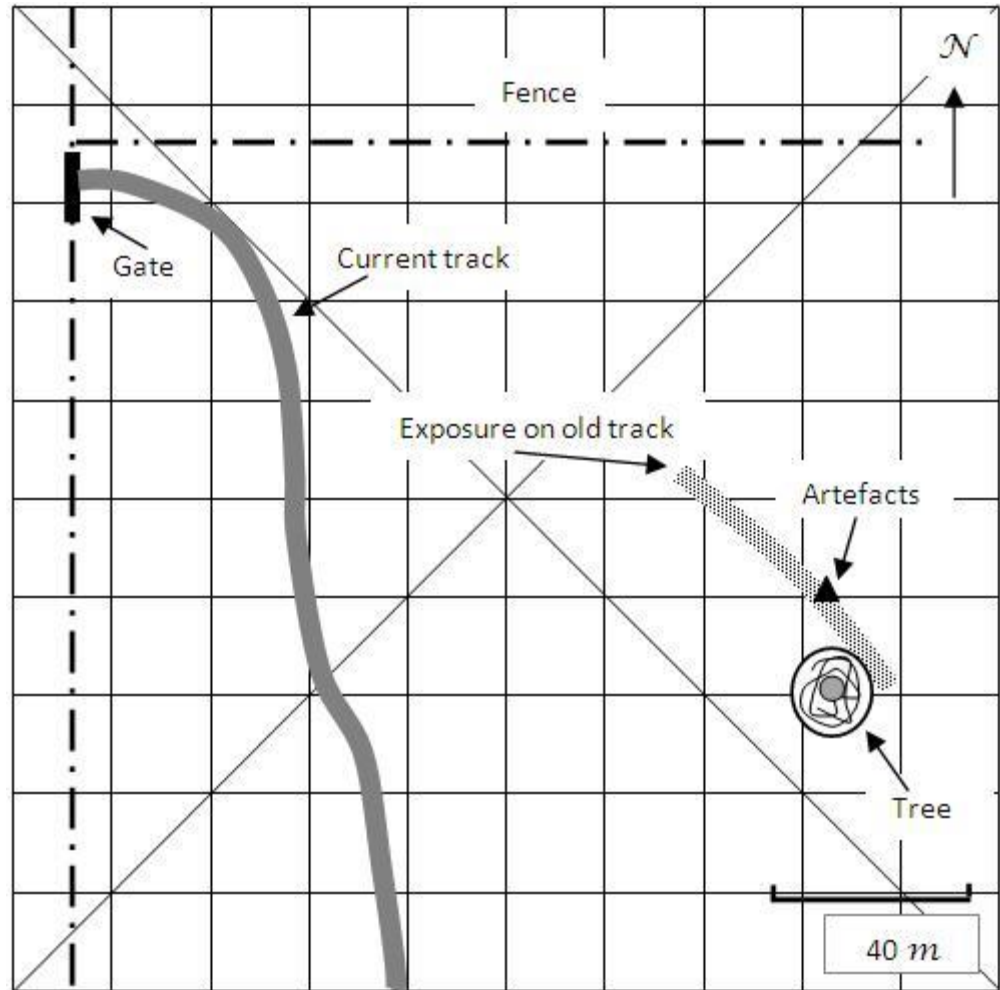
Aboriginal object locale ID: CRWF Survey Unit 6/Locale 1 (CRWF SU6/L1)  
Grid reference(GDA): Zone 55: E744467 N6346283  
Description: This locale is situated in Survey Unit 6, on a crest of a broad, undulating plateau landform. The aspect is southerly and gradient very gentle (1-3°). The site is in a cleared paddock used for sheep grazing. Six stone artefacts were recorded in an area measuring approximately 15 x 15 metres (225 sq m):

- Tuff flake; 25mm x 40mm x 8mm;
- Tuff flake; 26mm x 30mm x 10mm;
- Quartz flake; 21mm x 12mm x 8mm;
- Tuff flake fragment; long. snap: 33mm x 40mm x 9mm
- Tuff flake; 33mm x 35mm x 8mm;
- Tuff flake fragment; 11mm x 33mm x 10mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU6/L1 taken facing to 170°.



CRWF SU6/L1



Aboriginal object locale ID: CRWF Survey Unit 6/Locale 2 (CRWF SU6/L2)  
 Grid reference(GDA): Zone 55: E744477 N6346069  
 Description: This locale is situated in Survey Unit 6, on a crest of a broad, undulating plateau landform. The aspect is southerly and gradient very gentle (1°). The site is in a cleared paddock used for sheep grazing. Three stone artefacts were recorded in an area measuring approximately 20 x 10 metres (200 sq m):

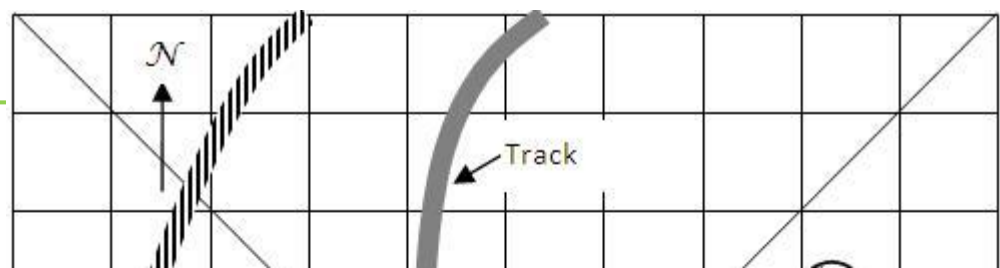
- Tuff flaked piece; 70mm x 38mm x 20mm;
- Tuff flake; 20mm x 15mm x 6mm;
- Quartz (translucent)flaked piece; 18mm x 17mm x 12mm;

Photograph: 20<sup>th</sup> September 2011; CRWF SU6/L2 taken facing to 150°.



CRWF SU6/L2

AHMP







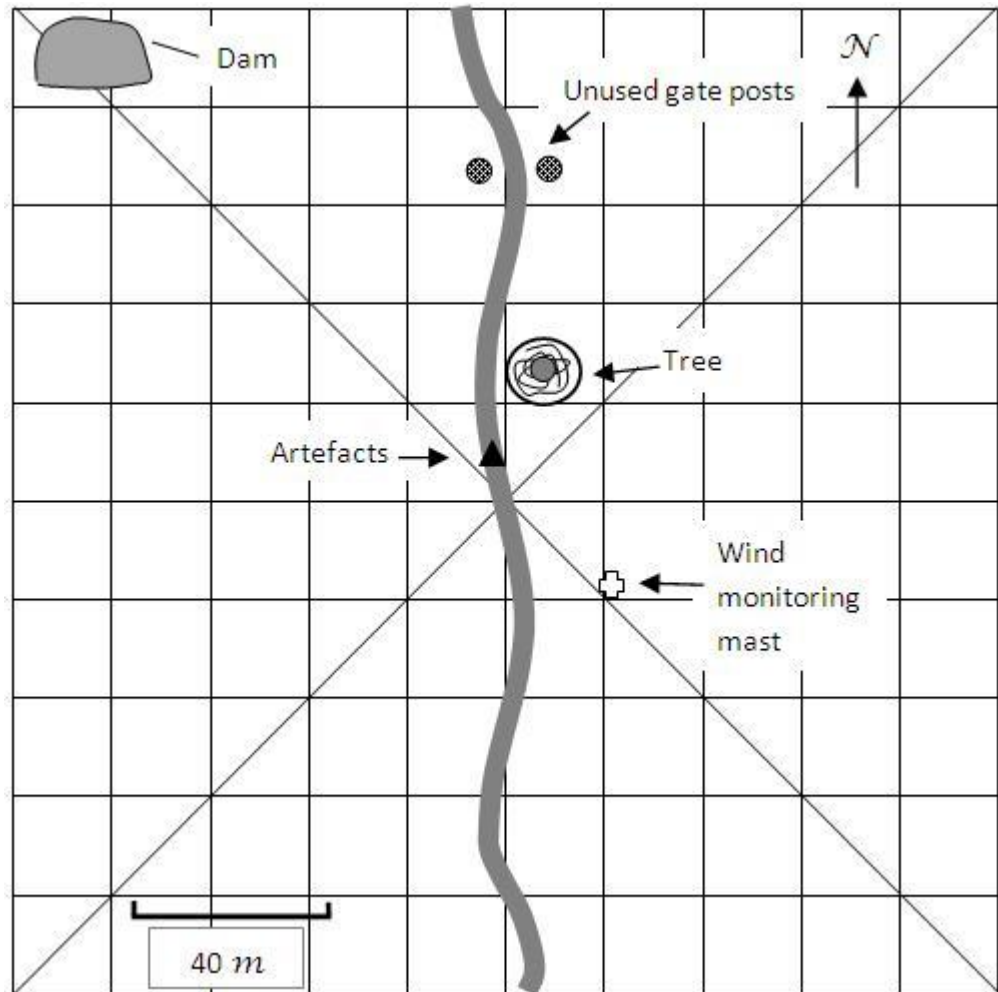
Aboriginal object locale ID: CRWF Survey Unit 6/Locale 3 (CRWF SU6/L3)  
Grid reference(GDA): Zone 55: E744451 N6345854  
Description: This locale is situated in Survey Unit 6, on a crest of a broad, undulating plateau landform. The aspect is northerly and gradient very gentle (2°). The site is in a cleared paddock used for sheep grazing. Ten stone artefacts were recorded in an area measuring approximately 15 x 5 metres (75 sq m):

- Tuff flake; 42mm x 61mm x 11mm;
- Tuff flake fragment; distal; 20mm x 21mm x 4mm;
- Tuff flake fragment; 9mm x 13mm x 2mm;
- Tuff flake fragment; 20mm x 21mm x 5mm;
- Quartz (milky)flake; 24mm x 16mm x 5mm;
- Tuff flake fragment; 21mm x 11mm x 5mm;
- Chert flaked piece; 22mm x 19mm x 6mm;
- Tuff flake fragment; distal; 23mm x 39mm x 13mm;
- Tuff flake fragment; proximal; 16mm x 30mm x 6mm;
- Tuff flaked piece; 30mm x 35mm x 9mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU6/L3 taken facing to 170°.



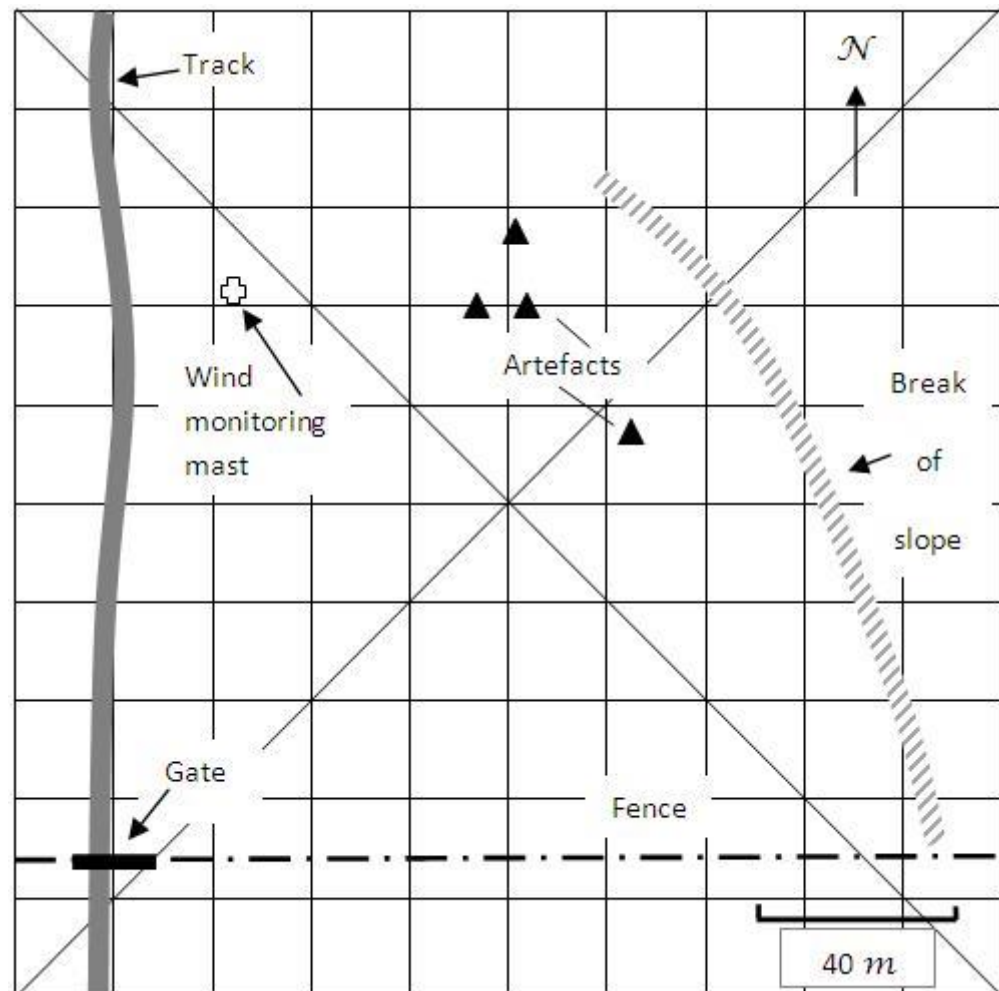
CRWF SU6/L3



Aboriginal object locale ID: CRWF Survey Unit 6/Locale 4 (CRWF SU6/L4)  
 Grid reference(GDA): Zone 55: E744514 N6345775  
 Description: This locale is situated in Survey Unit 6, on a crest of a broad, undulating plateau landform. The aspect is northerly and gradient very gentle (2°). The site is a cleared paddock used for sheep grazing. Eight stone artefacts were recorded in an area measuring approximately 60 x 40 metres (2,400 sq m):

- Tuff flake; 43mm x 42mm x 12mm;
- Quartz (milky)flake; 23mm x 15mm x 7mm;
- Tuff flake; 61mm x 31mm x 12mm;
- Tuff flake; 27mm x 25mm x 7mm;
- Tuff flake; 28mm x 53mm x 18mm;
- Tuff flake fragment; medial; 43mm x 42mm x 12mm;
- Tuff flake fragment; medial; 21mm x 26mm x 9mm;
- Tuff flake fragment; proximal; 11mm x 94mm x 12mm.

CRWF SU6/L4



Aboriginal object locale ID: CRWF Survey Unit 6/Locale 5 (CRWF SU6/L5)



Grid reference(GDA):

Zone 55: E744247 N6345583 (east end)

Description:

This locale is situated in Survey Unit 6, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (0-1°). The site is a cleared paddock used for sheep grazing. Two stone artefacts were recorded in an area measuring approximately 30 x 10 metres (300 sq m):

- Chert proximal flake portion; 40mm x 52mm x 10mm;
- Tuff flake; 20mm x 42mm x 12mm.

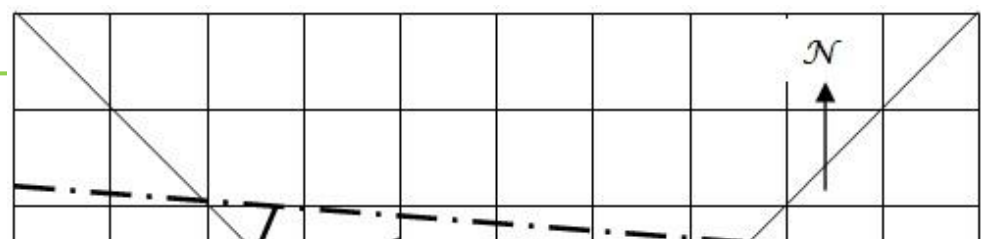
Photograph:

21<sup>st</sup> September 2011; CRWF SU6/L5 taken facing to 230°.



CRWF SU6/L5

AHMP





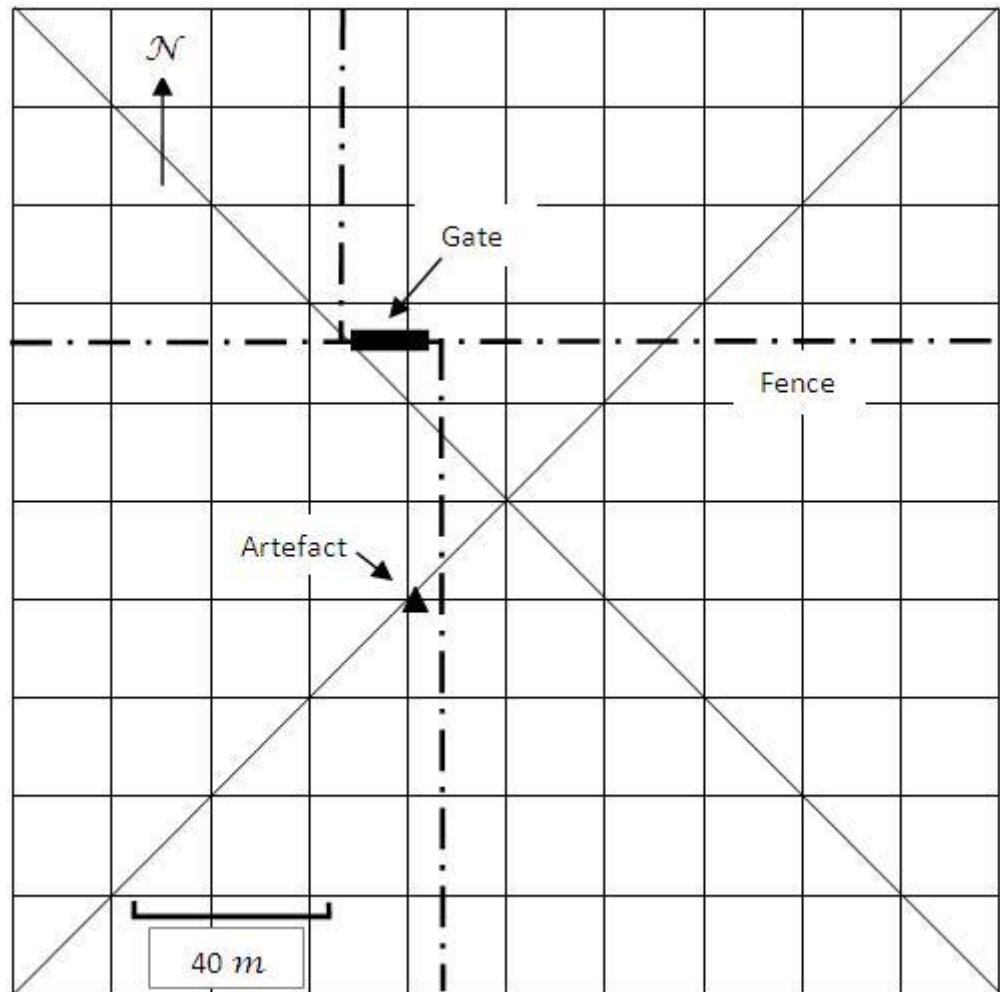
Aboriginal object locale ID: CRWF Survey Unit 7/Locale 1 (CRWF SU7/L1)  
Grid reference(GDA): Zone 55: E744472 N6347983  
Description: This locale is situated in Survey Unit 7, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (0-1°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded:

- Tuff blade flake; 71mm x 19mm x 9mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU7/L1 taken facing to the north.



CRWF SU7/L1





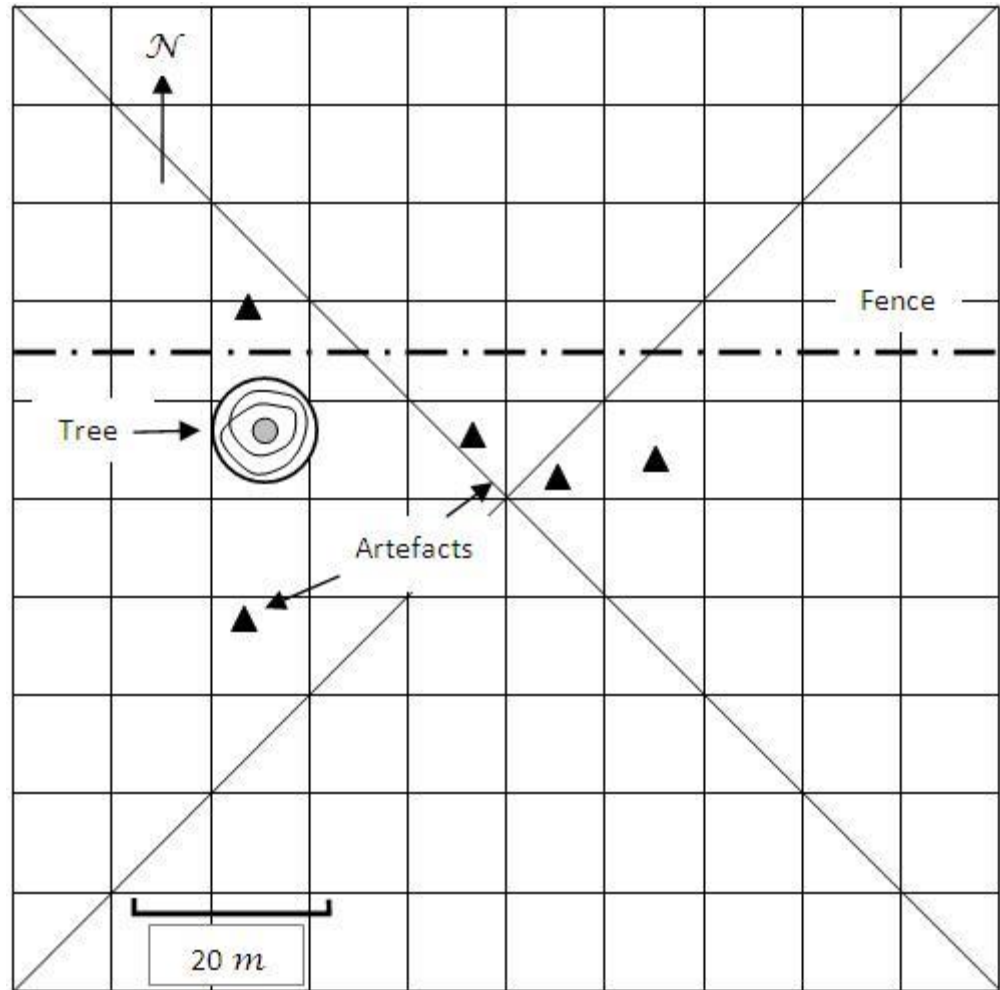
Aboriginal object locale ID: CRWF Survey Unit 7/Locale 2 (CRWF SU7/L2)  
 Grid reference(GDA): Zone 55: E744270 N6347436  
 Description: This locale is situated in Survey Unit 7, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (1-2°). The site is a cleared paddock used for sheep grazing. Seven stone artefacts were recorded in an area measuring approximately 40 x 40 metres (1,600 sq m):

- Quartz (milky)flake; 19mm x 11mm x 6mm;
- Tuff flake with terrestrial cortex; 55mm x 15mm x 7mm;
- Chert flake; 22mm x 51mm x 11mm;
- Chert retouched artefact; 42mm x 17mm x 7mm;
- Chert flaked piece; 25mm x 42mm x 8mm;
- Tuff broken retouched artefact; *Bondi point*; proximal portion; 36mm x 15mm x 5mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU7/L2 taken facing to 130°.



CRWF SU7/L2



Aboriginal object locale ID: CRWF Survey Unit 7/Locale 3 (CRWF SU7/L3)  
Grid reference(GDA): Zone 55: E744248 N6347345  
Description: This locale is situated in Survey Unit 7, on a simple slope of a broad, undulating plateau landform. The artefacts are immediately adjacent to a 1<sup>st</sup> order drainage depression which is almost certainly spring fed. The aspect is northerly and gradient gentle (2-4°). The site is in a cleared paddock used for sheep grazing. Five stone artefacts were recorded in an area measuring approximately 10 x 10 metres (100 sq m):

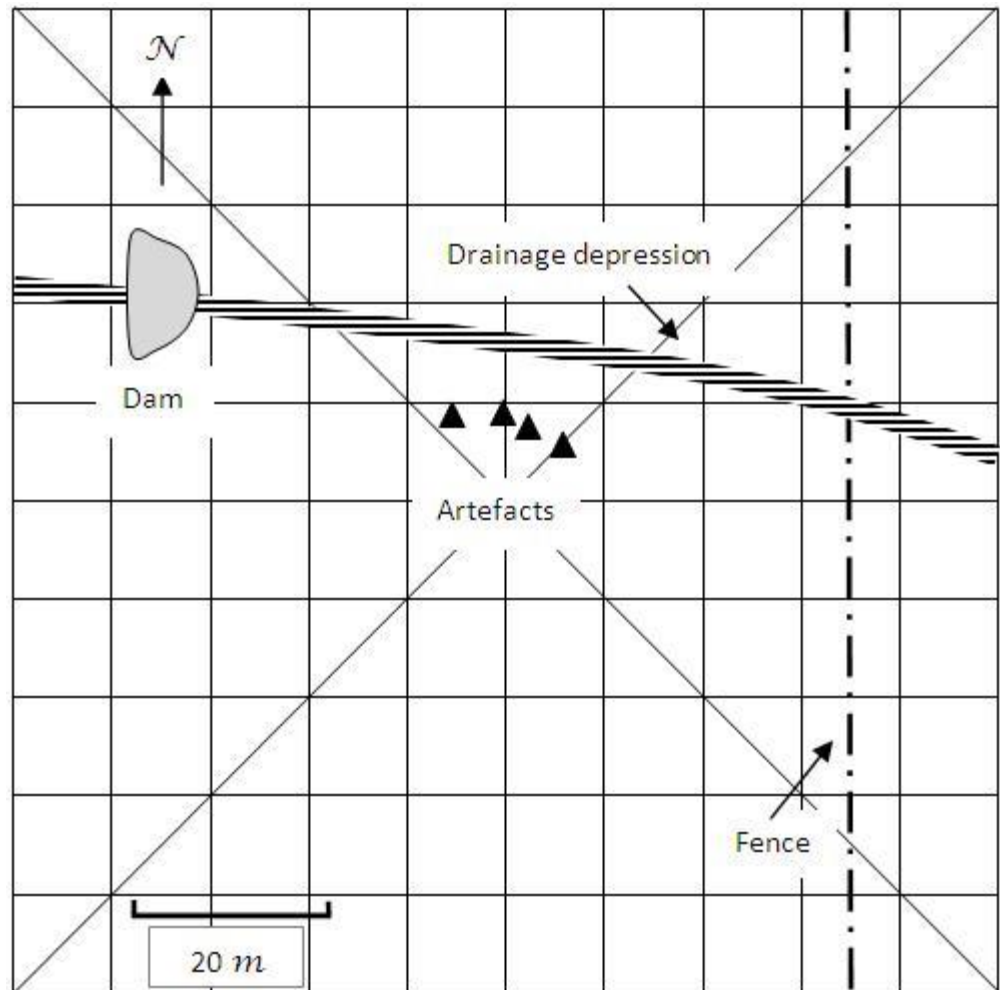
- Tuff flake; 54mm x 48mm x 14mm;
- Tuff flake; 28mm x 20mm x 4mm;
- Tuff flaked piece; 43mm x 19mm x 14mm;
- Chert blade core; 49mm x 25mm x 26mm;
- Tuff flake fragment; 23mm x 16mm x 4mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU7/L3 taken facing to 30°.





CRWF SU7/L3





Aboriginal object locale ID: CRWF Survey Unit 7/Locale 4 (CRWF SU7/L4)

Grid reference(GDA): Zone 55: E744229 N6347331

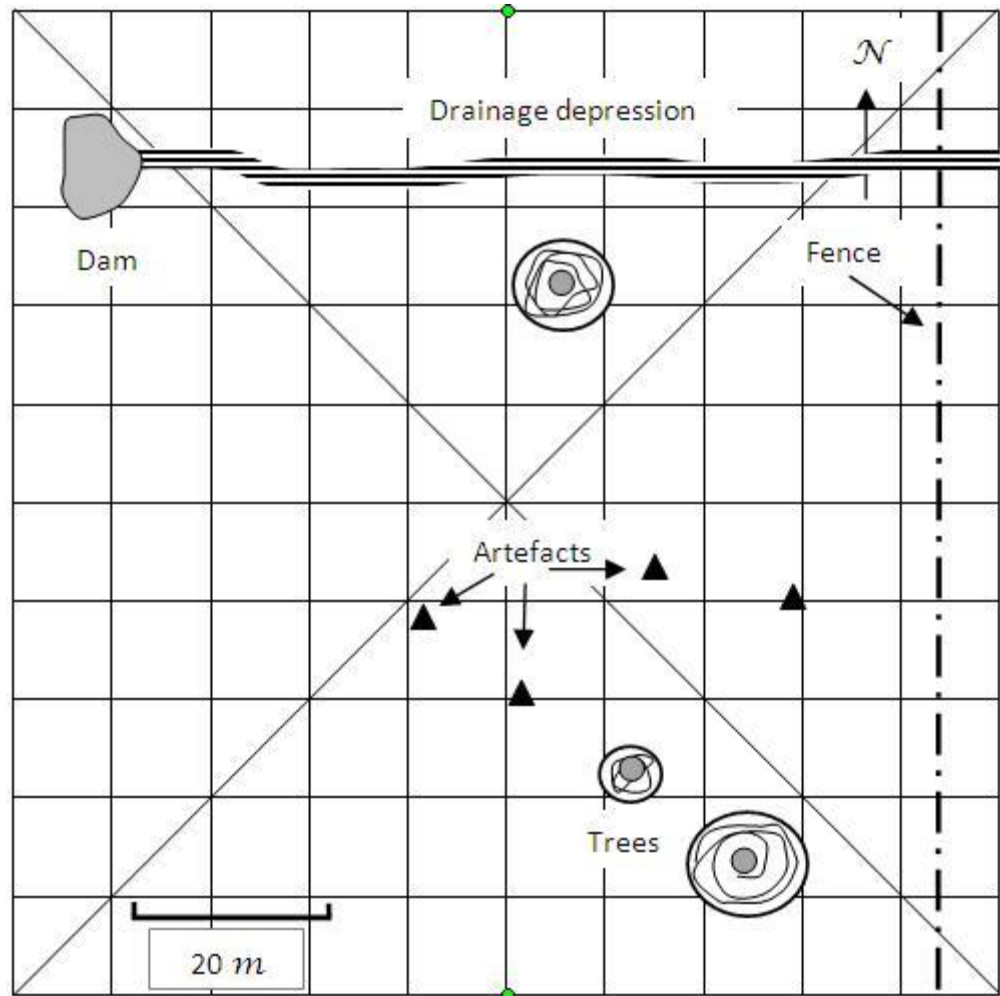
Description: This locale is situated in Survey Unit 7, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (1-2°). The site is in a cleared paddock used for sheep grazing. 13 stone artefacts were recorded in an area measuring approximately 30 x 20 metres (600 sq m):

- Chert unmodified flake with usewear; edge damage along both margins from ventral 38mm x 9mm x 4mm;
- Chert core fragment; 45mm x 38mm x 22mm;
- Tuff flake scraper with usewear along distal; 46mm x 70mm x 17mm;
- Tuff distal flake portion; 45mm x 26mm x 11mm;
- Tuff flake; 30mm x 12mm x 5mm;
- Tuff distal flake portion; 30mm x 22mm x 7mm;
- Tuff flake; 21mm x 12mm x 3mm;
- Tuff flake; 13mm x 19mm x 5mm;
- Tuff proximal flake portion; 17mm x 20mm x 4mm;
- Tuff proximal flake portion; 20mm x 22mm x 4mm;
- Chert flake with pebble 30% cortex; 21mm x 49mm x 15mm;
- Tuff flaked piece; 22mm x 25mm x 15mm;
- Tuff medial flake portion with usewear; 26mm x 8mm x 6mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU7/L4 taken facing to 120°.



CRWF SU7/L4



Aboriginal object locale ID: CRWF Survey Unit 7/Locale 5 (CRWF SU7/L5)  
Grid reference(GDA): Zone 55: E744166 N6347252  
Description: This locale is situated in Survey Unit 7, in a drainage depression on a broad, undulating plateau landform. The aspect is open and gradient very gentle (1-2°). The site is in a cleared paddock used for sheep grazing. Two stone artefacts were recorded in an area measuring approximately 4 x 2 metres (8 sq m):

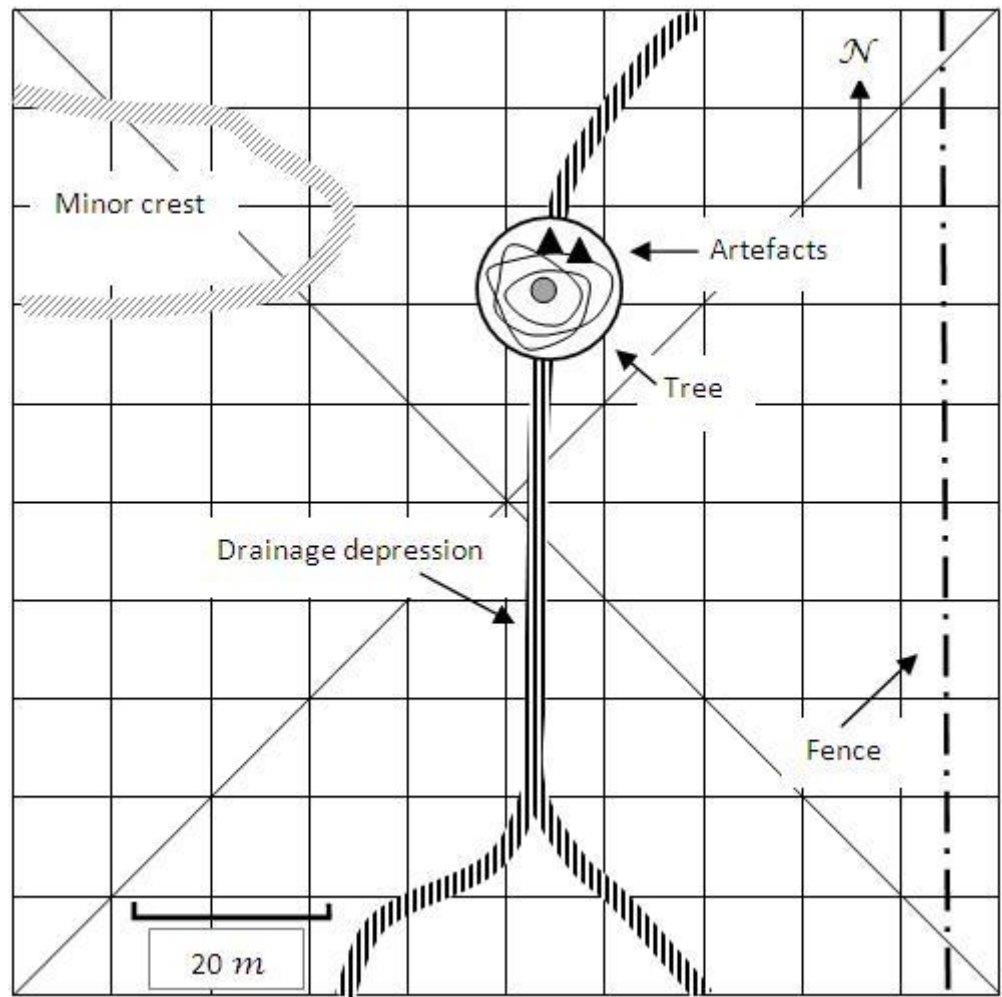
- Tuff core (amorphous); 2 scars: 82mm x 68mm x 65mm;
- Chert (banded) flaked piece with usewear; 3 notches along one margin, each of which is c. 2cm wide; 70mm x 55mm x 30mm.

Photograph: 20<sup>th</sup> September 2011; CRWF SU7/L5 taken facing to 70°.





CRWF SU7/L5



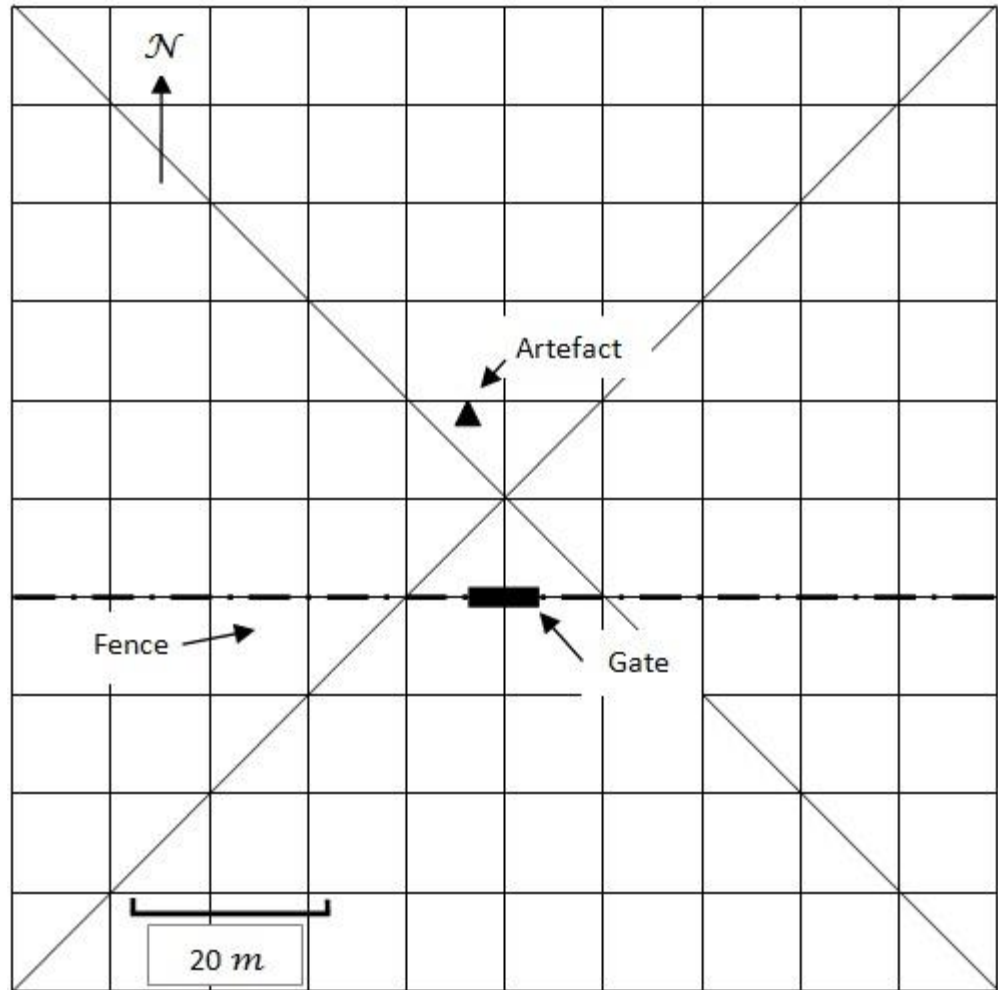


Aboriginal object locale ID: CRWF Survey Unit 7/Locale 6 (CRWF SU7/L6)  
Grid reference(GDA): Zone 55: E744702 N6348674  
Description: This locale is situated in Survey Unit 7, on a crest of a broad, undulating plateau landform. The aspect is to the north and gradient very gentle (2°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded:  
○ Chert flaked piece; 35mm x 19mm x 16mm.

Photograph: 21<sup>st</sup> September 2011; CRWF SU7/L6 taken facing to 190°.



CRWF SU7/L6

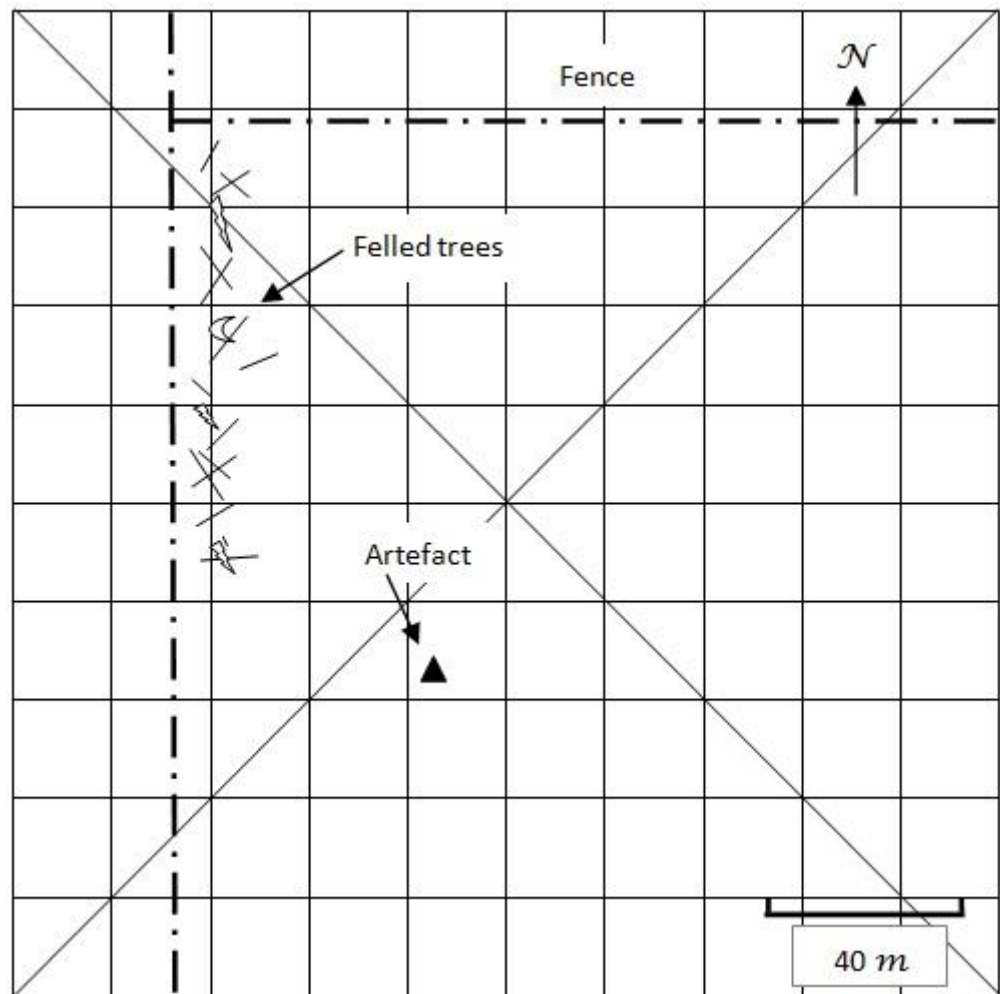


Aboriginal object locale ID: CRWF Survey Unit 8/Locale 1 (CRWF SU8/L1)  
Grid reference(GDA): Zone 55: E743822 N6347354  
Description: This locale is situated in Survey Unit 8, on a crest of a broad, undulating plateau landform. The aspect is northerly and gradient very gentle (2°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded:  
○ Tuff proximal flake portion: 20mm x 48mm x 30mm.

Photograph: 21<sup>st</sup> September 2011; CRWF SU8/L1 taken facing to the north.



CRWF SU8/L1



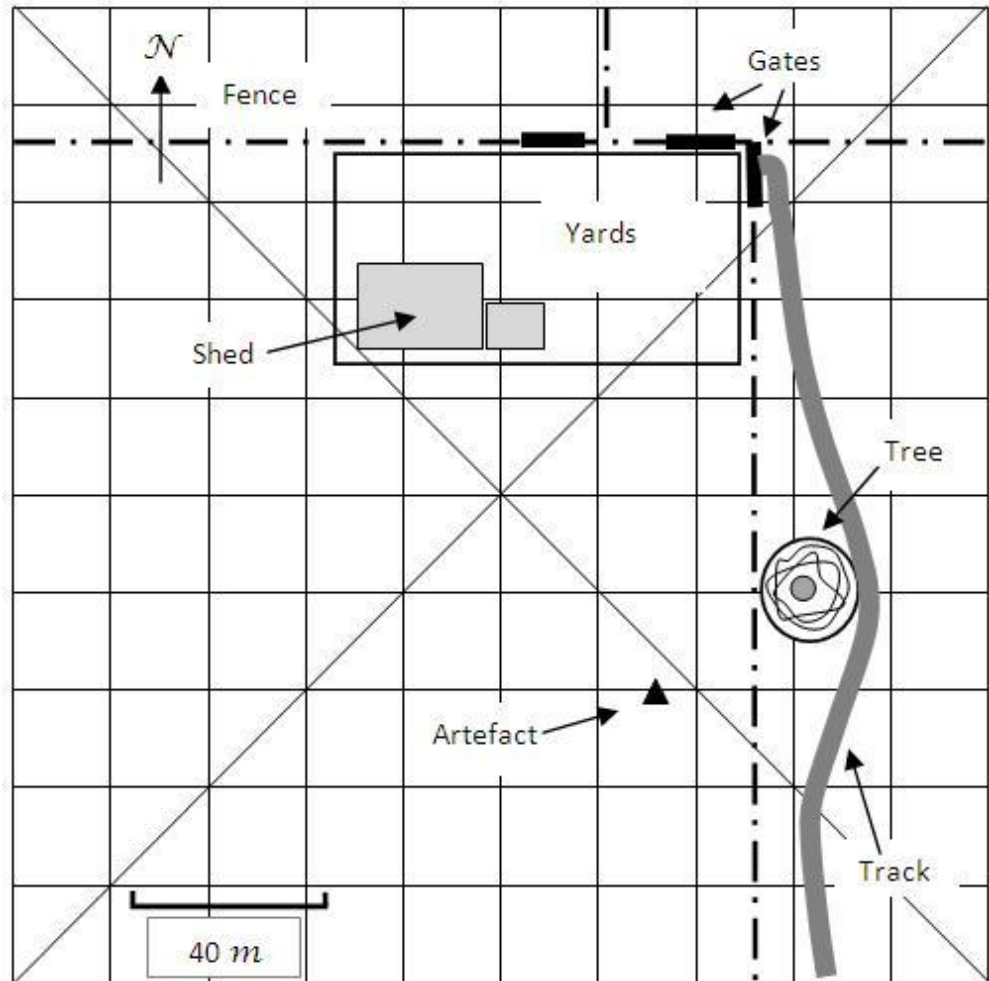


Aboriginal object locale ID: CRWF Survey Unit 8/Locale 2 (CRWF SU8/L2)  
Grid reference(GDA): Zone 55: E744053 N6347984  
Description: This locale is situated in Survey Unit 8, on a crest of a broad, undulating plateau landform. The aspect is northerly and gradient gentle (3°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded:  
○ Tuff flaked piece: 51mm x 29mm x 8mm.

Photograph: 21<sup>st</sup> September 2011; CRWF SU8/L2 taken facing to the north.



CRWF SU8/L2



Aboriginal object locale ID: CRWF Survey Unit 9/Locale 1 (CRWF SU9/L1)

Grid reference(GDA): Zone 55: E750844 N6356236

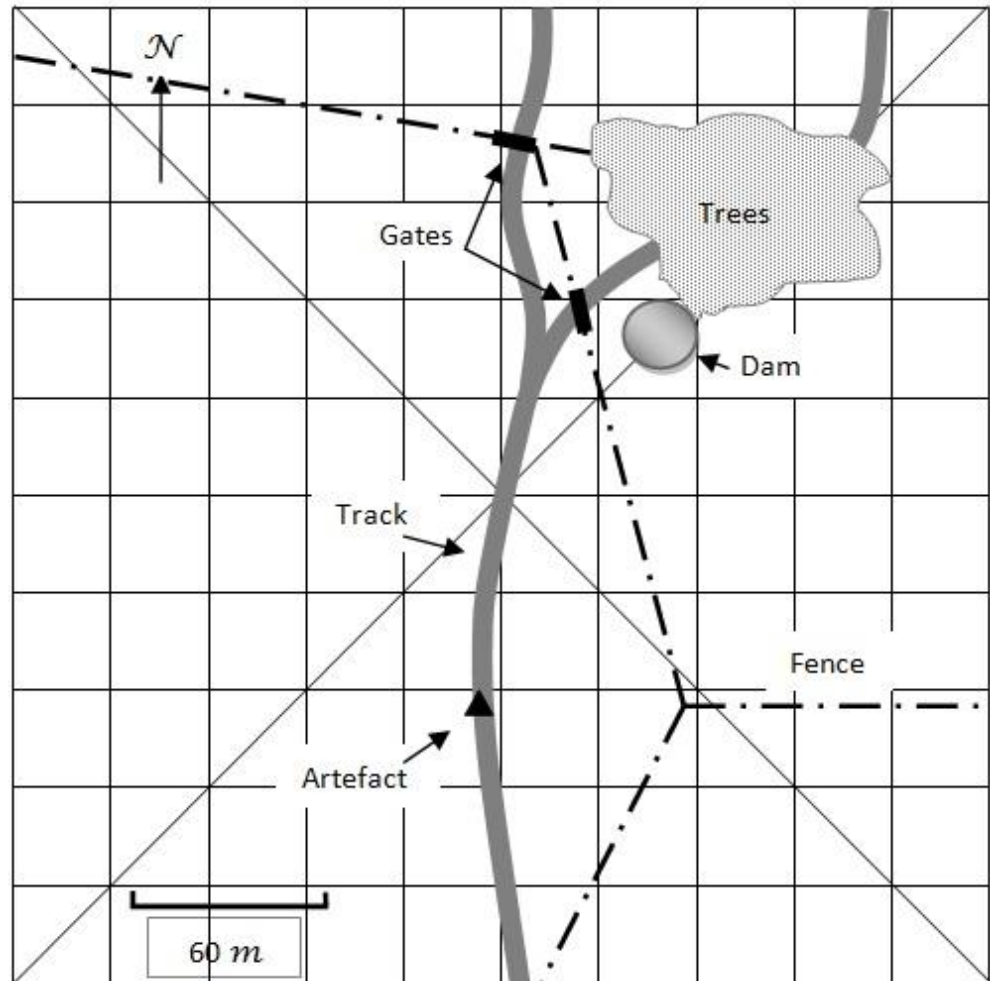
Description: This locale is situated in Survey Unit 9, on a crest of a broad, undulating plateau landform. The aspect is northerly and gradient gentle (4°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded on a track:

- Tuff proximal flake portion; 37mm x 32mm x 9mm.

Photograph: 22<sup>nd</sup> September 2011; CRWF SU9/L1 taken facing to 180°.



CRWF SU9/L1



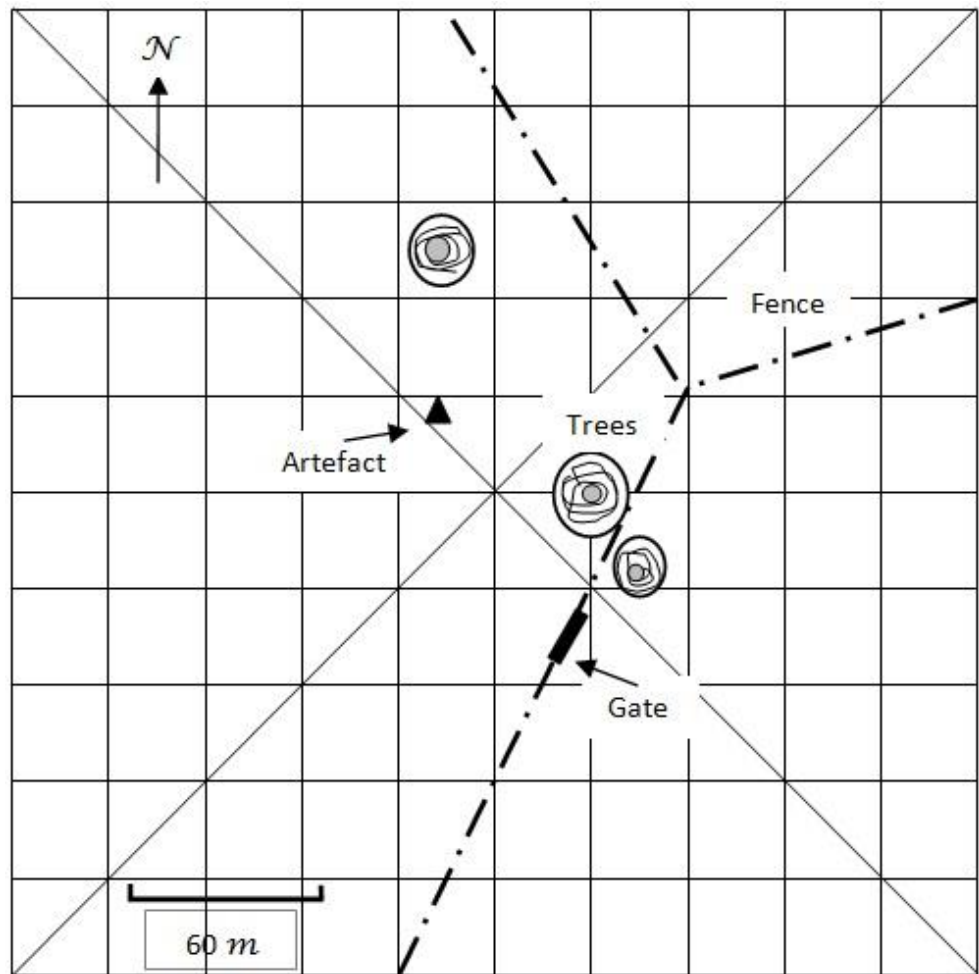


Aboriginal object locale ID: CRWF Survey Unit 9/Locale 2 (CRWF SU9/L2)  
Grid reference(GDA): Zone 55: E750955 N6355239  
Description: This locale is situated in Survey Unit 9, on a crest of a broad, undulating plateau landform. The aspect is northerly and gradient gentle (4°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded on bare earth:  
○ Tuff proximal flake portion; 30mm x 25mm x 10mm.

Photograph: 22<sup>nd</sup> September 2011; CRWF SU9/L2 taken facing to 150°.



CRWF SU9/L2

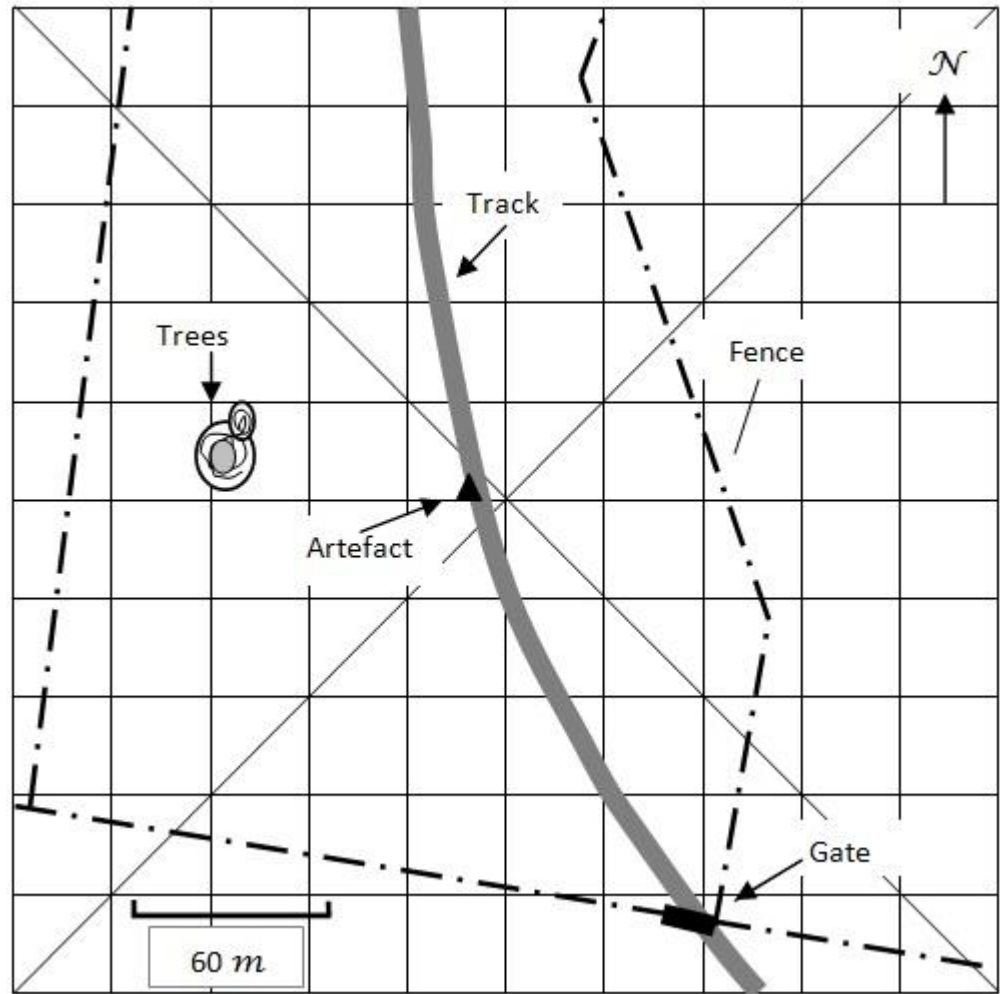


Aboriginal object locale ID: CRWF Survey Unit 9/Locale 3 (CRWF SU9/L3)  
Grid reference(GDA): Zone 55: E750357 N6354009  
Description: This locale is situated in Survey Unit 9, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (1°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded on a track:  
○ Tuff flaked piece; 40mm x 35mm x 17mm.

Photograph: 22<sup>nd</sup> September 2011; CRWF SU9/L3 taken facing to 150°.



CRWF SU9/L3





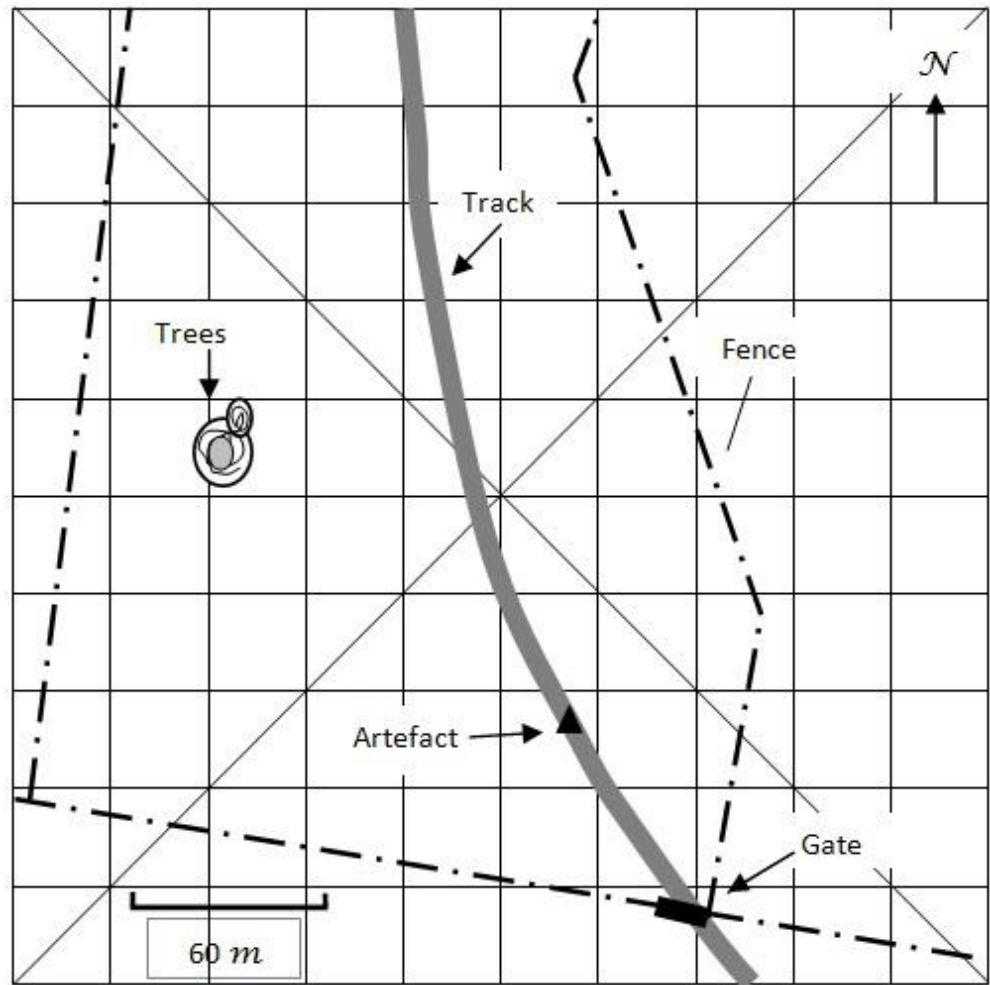
Aboriginal object locale ID: CRWF Survey Unit 9/Locale 4 (CRWF SU9/L4)  
Grid reference(GDA): Zone 55: E750396 N6353928  
Description: This locale is situated in Survey Unit 9, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (1°). The site is in a cleared paddock used for sheep grazing. One stone artefact was recorded on a track:

- Tuff flake fragment; 20mm x 17mm x 6mm.

Photograph: 22<sup>nd</sup> September 2011; CRWF SU9/L4 taken facing to 150°.



CRWF SU9/L4



Aboriginal object locale ID: CRWF Survey Unit 10/Locale 1 (CRWF SU10/L1)

Grid reference(GDA): Zone 55: E750098 N6354842

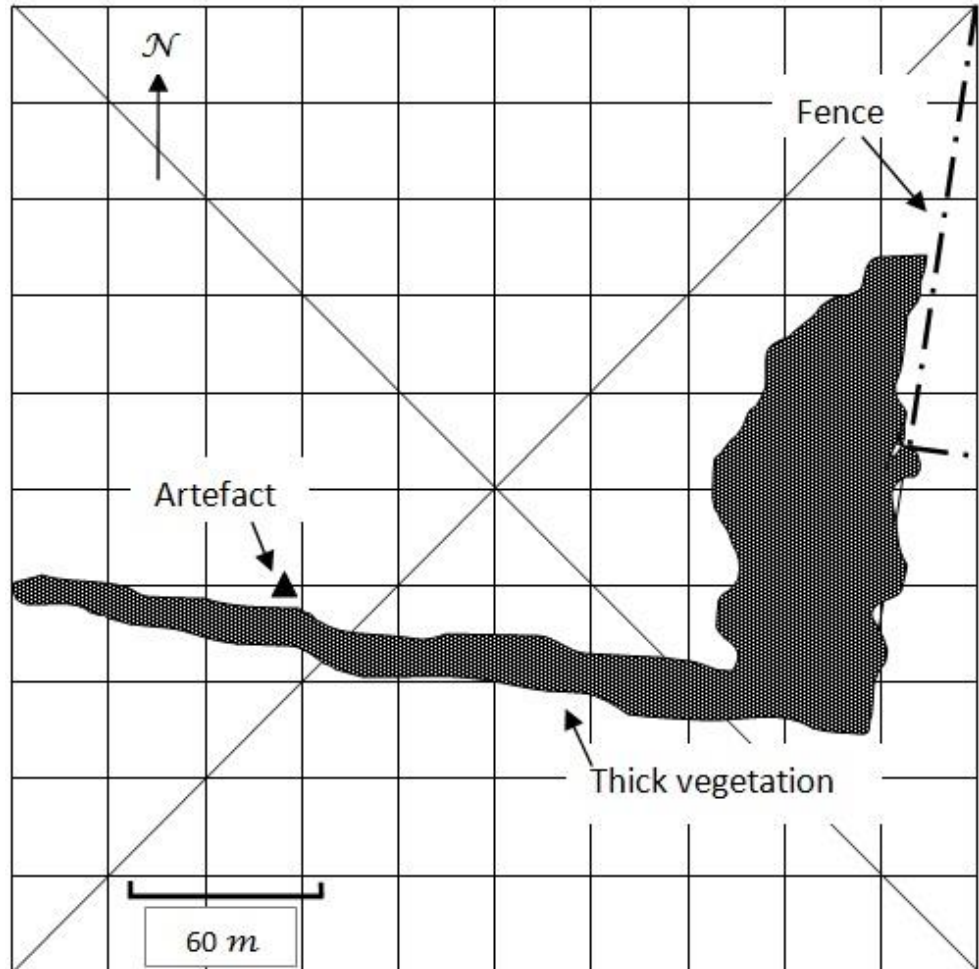
Description: This locale is situated in Survey Unit 10, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle ( $1^{\circ}$ ). The site is in an area of regenerating bushland with biddy bush infestation. One stone artefact was recorded on bare earth:

- Tuff flake; 35mm x 25mm x 14mm.

Photograph: 22<sup>nd</sup> September 2011; CRWF SU10/L1 taken facing to 120°.



CRWF SU10/L1





Aboriginal object locale ID: CRWF Survey Unit 10/Locale 2 (CRWF SU10/L2)

Grid reference(GDA): Zone 55: E749783 N6355096

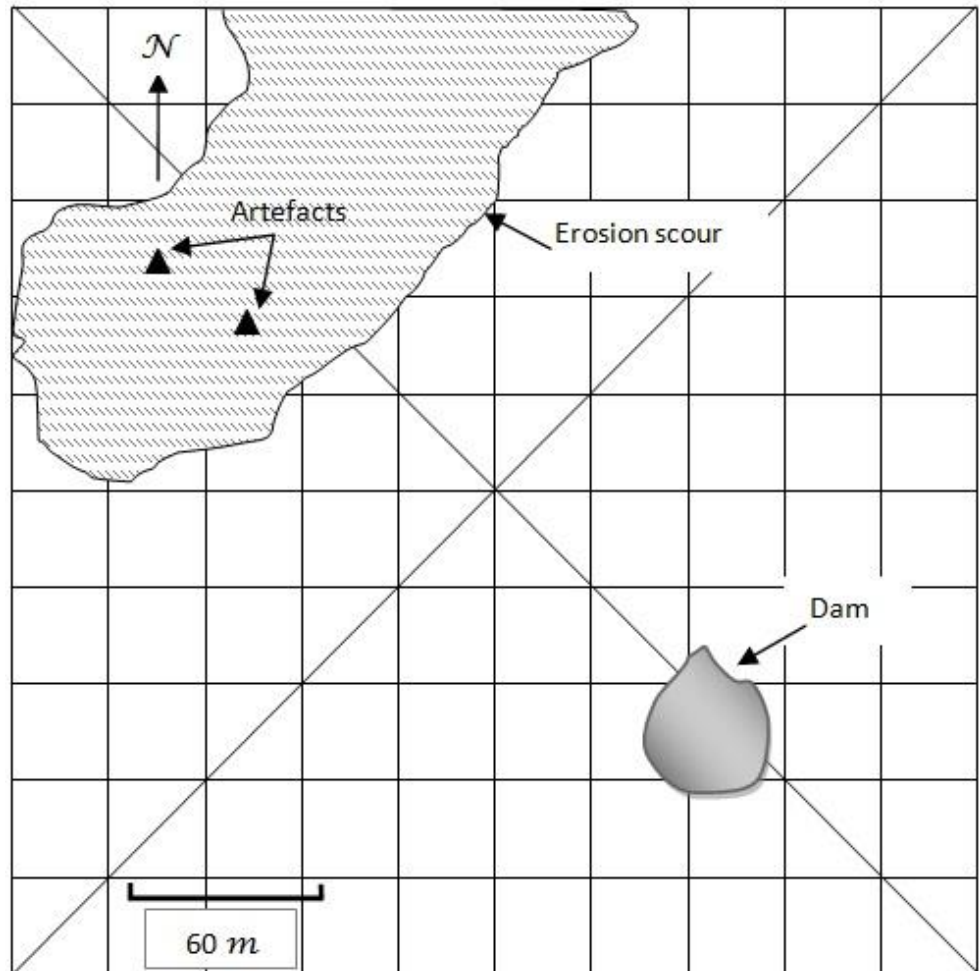
Description: This locale is situated in Survey Unit 10, in a drainage depression of a broad, undulating plateau landform. The aspect is northerly and gradient very gentle (1°). The site is in an area of biddy bush infestation. Two stone artefacts were recorded in an area measuring approximately 30 x 10 metres (300 sq m):

- Tuff flaked piece; 25mm x 32mm x 17mm;
- Tuff core; 2 scars; 25mm x 60mm x 32mm;

Photograph: 22<sup>nd</sup> September 2011; CRWF SU10/L2 taken facing to 90°.



CRWF SU10/L2



Aboriginal object locale ID: CRWF Survey Unit 12/Locale 1 (CRWF SU12/L1)

Grid reference(GDA): Zone 55: E749227 N6352034

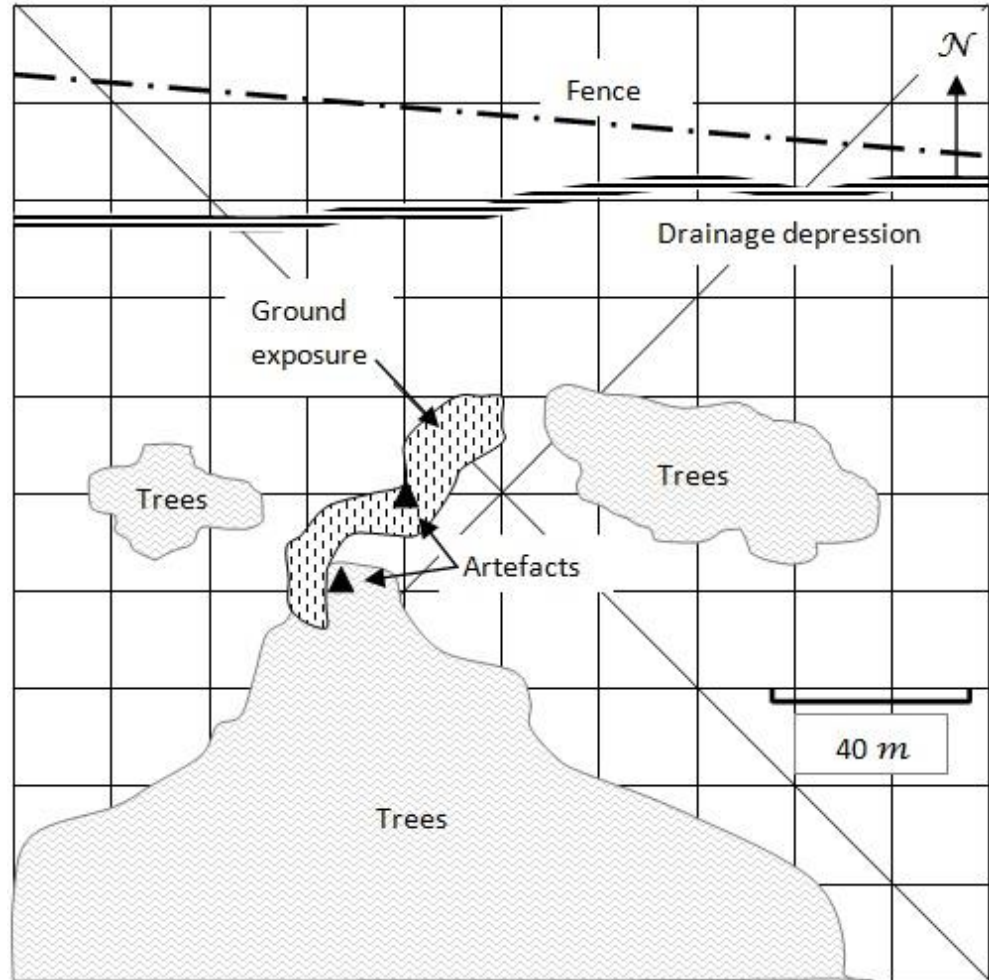
Description: This locale is situated in Survey Unit 12, on a simple slope of a broad, undulating plateau landform. The aspect is northerly and gradient very gentle (2°). The site is in paddock used for sheep grazing in an area of regenerating bush. Four stone artefacts were recorded in an area measuring approximately 20 x 20 metres (400 sq m):

- Uncertain material: flaked piece with terrestrial cortex; 45mm x 45mm x 20mm;
- Tuff flake fragment; 20mm x 30mm x 4mm;
- Tuff flake; 38mm x 18mm x 6mm;
- Chert retouched artefact; *Bondi point*; 20mm x 8mm x 4mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU12/L1 taken facing to 240°.



CRWF SU12/L1





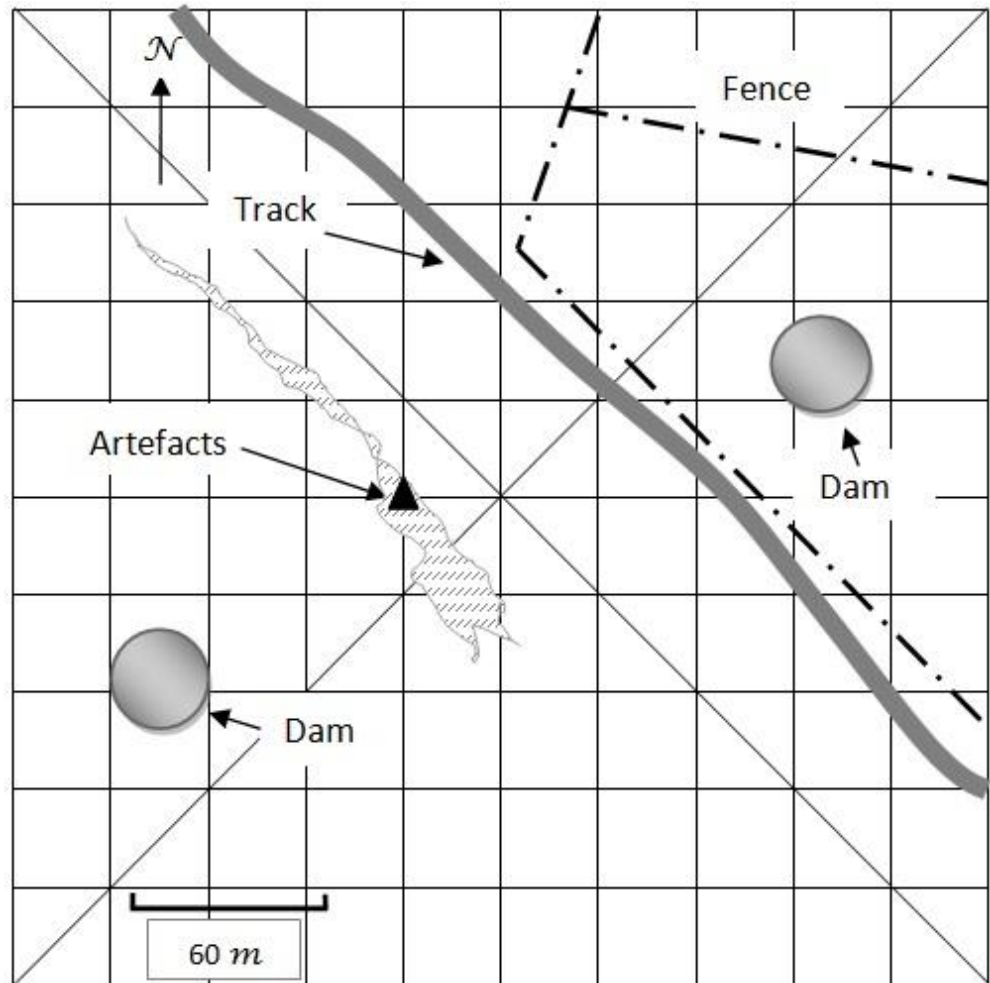
Aboriginal object locale ID: CRWF Survey Unit 12/Locale 2 (CRWF SU12/L2)  
Grid reference(GDA): Zone 55: E749414 N6351947  
Description: This locale is situated in Survey Unit 12, in a drainage depression of a broad, undulating plateau landform. The aspect is northerly and gradient very gentle (2°). The site is in paddock used for sheep grazing. Two stone artefacts were recorded in an area measuring approximately 10 x 5 metres (50 sq m):

- Tuff flake; 60mm x 28mm x 11mm;
- Tuff flaked piece; 50mm x 22mm x 12mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU12/L2 taken facing to 150°.



CRWF SU12/L2



Aboriginal object locale ID: CRWF Survey Unit 13/Locale 1 (CRWF SU13/L1)

Grid reference(GDA): Zone 55: E748780 N6351021

Description: This locale is situated in Survey Unit 13, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (2°). The site is in paddock used for sheep grazing. Three stone artefacts were recorded in an area measuring approximately 10 x 10 metres (100 sq m):

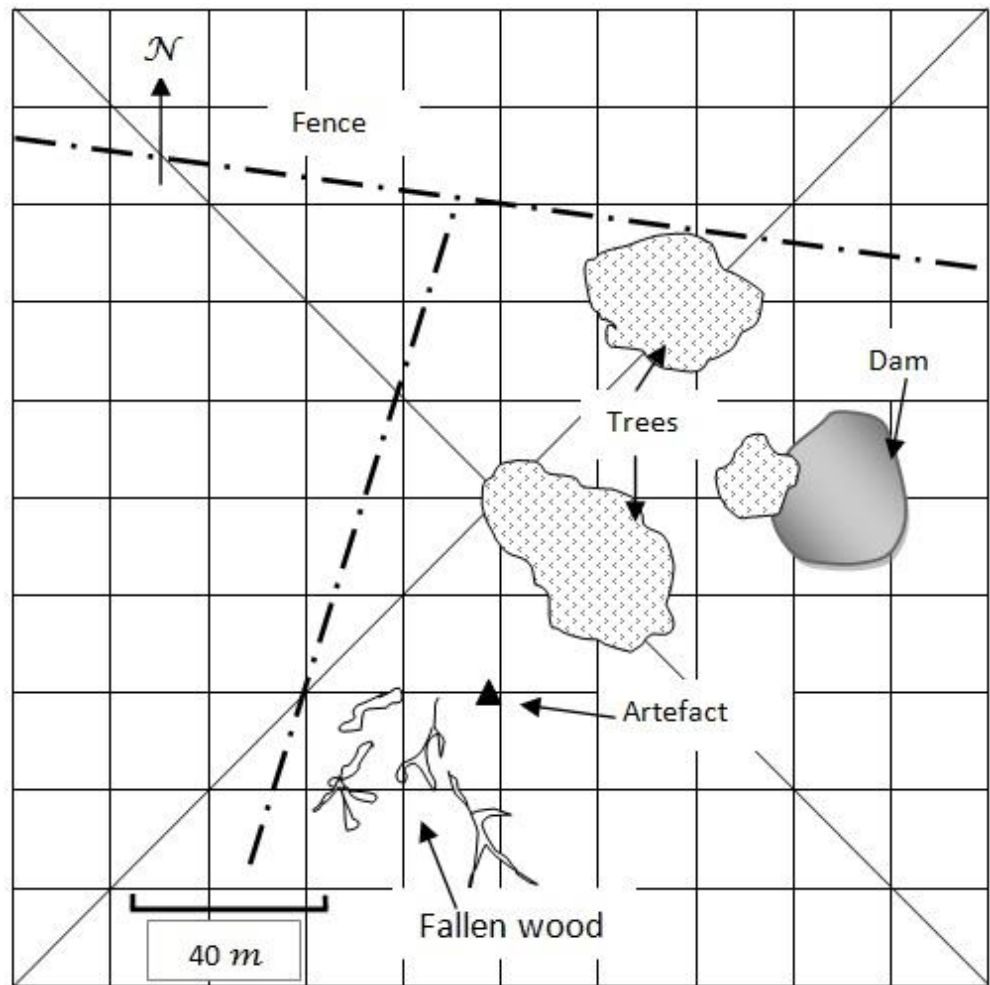
- Tuff flake fragment with usewear; terrestrial cortex; 55mm x 28mm x 18mm;
- Chert flake; 25mm x 42mm x 12mm;
- Tuff flaked piece; terrestrial cortex : 35mm x 17mm x 12mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU13/L1 taken facing to 240°.





CRWF SU13/L1





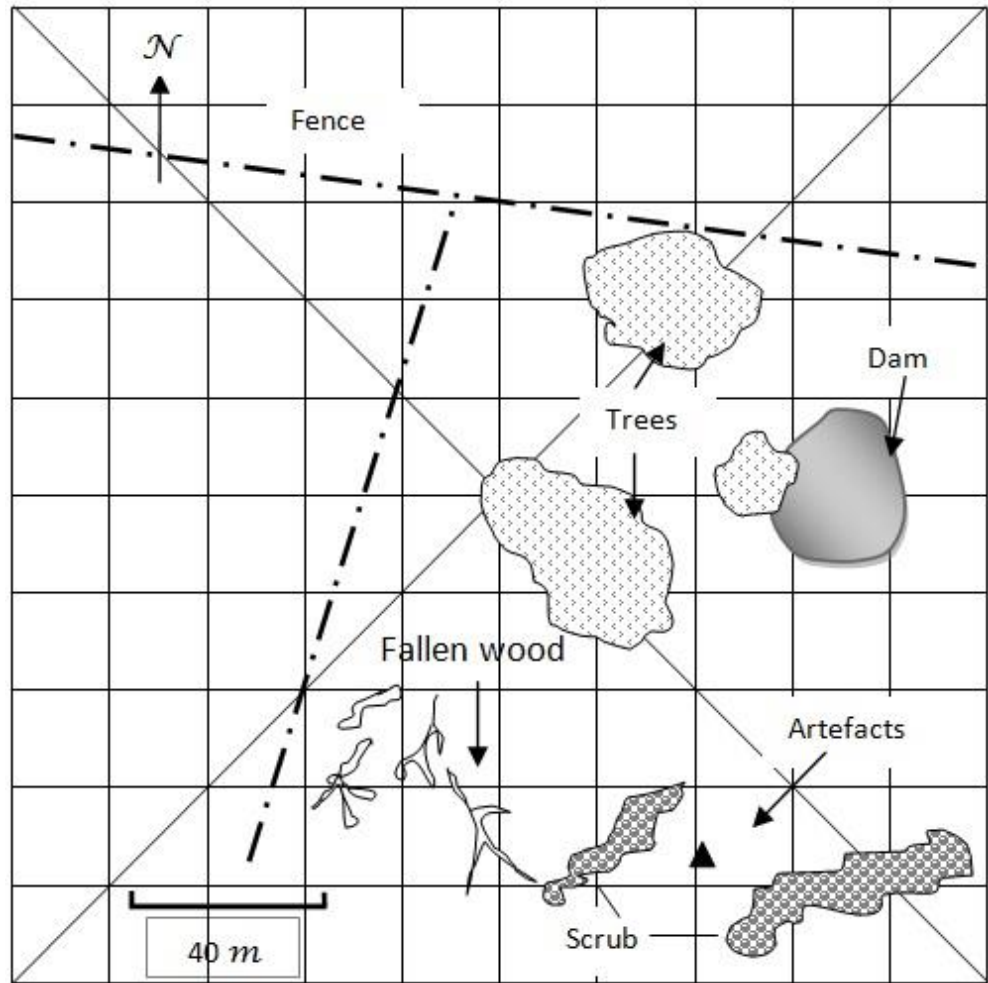
Aboriginal object locale ID: CRWF Survey Unit 13/Locale 2 (CRWF SU13/L2)  
 Grid reference(GDA): Zone 55: E748798 N6350947  
 Description: This locale is situated in Survey Unit 13, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (1-2°). The site is in paddock used for sheep grazing. Approximately 50 stone artefacts were recorded in an area measuring approximately 40 x 30 metres (1,200 sq m); a sample is listed below:

- Tuff flake fragment; 12mm x 21mm x 4mm;
- Tuff flake; 25mm x 22mm x 10mm;
- Tuff flake; 25mm x 37mm x 11mm;
- Tuff flake fragment; 25mm x 30mm x 10mm;
- Tuff flake with usewear and terrestrial cortex; 28mm x 30mm x 12mm;
- Tuff flake; 18mm x 24mm x 6mm;
- Tuff flake; 16mm x 28mm x 4mm;
- Chert (banded) flake fragment with usewear; 30mm x 23mm x 8mm;
- Tuff flake; 11mm x 18mm x 3mm;
- Silcrete (very fine grained) flake; 15mm x 25mm x 7mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU13/L2 taken facing to 230°.



CRWF SU13/L2



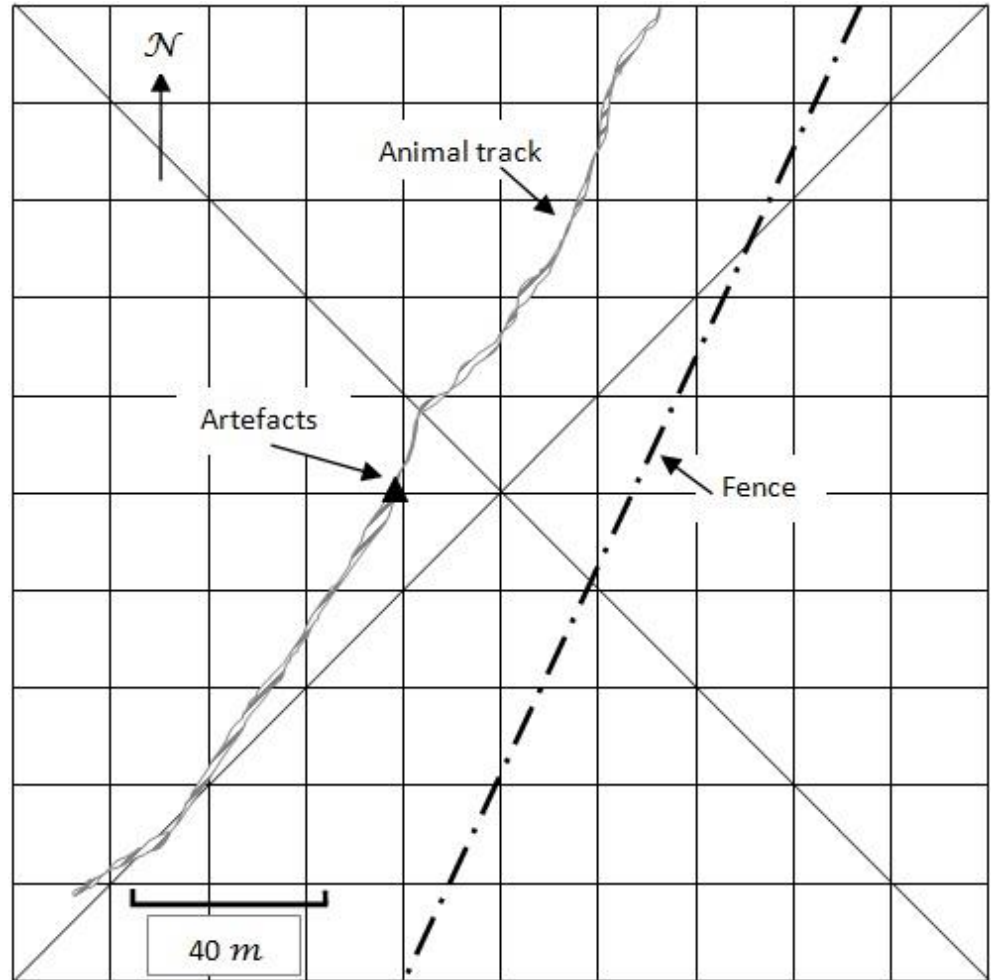
Aboriginal object locale ID: CRWF Survey Unit 13/Locale 3 (CRWF SU13/L3)  
Grid reference(GDA): Zone 55: E748614 N6350897  
Description: This locale is situated in Survey Unit 13, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (2°). The site is in paddock used for sheep grazing. Two stone artefacts were recorded in an area measuring approximately 3 x 1 metres (3 sq m):

- Tuff proximal flake portion; 30mm x 35mm x 8mm;
- Tuff flake: 32mm x 33mm x 11mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU13/L3 taken facing to 230°.



CRWF SU13/L3





Aboriginal object locale ID: CRWF Survey Unit 14/Locale 1 (CRWF SU14/L1)

Grid reference(GDA): Zone 55: E746665 N6349665

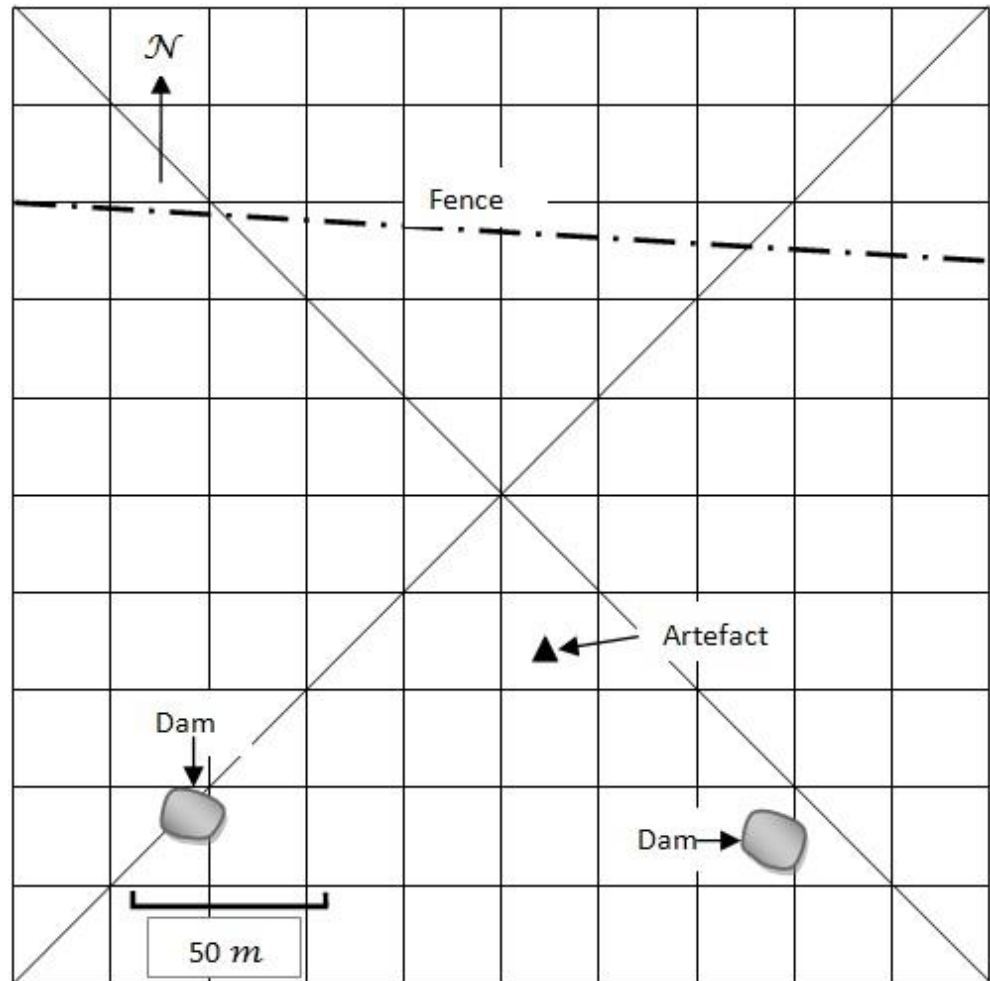
Description: This locale is situated in Survey Unit 14, on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle ( $1^{\circ}$ ). The site is in paddock used for sheep grazing. One stone artefact was recorded on bare earth:

- Tuff flake; 50mm x 40mm x 15mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU14/L1 taken facing to  $150^{\circ}$ .



CRWF SU14/L1



Aboriginal object locale ID: CRWF Survey Unit 14/Locale 2 (CRWF SU14/L2)  
Grid reference(GDA): Zone 55: E747267 N6350205  
Description: This locale is situated in Survey Unit 14 on a simple slope of a broad, undulating plateau landform. The aspect is to the north-east and gradient very gentle (2°). The site is in paddock used for sheep grazing. Two stone artefacts were recorded in an area measuring approximately 1 x 1 metres (1 sq m):

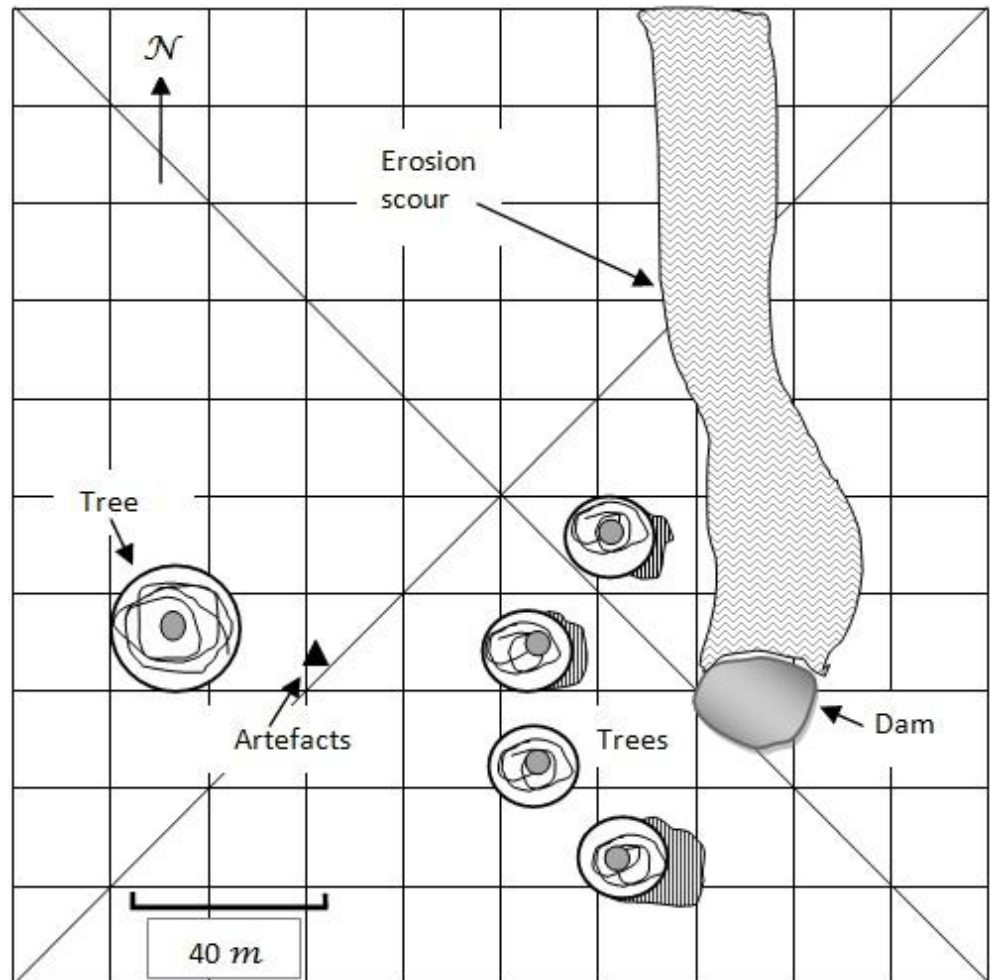
- Chert flake; 23mm x 35mm x 8mm;
- Tuff flake: 25mm x 28mm x 6mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU14/L2 taken facing to 110°.





CRWF SU14/L2



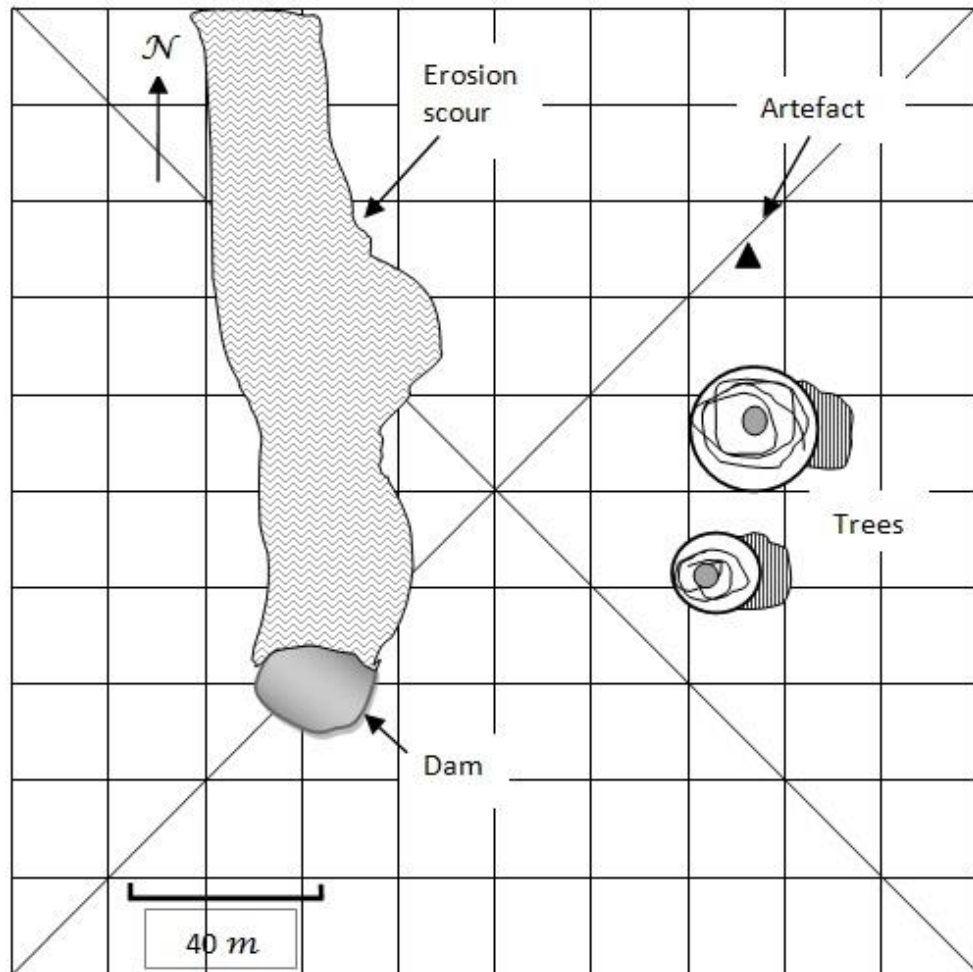


Aboriginal object locale ID: CRWF Survey Unit 14/Locale 3 (CRWF SU14/L3)  
Grid reference(GDA): Zone 55: E746665 N6349665  
Description: This locale is situated in Survey Unit 14, on a crest of a broad, undulating plateau landform. The aspect is westerly and gradient very gentle (1°). The site is in paddock used for sheep grazing. One stone artefact was recorded on bare earth:  
○ Tuff flake; 30mm x 40mm x 9mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU14/L3 taken facing to 60°.



CRWF SU14/L3



Aboriginal object locale ID: CRWF Survey Unit 14/Locale 4 (CRWF SU14/L4)

Grid reference(GDA): Zone 55: E747827 N6350521

Description: This locale is situated in Survey Unit 14 on a simple slope of a broad, undulating plateau landform. The aspect is to the north-east and gradient very gentle (2°). The site is in paddock used for sheep grazing. 14 stone artefacts were recorded in an area measuring approximately 55 x 25 metres (1,375 sq m):

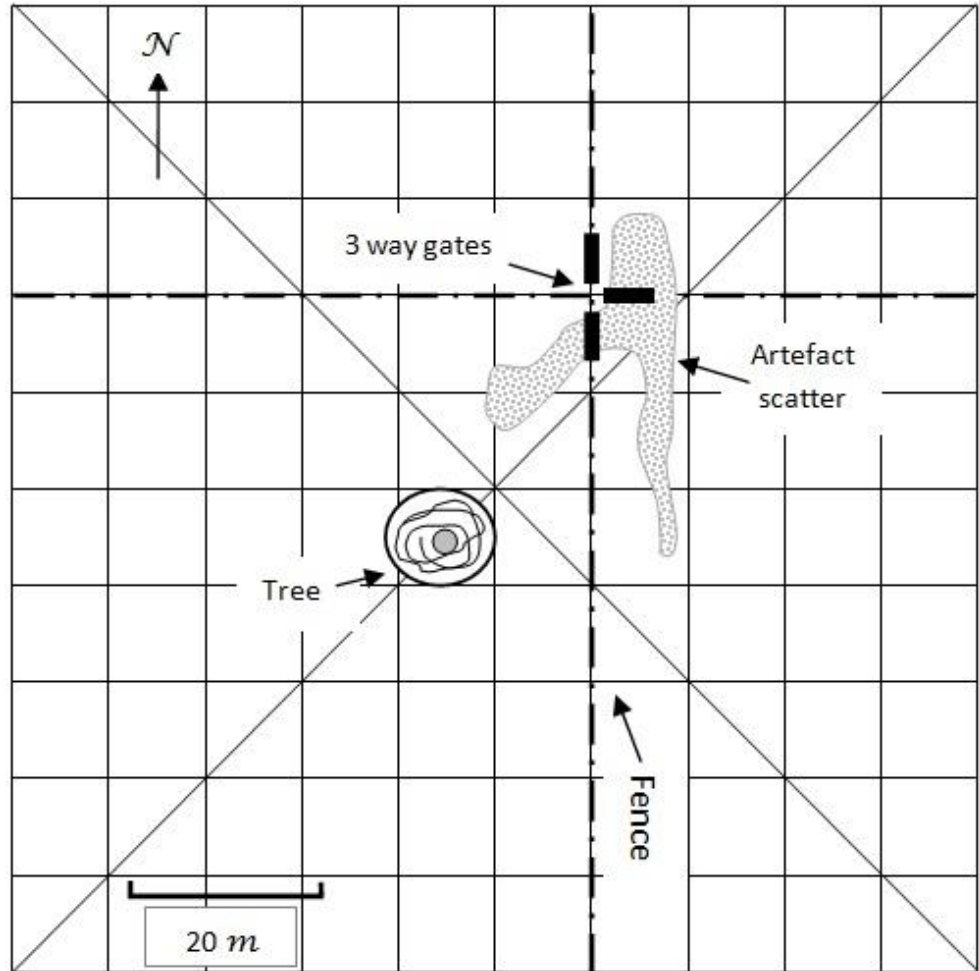
- Tuff flake fragment; 40mm x 23mm x 10mm;
- Quartz flake; 32mm x 25mm x 10mm;
- Tuff flake: 25mm x 8mm x 5mm;
- Tuff flake: 23mm x 15mm x 6mm;
- Tuff flake fragment: 14mm x 18mm x 3mm ;
- Tuff flake: 16mm x 11mm x 3mm;
- Tuff flaked piece: 45mm x 28mm x 10mm;
- Tuff flake: 40mm x 30mm x 15mm;
- Tuff flake fragment: 14mm x 22mm x 5mm;
- Tuff flake fragment: 15mm x 25mm x 5mm;
- Tuff flake fragment: 38mm x 18mm x 14mm;
- Tuff flake: 12mm x 26mm x 6mm;
- Tuff flake: 37mm x 20mm x 8mm;
- Tuff flaked piece: 25mm x 33mm x 12mm.

Photograph: 23<sup>rd</sup> September 2011; CRWF SU14/L4 taken facing to 60°.





CRWF SU14/L4





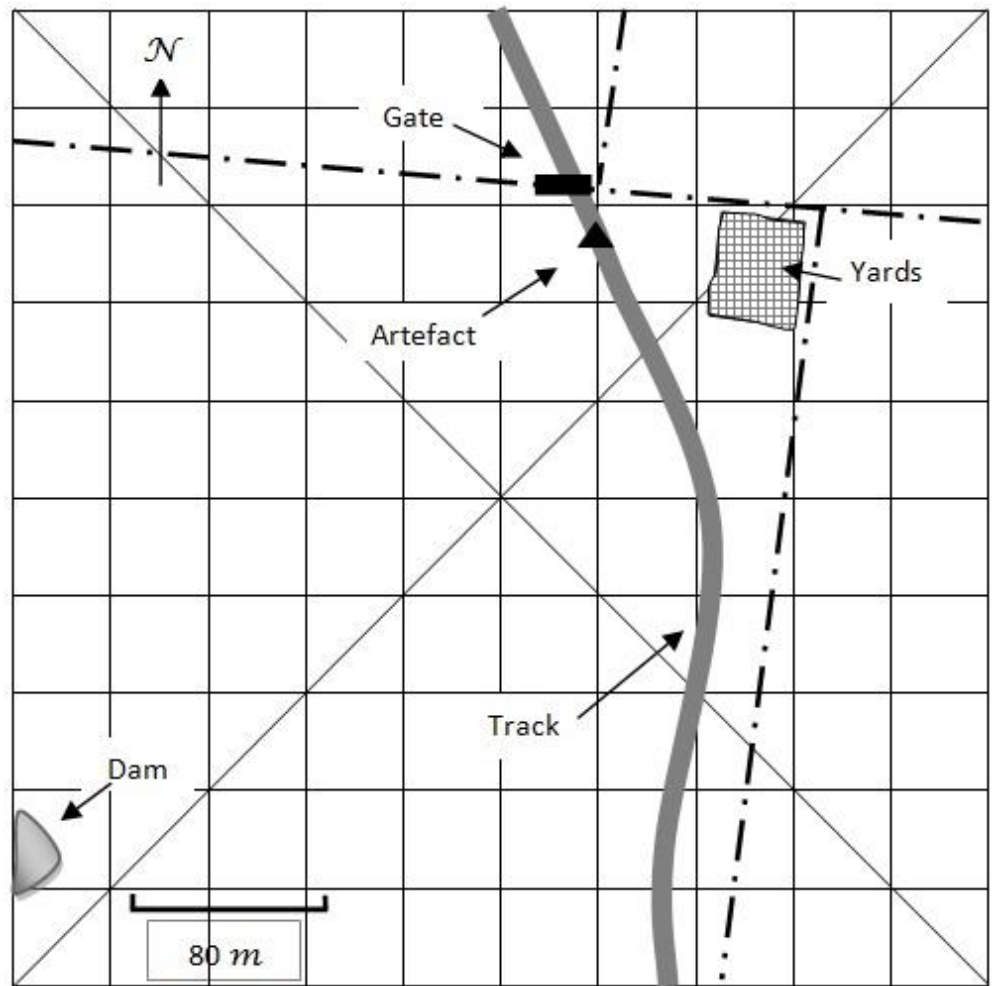
Aboriginal object locale ID: CRWF Survey Unit 17/Locale 1 (CRWF SU17/L1)  
Grid reference(GDA): Zone 55: E750430 N6353858  
Description: This locale is situated in Survey Unit 17 on a crest of a broad, undulating plateau landform. The aspect is to the north and gradient very gentle (2°). The site is in a paddock used for sheep grazing. Three stone artefacts were recorded on a vehicle track in an area measuring approximately 4 x 2 metres (8 sq m):

- Tuff flake; 33mm x 30mm x 15mm;
- Tuff core fragment; 71mm x 20mm x 14mm;
- Tuff proximal flake portion; 28mm x 26mm x 9mm.

Photograph: 27<sup>th</sup> September 2011; CRWF SU17/L1 taken facing to 230°.



CRWF SU17/L1



Aboriginal object locale ID: CRWF Survey Unit 17/Locale 2 (CRWF SU17/L2)  
Grid reference(GDA): Zone 55: E750460 N6353723  
Description: This locale is situated in Survey Unit 17 on a crest of a broad, undulating plateau landform. The aspect is to the west and gradient gentle (3°). The site is in a paddock used for sheep grazing. One stone artefact was recorded on a vehicle track:  
○ Tuff flake; 33mm x 28mm x 8mm.

Photograph: 27<sup>th</sup> September 2011; CRWF SU17/L2 taken facing to 180°.



CRWF SU17/L2



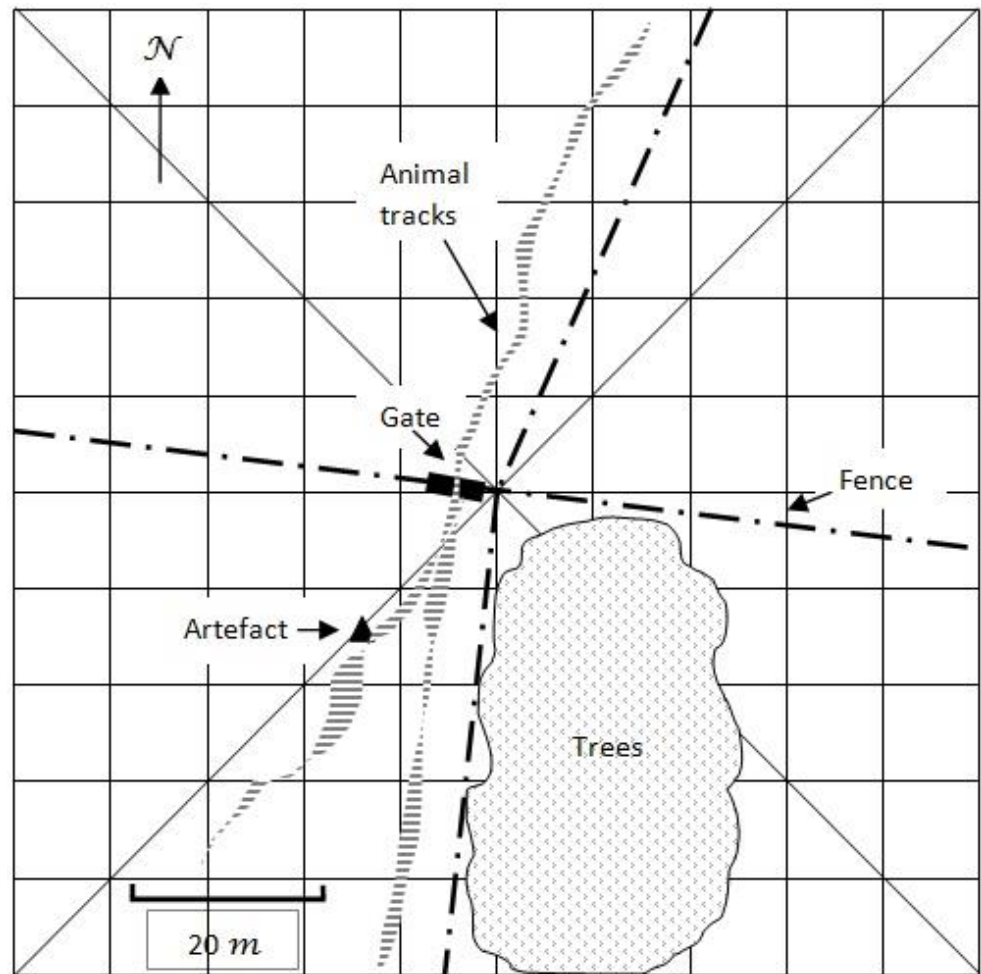
Aboriginal object locale ID: CRWF Survey Unit 17/Locale 3 (CRWF SU17/L3)  
Grid reference(GDA): Zone 55: E749878 N6352403  
Description: This locale is situated in Survey Unit 17 on a crest of a broad, undulating plateau landform. The aspect is open and gradient very gentle (0-1°). The site is in a paddock used for sheep grazing. One stone artefact was recorded on a vehicle track:

- Tuff flake; 50mm x 35mm x 18mm (broken in 2 pieces).

Photograph: 27<sup>th</sup> September 2011; CRWF SU17/L3 taken facing to 180°.



CRWF SU17/L3

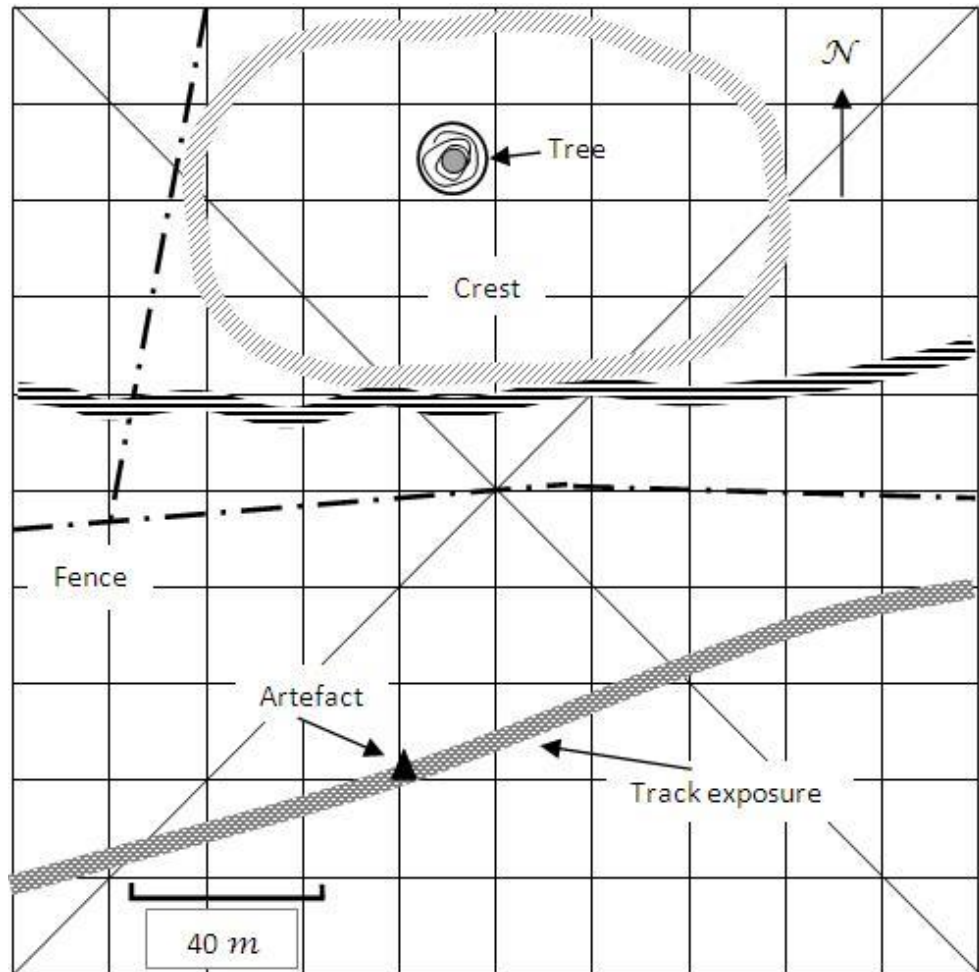


Aboriginal object locale ID: CRWF Survey Unit 18/Locale 1 (CRWF SU18/L1)  
Grid reference(GDA): Zone 55: E758305 N6356311  
Description: This locale is situated in Survey Unit 18 on a simple slope. The aspect is northerly and gradient very gentle (2°). The site is in a paddock used for sheep grazing. One stone artefact was recorded on a vehicle track:  
○ Tuff flake fragment; 45mm x 43mm x 15mm.

Photograph: 26<sup>th</sup> September 2011; CRWF SU18/L1 taken facing to 230°.



CRWF SU18/L1





Aboriginal object locale ID: CRWF Survey Unit 18/Locale 2 (CRWF SU18/L2)  
Grid reference(GDA): Zone 55: E758186 N6356129  
Description: This locale is situated in Survey Unit 18 on a simple slope. The aspect is northerly and gradient gentle (4°). The site is in a paddock used for sheep grazing. Four stone artefacts were recorded on a vehicle track in an area measuring 10m x 2m (20 sq m):

- Chert flake, 18mm x 35mm x 10mm;
- Chert flake fragment ; 18mm x 14mm x 4mm;
- Chert flake ; 22mm x 23mm x 8mm;
- Tuff flake fragment; 18mm x 34mm x 9mm.

Photograph: 26<sup>th</sup> September 2011; CRWF SU18/L2 taken facing to 230°.



CRWF SU18/L2

