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**A R C H A E O L O G Y**



# WALLERAWANG POWER STATION WALLERAWANG, NSW

CONSTRUCTION HERITAGE MANAGEMENT PLAN

**DRAFT REPORT**

Liberty Industrial Pty Ltd

13 April 2021



**LIBERTY INDUSTRIAL**

## DOCUMENT INFORMATION

Project:	Wallerawang Power Station
Services required:	Construction Heritage Management Plan
Client:	Liberty Industrial
Prepared by:	Jasmine Weston
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# 1. INTRODUCTION

Austral Archaeology (Austral) has been commissioned by Liberty Industrial to undertake a Construction Heritage Management Plan (CHMP) for Heritage Items in the Vicinity of the Wallerawang Power Station (WPS) for the demolition of the WPS. This CHMP has been prepared to address the requirements of the Development Consent (DC) [DA015/19] and all applicable legislation related to the project.

## 1.1 PROJECT BACKGROUND

The CHMP for the WPS forms part of the Statement of Environmental Effects to manage the impacts on Aboriginal and non-Aboriginal heritage during the Liberty Industrial during the demolition of the WPS. As part of the DA, the Wallerawang Power Station Demolition Statement of Environmental Effects was published discussing the potential environmental impacts of the demolition program on the project. These documents were consulted for this report:

- Wallerawang Power Station Demolition; Statement of Environmental Effects (Aurecon 2018)
- Proposed Demolition and Deconstruction of Wallerawang Power Station (DA015/19)

## 1.2 STUDY AREA

The study area consists of the WPS site (Lot 1 DP1134955, Lot 2 DP 1131955, Lot C DP 39440, Lot D 39440, Lot 171 DP 1131952, Lot 11 DP1139978, Lot 100 DP1043966, Lot 91 DP 1043967, and DP2264448). It is located approximately 14 kilometres from Lithgow and 190 Kilometers west of Sydney (Figure 1). Within the study area, there are two recorded Aboriginal Sites; an isolated artefact findspot (WPSIFS1) and a potential archaeological deposit (PAD) recorded as WSPAD2). There is one recorded heritage item; Wallerawang Chimney Stack A.

**Table 1-1 Recorded Aboriginal sites and listed Heritage Items within the study area.**

Recorded Aboriginal Sites	Location	AHIMS No.
WSPAD2	Central part of the study area.	Not registered on AHIMS.
WPSIF1	Northwestern part of the study area.	45-1-2800
Listed Heritage Items	Location/address	Listing No.
Wallerawang Chimney Stack A	Located within the western side of the study area.	3431007

**Table 1-2 Recorded Aboriginal sites and listed Heritage Items outside the study area.**

Recorded Aboriginal Sites	Location	AHIMS No.
WPSAD1	Located north of the study area, near the Castlereagh Highway	Not registered on AHIMS.
Listed Heritage Items	Location/address	Listing No.
Braemai	10 Wolgan Street, Wallerawang	Item 193 LLEP
Church of St John the Evangelist	140 Main Street	SHR 01702; Item 112 LLEP
Cottage	25 Wolgan Street, Wallerawang	Item 195 LLEP
Cottage and Stone Barn	10 Skelly Road	Item 196 LLEP
Former Wallerawang Public School	121-123 Main Street, Wallerawang	Item 225 LLEP
Meadowside	13 Wolgan Street, Wallerawang	Item 192 LLEP
Old Wallerawang School (former National School)	Across Main Street to the north-west of the study area.	Item 113 LLEP

Recorded Aboriginal Sites	Location	AHIMS No.
Stone Viaduct Cox's River	Over Coxs River, east of the main power station buildings.	SHR 01064; Item 440 LLEP
The Cottage	110 Skelly Road	Item 191 LLEP
Uniting Church	23 Wolgan Street, Wallerawang	Item 195 LLEP

### 1.3 GENERAL SCOPE OF WORKS

The scope of works is for the demolition and remediation of the WPS. Some features of the extant structures will be removed using a range of methods. The scope of works includes the following:

- Decommissioning and salvage of the WPS buildings
- Demolition of some structures using a range of methods
- Rehabilitation of the site (above ground only)

#### 1.3.1 AREA OF WORKS

The study area will be divided into structures that are to remain and structure to be demolished. this can be seen in Figure 2.

#### 1.3.2 DEMOLITION WORKS

Liberty industrial will demolish exiting building structure and associated civil infrastructure, utility services. This works will involve

- Isolating mechanical and electrical plant equipment and removing process materials including fuel, water, chemicals, oils, grease and gases.
- Soft stripping all hazardous material, controlled waste, building furniture, fixtures, fittings and any items that can be recycled or reused
- Dismantling and demolition of structures and buildings as seen in Figure 2 as far as practicable. The majority of the structures will be mechanically demolished. The chimneys will be demolished using explosive charges.
- Asbestos or asbestos-containing material will be identified using a unique identified and will be de removed from the site. Structures with asbestos material will be decontaminated.

#### 1.3.3 REHABILITATION WORKS

- The demolition will remove the selected buildings above-ground structures only (Figure 2). Ay structure or equipment that it's located at or below ground level will remain in situ. A seperate rehabilitation management plan will be developed and implemented to ensure the site is left in a stable condition.

#### 1.3.4 HERITAGE WORKS

The known impact on all heritage items within the site and in the surrounding vicinity is limited to vibration effects from the blasting required to demolish the chimneys. There is also the possibility of sites being damaged by machinery moving around the site, particularly for WPSPAD2 and WPSIF1. As of the writing of this report, there are no other known impacts on heritage items.

### 1.4 ENVIRONMENTAL MANAGEMENT DOCUMENT SYSTEM

The CHMP is part of Liberty Industrial's environmental management framework for the project. Mitigation measures identified within CHMP will be incorporated into the Blast Management Plan for the project.

### 1.5 PURPOSE AND OBJECTIVES

This CHMP has been prepared to meet the requirements of the DC [DA015/19] for the demolition phase of the project.

## 1.6 CONTRIBUTORS

This report was prepared by Jasmine Weston (Archaeologist, Austral) with oversight from David Marcus (Director, Austral). Alexander Beben (Director, Austral) reviewed the report for quality and technical quality.

## 1.7 LIMITATIONS OF THE REPORT

The report must be read in conjunction with the Blast Management Plan and Statement of Environmental Effects (SEE) as it refers to supporting documentation not included within this report. It does not include an assessment of Aboriginal cultural heritage that may be present within the study area.

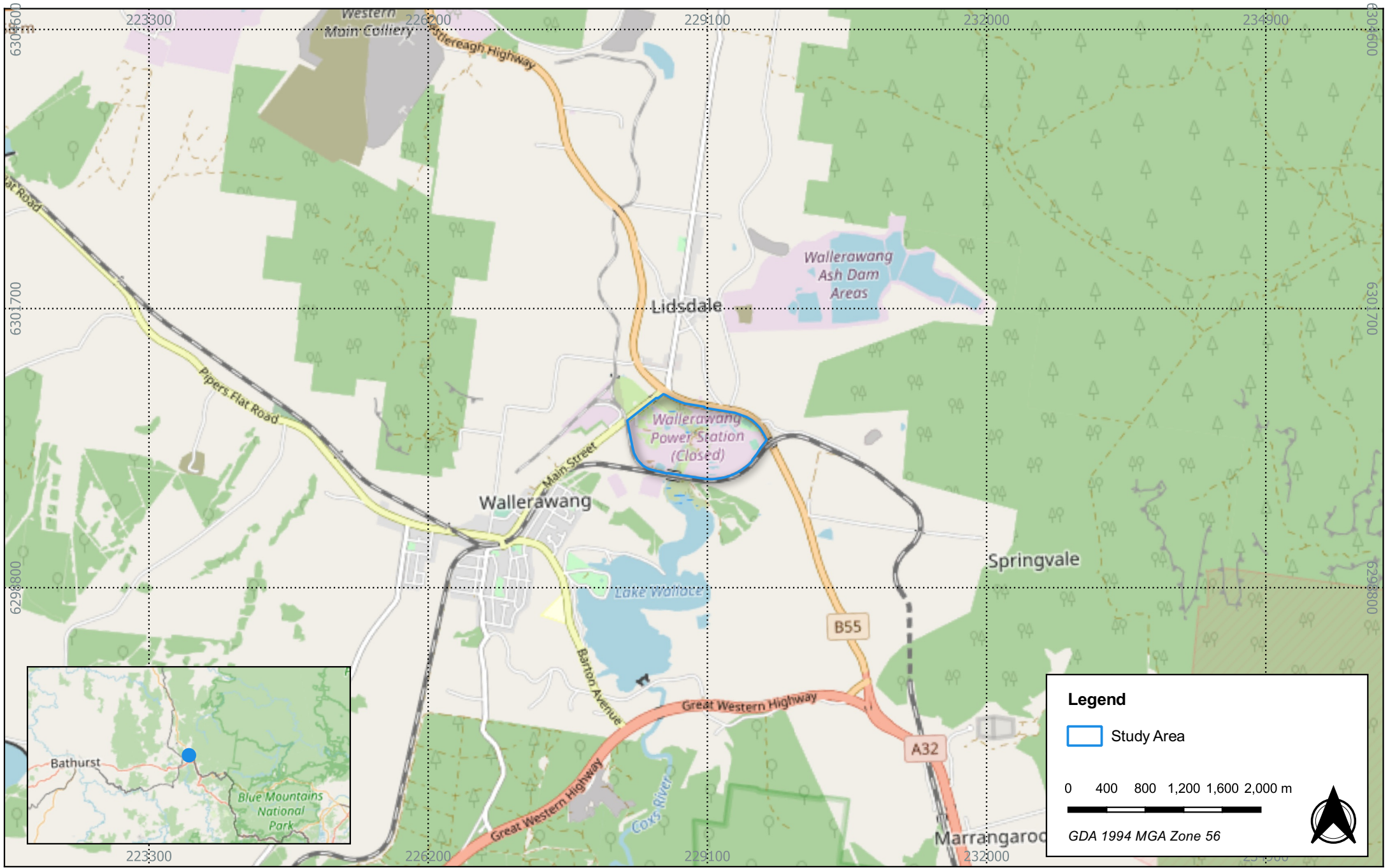
The results, assessments and judgements contained in this report are constrained by the standard limitations of historical research and by the unpredictability inherent in archaeological zoning from the desktop. Whilst every effort has been made to gain insight into the historical values of the study area, Austral cannot be held accountable for errors or omissions arising from such constraining factors.

## 1.8 ABBREVIATIONS

The following are common abbreviations that are used within this report:

Austral	Austral Archaeology Pty Ltd
Burra Charter	<i>Burra Charter: Australia ICOMOS Charter for Places of Cultural Significance 2013</i>
CBD	Central Business District
CHL	Commonwealth Heritage List
CHMP	Construction Heritage Management Plan
Consultation Requirements	<i>Aboriginal cultural heritage consultation requirements for proponents 2010</i>
DA	Development Application
DCP	Development Control Plan
DDR	Decommissioning, demolition and rehabilitation project
DPC	Department of Premier and Cabinet
E	Early works
EnergyAustralia	EnergyAustralia Pty Ltd
EPA Act	<i>Environmental Planning and Assessment Act 1979</i>
EPBC Act	<i>Environmental Protection and Biodiversity Act 1999</i>
EPI	Environmental Planning Instrument
Heritage Act	<i>NSW Heritage Act 1977</i>
ICOMOS	International Council on Monuments and Sites
IHO	Interim Heritage Order
LCC	Lithgow City Council
LEP	Local Environmental Plan
LGA	Local Government Area
LLEP	<i>Lithgow Local Environmental Plan 2014</i>
NHL	National Heritage List
NPW Act	<i>National Parks and Wildlife Act 1974</i>
PAD	Potential archaeological deposit
PE	Pre works
RNE	Register of the National Estate
SEE	Statement of Environmental Effects
SHI	State Heritage Inventory
SHR	State Heritage Register
Study Area	Wallerawang Power Station
The Code	<i>The code of practice for the investigation of Aboriginal objects in New South Wales 2010</i>
The Proponent	Liberty Industrial
WPS	Wallerawang Power Station

Refer also to the document Heritage Terms and Abbreviations, published by the Heritage Office and available on the website: <http://www.environment.nsw.gov.au/heritage/index.htm>.



**Figure 1 Location of the study area**

21006 Wallerawang Power Station - Blast Management Plan

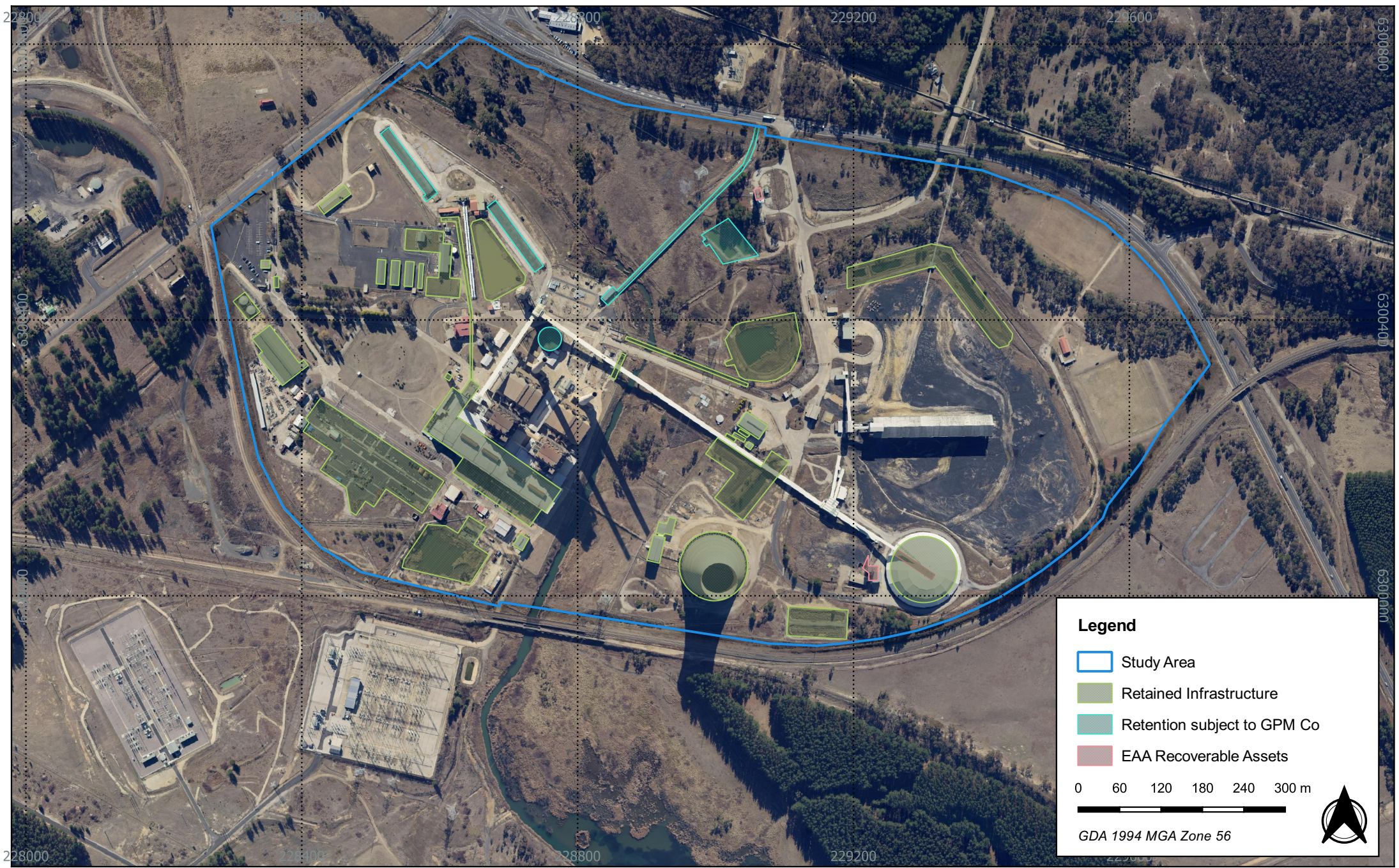
Source: OpenStreetMap

Drawn by: WA Date: 2021-03-11



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**Figure 2 Area of Works**

21006 Wallerawang Power Station - Blast Management Plan

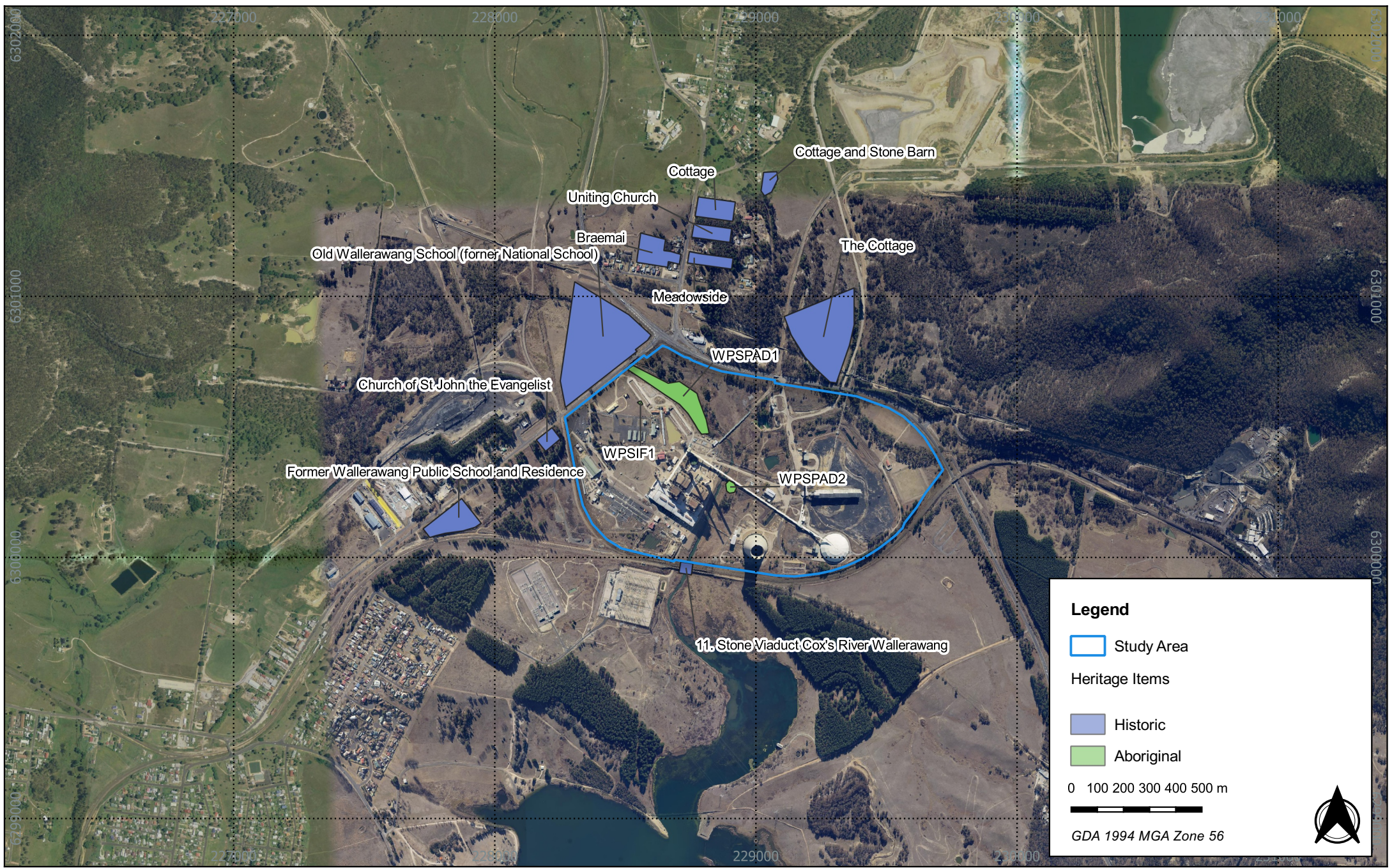
Source: OpenStreetMap

Drawn by: WA Date: 2021-03-11



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**Figure 3 Heritage items in the vicinity of the study area**

21006 Wallerawang Power Station - Blast Management Plan

Source: NSW LPI Aerial, NSW SHI

Drawn by: WA Date: 2021-03-11



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## 2. ENVIRONMENTAL REQUIREMENTS

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The following section outlines the environmental requirements for this project, including the relevant legislation and guidelines which have been used to assist in the formulation of this CHMP.

### 2.1 RELEVANT LEGISLATION AND GUIDELINES

Legislation relevant to heritage management includes:

- Environmental Planning and Assessment Act 1979 (EP&A Act)
- National Parks and Wildlife Act 1974 (NPW Act)
- Heritage Act 1977 (Heritage Act)
- Environment Protection Biodiversity Conservation Act 1999
- Aboriginal and Torres Strait Islander Heritage Protection Act 1984

The main guidelines, specifications and policy documents relevant to this CHMP include:

- Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW, 2010) [Consultation Requirements]
- Altering Heritage Assets (Heritage Office and DUAP 1996)
- Assessing Significance for Archaeological Heritage Sites and Relics (NSW Heritage Branch Department of Planning)
- Archaeological Assessment Guidelines (NSW Heritage Office and NSW Department of Urban Affairs and Planning 1996)
- How to Prepare Archival Recording of Heritage Items (Heritage Office, 1998)
- Photographic Recording of Heritage Items Using Film or Digital Capture (Heritage Office 2006)
- The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance (2013)
- The code of practice for the investigation of Aboriginal objects in New South Wales 2010 (DECCW, 2010) [The Code].
- Lithgow Local Environmental Plan (2014)

### 2.2 DA CONDITIONS OF APPROVAL

The DA conditions relevant to this CHMP are listed below in Table 2-1, this includes references to the ways that these have been addressed within this document.

**Table 2-1 Summary of heritage register listings for the subject study area.**

CoA No.	Condition Requirements	CHMP reference
<b>Deferred Commencement Conditions Relating to the DA</b>		
Schedule A 1.	<p>1. The Applicant is required to prepare and submit to Council for approval the following plans relating to the demolition of the Wallerawang Power Station site:</p> <p>a) Blast Management Plan including;</p> <p>i. A Traffic Control Plan for the Great Western Highway, Castlereagh Highway and Main Street to be prepared in conjunction with the RMS and Lithgow Council</p> <p>ii. A Heritage Management Plan to protect the Church of St. John the Evangelist, the Stone Viaduct over the Coxs River and Wallerawang Power Station Chimney Stack A from damage during blasting operations</p>	<p>N/A</p> <p>Strategy 5</p>
<b>Conditions of Consent (Consent Authority)</b>		
Schedule A 1.F	<p>Heritage Management Strategy incorporating details of measures to protect the following listed properties and nominated Aboriginal Heritage sites namely:</p> <ul style="list-style-type: none"> <li>• Aboriginal Heritage Sites - WPSIFI, WPSPAD1, WPSPAD2</li> <li>• Braemai - Item 193 LLEP</li> <li>• Church of St John the Evangelist -State SHR 01702; Item 112 LLEP</li> <li>• Cottage and Stone Barn - Item 196 LLEP</li> <li>• Cottage - Item 195 LLEP</li> <li>• Former Wallerawang Public School -Item 225 LLEP</li> <li>• Meadowside - Item 192 LLEP</li> <li>• Old Wallerawang School (former National School) - Item 113 LLEP</li> <li>• Stone Viaduct Cox's River - State SHR 01064; Item 440 LLEP</li> <li>• The Cottage - Item 191 LLEP</li> <li>• Uniting Church - Item 195 LLEP</li> <li>• Wallerawang Chimney Stack A (State)</li> </ul>	<p>Strategy 5</p> <p>Strategy 8</p> <p>Strategy 7</p> <p>Strategy 8</p> <p>Strategy 8</p> <p>Strategy 8</p> <p>Strategy 8</p> <p>Strategy 8</p> <p>Strategy 8</p> <p>Strategy 7</p> <p>Strategy 8</p> <p>Strategy 8</p> <p>Strategy 6</p>
Schedule B 98.	<p>The Applicant must prepare and provide to JHR a Heritage Management Strategy prior to commencement of any works involved in the Proposal. The Strategy must contain information identifying each heritage items that are currently managed by JHR and potential impacts on each item due to the demolition activities including blasting and dust emission. In addition, the Strategy must provide information the extent of damage to each item and hold points associated with damage to ensure that they are not irreparably damaged. Finally, it must provide the Applicant's commitments to repair all damage to each item in consultation with the relevant heritage authorities.</p>	Strategy 6, 7
Schedule B 107.	<p>The 'safeguard and mitigation measures' outlined in the Statement of Environmental Effects are to be adhered to to prevent damage to listed heritage items.</p>	Strategy 6, 7, 8

CoA No.	Condition Requirements	CHMP reference
Schedule B 108.	A Heritage Management Strategy (for conservation, future ownership, maintenance, interpretation) and archival recording of the site, as outlined in the SEE, is to be undertaken, submitted and approved by Council prior to any works commencing on the site.	Strategy 9, Strategy 10

## 2.3 REQUIRED OUTCOMES

Based upon the DA a list of the required outcomes, the following Table 2-2 addresses these and provides a reference to these outcomes both within this CHMP and the DC.

**Table 2-2 DA required outcomes**

Outcome	DC Ref #	Timing	CHMP reference
Strategy 1: Heritage Inductions	Schedule B 107.	Prior to works commencing on site	Strategy 1
Strategy 2: Unexpected Aboriginal Finds	Schedule B 108.	Continuously during works	Strategy 2
Strategy 3: Unexpected non-Aboriginal Finds	Schedule B 108.	Continuously during works	Strategy 3
Strategy 4: Procedure to follow in the event of unexpected human remains	Schedule B 108.	Continuously during works	Strategy 4
Strategy 5: Aboriginal items managed by the client	Schedule A 1.F	Continuously during works	Strategy 5
Strategy 6: Non-Aboriginal items managed by the client	Schedule A 1.F	Continuously during works	Strategy 6
Strategy 7: Non-aboriginal items located near the study area	Schedule B 98., Schedule B 108.	Continuously during works	Strategy 7
Strategy 8: Non-Aboriginal items located further from the study area	Schedule B 98., Schedule B 108.	Continuously during works	Strategy 8
Strategy 9: Archival Recording	Schedule B 108.	Completed prior to works	Strategy 9
Strategy 10: Interpretation	Schedule B 108.	Complete post works or when plans for study area have been formalised	Strategy 10

## 3. EXISTING HERITAGE SITES

Austral has been commissioned to create a Blast Management Plan for Heritage Items that are located within or within close vicinity to the study area. This includes recorded AHIMS sites and historical heritage items that have been recorded on the SHR and the Lithgow LEP. The following sections summarise what is known about Aboriginal and Non-Aboriginal sites within and adjacent to the study area.

### 2.4 ABORIGINAL CULTURAL HERITAGE

The aboriginal cultural heritage values were subject to assessment through the following process:

- Literature and database review
- Archaeological survey
- Assessment of significance and proposed impacts

Based on these tasks two sites were identified within the study area (Table 3-1) and one site was recorded adjacent to the study area (Table 3-2).

**Table 3-1 Aboriginal sites recorded in the study area.**

Site	Description	Significance	
		Burra Charter	CHL
WSIF1	An isolated artefact site located within the north-west area of the site. The site was recorded as being in poor condition. As of the 2021 survey the site was covered in short grass with no visible artefacts visible.	Low	No
WPSPAD2	Area of PAD located on the east side of Cox's river near to the WPS main buildings. Currently, the site is covered with long grass with no visible ground surface.	Low	No

**Table 3-2 Aboriginal Sites recorded in the vicinity of the study area**

Site	Description	Significance	
		Burra Charter	CHL
WPSPAD12	Area of PAD located to the north side of the study area just outside of the fence line. The site is currently covered in long grass with no ground surface visible.	Low	No

### 2.5 Non-Aboriginal Heritage

The assessment of non-Aboriginal heritage values within and adjacent to the study area was undertaken by the completion of the following tasks:

- Literature and database review
- Assessment of the built and non-built environment
- Assessment of the heritage significance and heritage impacts for individual items.

The steps taken identified the one heritage item within the study area (Table 3-3) and nine heritage sites within the surrounding vicinity (Table 3-4).

**Table 3-3 Non-Aboriginal sites recorded within the study area.**

Name (Listing)	Description	Significance	Distance from WPS
Wallerawang A and B Power Stations chimney stack (SHR Listing # 3431007)	Reinforced concrete stack	State	Located within the site, only Stack A remains

**Table 3-4 Non-Aboriginal Sites recoded in the vicinity of the study area**

Name (Listing)	Description	Significance	Distance from WPS (m)
Braemai (Item 193 LLEP)	Stone cottage	Local	763
Church of St John the Evangelist (SHR 01702; Item 112 LLEP)	Bluestone church building	State	52 (adjacent)
Cottage (Item 195 LLEP)	Stone cottage	Local	593
Cottage and Stone Barn (Item 196 LLEP)	1950s timber cottage and stone barn	Local	966
Former Wallerawang Public School and Residence	Timber and stone school building and associated residence.	Local	472
Meadowside (Item 192 LLEP)	Timber cottage	Local	793
Old Wallerawang School (former National School) (Item 113 LLEP)	Limestone school building	Local	70
Stone Viaduct Cox's River (SHR 01064; Item 440 LLEP)	Sandstone viaduct over Cox's river	Local	63
Uniting Church (Item 194 LLEP)	Limestone church building	Local	936



## 4. ASPECTS, RISKS AND IMPACTS

**Table 4-1 Impacts of demolition on Aboriginal Sites within and near to the study area**

Site no	Location	Type of harm	Degree of harm	Consequence of harm
<b>WSIF1</b>	Located on grass area within the northeastern part of site.	Vibration effecting site	Low	Little to no harm to site.
<b>WPSPAD2</b>	Located on the west of Cox's river within the southwestern part of site.	Vibration effecting site	Low	Little to no harm to site.
<b>WPSPAD1</b>	Outside of the project area	Vibration effecting site	Low	Little to no harm to site.

**Table 4-2 Impacts of demolition on non-Aboriginal Sites within and near to the study area**

Site ID	Location relative to indicative concept layouts	Aspects of the project that respect or enhance the item's heritage significance	Aspects that could detrimentally affect the item's heritage significance	Resultant impact of the items heritage significance
Wallerawang A and B Power Stations chimney stack (SHR Listing # 3431007)	Outside of demolition footprint	The item is being retained as a relic of the power station site	The context of the power station will be significantly decreased leaving this as large elements of the power station are removed.	There will be a loss in significance in terms of its historical association.
Church of St John the Evangelist (SHR 01702; Item 112 LLEP)	Outside of demolition footprint	The aesthetic of the church will be increased as significant industrial buildings are removed from its vicinity.	The short-term demolition of WPS will decrease the look aesthetic of the external church. The building may be damaged during the demolition process by vibrations from the blast.	There will be an increase in significance as the power station is diminished drawing focus back to the church.
Stone Viaduct Cox's River (SHR 01064; Item 440 LLEP)	Outside of demolition footprint	The aesthetic value of the viaduct will be improved by removed of some of the heavy industrial buildings	The short-term demolition process will minimise the asthenic value of the viaduct. Additionally, the demolition process may damage the viaduct with vibrations from the blast.	There will be an increase in significance as WPS diminished drawing focus back to the viaduct.

Site ID	Location relative to indicative concept layouts	Aspects of the project that respect or enhance the item's heritage significance	Aspects that could detrimentally affect the item's heritage significance	Resultant impact of the items heritage significance
Old Wallerawang School (former National School) (Item 113 LLEP)	Outside of demolition footprint	The aesthetic value of the school will be improved as sections of WPS from the western view of the power station	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be an increase in significance as WPS is demolished from the western facing view from the item.
Meadowside (Item 192 LLEP)	Outside of demolition footprint	Not applicable/none	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be minimal change to the significance of the item as WPS is demolished from the north-facing view from the item.
Braemai (Item 193 LLEP)	Outside of demolition footprint	Not applicable/none	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be minimal change to the significance of the item as WPS is demolished from the north-facing view from the item.
Cottage and Stone Barn (Item 196 LLEP)	Outside of demolition footprint	Not applicable/none	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be no change to the cottage and stone barn as WPS cannot be seen from the item.
Uniting Church (Item 194 LLEP)	Outside of demolition footprint	Not applicable/none	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be minimal change to the significance of the item as WPS is demolished from the north-facing view from the item.
Cottage (Item 195 LLEP)	Outside of demolition footprint	Not applicable/none	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be minimal change to the significance of the item as WPS is demolished from the north-facing view from the item.
Former Wallerawang Public School and Residence	Outside of demolition footprint	Not applicable/none	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be no change to the cottage and stone barn as WPS cannot be seen from the item.

Site ID	Location relative to indicative concept layouts	Aspects of the project that respect or enhance the item's heritage significance	Aspects that could detrimentally affect the item's heritage significance	Resultant impact of the items heritage significance
The Cottage (Item 191 LLEP)	Outside of demolition footprint	Not applicable/none	The demolition process for WPS may detrimentally affect the heritage item through vibrations affecting the structure.	There will be minimal change to the significance of the item as WPS is demolished from the north-facing view from the item.

## 5. MITIGATION MEASURES

A range of environmental requirements relating to heritage has been identified in the DA. Specific mitigation measure to address the impacts on both Aboriginal and non-Aboriginal heritage have been outlined in Table 4-3.

**Table 4-3 Construction related measures (note PE = pre - early works, E = Early works)**

Strategy	Requirement	Timing		Responsibility
		PE	E	
Inductions and management process				
1	Heritage inductions during overall site induction	X	X	Project manager
2	Procedures to follow in the event of an unexpected Aboriginal find	X	X	Project manager
3	Procedures to follow in the event of an unexpected non-Aboriginal find	X	X	Project Manager
4	Procedure to follow in the event that human remains are discovered	X	X	Project Manager
Aboriginal and non-Aboriginal investigations				
5	Protecting existing Aboriginal sites during works	X		Project manager
5	Protecting existing non-Aboriginal sites during works	X		Project Manager

### STRATEGY 1: HERITAGE INDUCTIONS AND TOOLBOX TALKS

All contractors and Liberty Industrial staff working on the WPS site will undergo induction training relating to Aboriginal and non-Aboriginal heritage management issues. This induction training will address issues relayed to heritage management including:

- The Requirements of the Development Application and relevant legislation.
- The roles and responsibilities for heritage management.
- The locations of the identified sites, both within and external to the site and the no go zones for each site. The identified heritage values in Figure 3 constitute no-go areas for all staff working on the project
- Proposed heritage management and protection measures for the sites within the study area.
- Basic identification for artefacts, both Aboriginal and non-Aboriginal, and human remains.
- Specific training for personal working within the vicinity of Aboriginal and Non-Aboriginal heritage items identified in Figure 3.
- The procedure to follow in the event of unexpected heritage finds during construction works.

- Procedure to follow in the event of finding an unexpected heritage item during construction works.
- Procedure to follow in the event of finding human remains during construction works.
- Penalties and non-compliance with the conditions of the DA.

A training register for all project personal will be kept and maintained detailing names dates, content and type of training undertaken. A copy of the DA should be kept on-site at all times and be reasonably accessible to all personal.

Heritage requirements of the DA and the unexpected finds protocols should be incorporated into toolbox talks. This will be especially important when works are commencing in the vicinity of the heritage items or sites. The mapping present in this report showing the location of the heritage items should be reviewed and management measures assess to ensure that no impacts beyond the vibrations of the demolition are likely to take place.

## **STRATEGY 2: PROCEDURE TO FOLLOW IN EVENT OF UNEXPECTED ABORIGINAL FINDS**

The DA does not allow for any impacts to the study area beyond the unavoidable vibrational impacts to the study area and beyond. Where additional objects are identified an assessment will need to be made to determine the significance of the objects.

Appendix A contains guidelines around the identification of Aboriginal objects. The National Parks and Wildlife Act 1974 defines an Aboriginal object as:

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

For unexpected finds the following process should be followed:

- In the event that any unexpected Aboriginal objects are encountered during works associated with this DA, works in that vicinity of the item must cease and the find should not be moved until assessed by a qualified archaeologist.
- The qualified archaeologist will investigate and assess the Aboriginal object to determine the find nature, extent and significance. This will allow for recommendations to be provided on how work can proceed and if any further work will be required. The archaeologist must supply written advice to the Project manager within 24 hours of the investigation that states:
  - The determination if the item is Aboriginal or not
  - Advice on whether the project can proceed and is the establishment of any no-go areas is necessary.
  - Recommendations for further works that may be required and a timeframe for the completion of these works.
- Lithgow City Council, Heritage NSW and Aboriginal stakeholder will be notified with a statement concerning the find, management measures that were implemented and the notification or any further works arising. Aboriginal stakeholders will be involved in any further assessment or works as required.

## **STRATEGY 3: PROCEDURE TO FOLLOW IN THE EVENT OF UNEXPECTED NON-ABORIGINAL FINDS**

There are no impacts on non-Aboriginal heritage items allowed within the DA aside from the unavoidable vibrational impacts to the study area and beyond. Where additional heritage items are identified and assessment into the significant of the item will need to be made. This will determine if the item is significant or not and if it will need to be recorded on a heritage register. A non-Aboriginal heritage item can include Archaeological relics or other non-Aboriginal items such as works, structures, buildings or moveable objects. A relic is defined in the Heritage Act 1977 as:

*“...any deposit, artefact, object or material evidence that relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and is of State or local heritage significance...”*

Should an unexpected item be found the following process should be followed:

- If any suspected non-Aboriginal items be encounter during works associated with this DA, woks in the visit of the item my cease and the find should not be moved until assessed by a qualified archaeologist
- The qualified archaeologist will investigate and assess the non-Aboriginal object to determine the find nature, extent and significance. This will allow for recommendations to be provided on how work can proceed and if any further work will be required. The archaeologist must supply written advice to the Project manager within 24 hours of the investigation that states:
  - The determination if the item is non-Aboriginal or not
  - Advice on whether the project can proceed and is the establishment of any no-go areas is necessary.
  - Recommendations for further works that may be required and a timeframe for the completion of these works.
- Depending on the outcome Lithgow City Council and NSW Heritage may need to be identified. This will include a statement concerning the find, management measures that were implemented and notification of any further works as a result.
- If any Aboriginal objects are identified this will trigger a review of the DA in accordance with Section 4.10 of the SEE.

#### **STRATEGY 4: PROCEDURE TO FOLLOW IN THE EVENT OF HUMAN REMAINS**

Should any suspected human remains be discovered during works, all activity in the area and surrounding vicinity must cease. The following processes must be taken:

- All works must immediately cease at that location.
- Do not further move or disturbed the remains
- As soon as practicably possible notify the NSW Police, Planning and infrastructure and NSW Heritage’s environmental line of 131 555, providing details of the remains and their location.
- Establish a no-go area in consultation with the NSW Police, NSW Heritage and, if necessary, a qualified archaeologist.
- Works in the area will not be able to recommence with the find location until confirmation is obtained for the NSW Police and NSW Heritage. If the remains are confirmed as not human works may recommence. In the event that the remains are found to be human then consultation with the NSW Police, NSW Heritage and the Aboriginal stakeholders should be undertaken to establish a plan of management.
- Works to be undertaken in the vicinity fo the find can only commence once the plan of management has been established and approval has been obtained from all relevant parties.
- If any human remains are identified this will trigger a review of the DA in accordance with Section 4.9 of the SEE.

#### **STRATEGY 5: PROTECTION FOR EXISTING ABORIGINAL ITEMS MANAGED BY THE CLIENT.**

There are several Aboriginal sites located within the study area and in the nearby vicinity that will need specific attention in regards to their protection. These sites are managed by Liberty Industrial:

- WPSIF1 (located in the north-west of the study area)



- WPSPAD1 (located adjacent to the northern boundary of the study area)
- WPSPAD2 (located east of Coxs River in the centre of the study area)

Based on the recommendations from Aurecon in the SEE (2018) the following should be undertaken to protect the sites.

- Exclusion zones shall be established around WPSIF1, WPSPAD1, and WPSPAD2 before the commencement of the proposed demolition works. This is to avoid any accidental damage to the sites. These exclusion zones should incorporate a 10-metre buffer within lands owned by EnergyAustralia.
- If the works are modified and will have an impact on the sites the following actions should be undertaken:
  - For WPSIF1, an Aboriginal Heritage Impact Permit (AHIP) will need to be obtained.
  - For WPSPAD1 and/or WPSPAD2, test excavations will need to be undertaken before the start of works. Should test excavations in these areas identify any Aboriginal objects, an AHIP will be required before the start of works.

## **STRATEGY 6: PROTECTION FOR EXISTING NON-ABORIGINAL ITEMS MANAGED BY THE CLIENT**

The non-Aboriginal heritage items located within and in the vicinity of the study area that are managed by the client will need protections and mitigation strategies to ensure there is no damage undertaken to heritage items. The vibrations from any blasting required has the possibility to cause damage to heritage items. This may include cracking, separation, flaking, and falling debris impacting the items. Within the study area there is a single recorded heritage item;

- Wallerawang Power Station Chimney Stack A (SHR listing # 3431007)

There is one item within that is managed by the client that may be impacted:

- Old Wallerawang School (former National School) - Item 113 LLEP

For the above items the following process must be followed:

Step 1: Do a pre-blast building assessment and install vibration monitors. This will establish a baseline for the post-blast inspection to be completed as part of Step 3.

- Step 2: Monitor buildings during blasting to ensure vibrations do not exceed safe limits.
- Step 3: Undertake a post-blast assessment of the building, noting any variation between the baseline identified in the pre-blast check. Check the vibration monitors to ensure that these have not exceeded safe limits.
- Step 4: Should any damage be identified as having to be caused by blasting this will need to be remediated. The Lithgow City Council should be contacted, and specialist heritage architect and or engineer consulted depending on the damage.
- Step 5: Complete a post-blast/post works clear up for the heritage items including cleaning any possible debris, dust or other possible construction material that may impact the heritage item.

Where required, blasting shall be planned and undertaken per the Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration (Australian and New Zealand Environment Council 1990)

## **STRATEGY 7: PROTECTION FOR EXISTING NON-ABORIGINAL ITEMS LOCATED NEAR TO THE STUDY AREA**

There are two non-Aboriginal heritage items located within the vicinity of the study area that will need protections and mitigation strategies to ensure there is no damage undertaken to them during the blasting. These are two items within close vicinity that may be impacted:

- St John the Evangelist Church.
- Stone Viaduct over Coxs River.

To protect these heritage items during the blast the following steps should be taken:

- Step 1: Do a pre-blast building external assessment. This will establish a baseline for the post-blast inspection to be completed as part of Step 3.
- Step 2: Monitor buildings managed by Liberty Industrial during blast to ensure vibrations do not exceed safe limits.
- Step 3: Undertake an external post-blast assessment of the building, noting any variation between the baseline identified in the pre-blast check. Check the vibration monitors located within buildings managed by Liberty Industrial to ensure that these have not exceeded safe limits.
- Step 4: Should any external damage be identified or the vibration monitoring record unsafe levels then Liberty Industrial should liaise with the heritage item owners to identify any damage to allow for remediation of the structure. The Lithgow City Council should be contacted, and specialist heritage architect and or engineer consulted depending on the damage.
- Step 5: Complete a post-blast/post works clear up for the heritage items including cleaning any possible debris, dust or other possible construction material that may impact the heritage item.

Liaison with the item's owners and Liberty Industrial will need to take place to manage the items. These items will need to be monitored before, during and post any blast works that are undertaken. Proactive measures should be undertaken including the installation of Vibration Loggers on each of these items. Archival recording has been undertaken before works commencing and should be continued during and post the demolition process. This should be undertaken in accordance with *Photographic Recording of Heritage Items Using Film or Digital Capture* (Heritage Office 2006).

Where required, blasting shall be planned and undertaken per the Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration (Australian and New Zealand Environment Council 1990)

## **STRATEGY 8: PROTECTION FOR EXISTING NON-ABORIGINAL ITEMS LOCATED FURTHER FROM THE STUDY AREA**

Further out from the study area are items that are owned privately by individuals or companies for which Liberty Industrial does not have direct responsibility. It is recommended that should the use of these items change significantly that a heritage management plan is written for that individual item. For the WPS demolition the following steps should be taken to ensure the protection of the heritage item:

- Step 1: Do a pre-blast building external assessment. This will establish a baseline for the post-blast inspection to be completed as part of Step 3.
- Step 2: Monitor buildings managed by Liberty Industrial during blast to ensure vibrations do not exceed safe limits.
- Step 3: Undertake an external post-blast assessment of the building, noting any variation between the baseline identified in the pre-blast check. Check the vibration monitors located within buildings managed by Liberty Industrial to ensure that these have not exceeded safe limits.
- Step 4: Should any external damage be identified or the vibration monitoring record unsafe levels then Liberty Industrial should liaise with the heritage item owners to identify any damage to allow for remediation of the structure. The Lithgow City Council should be contacted, and specialist heritage architect and or engineer consulted depending on the damage.
- Step 5: Complete a post-blast/post works clear up for the heritage items including cleaning any possible debris, dust or other possible construction material that may impact the heritage item.

## **STRATEGY 9: ARCHIVAL RECORDING**

An archival recording has been completed by Austral for the following heritage items:

- Aboriginal Heritage Sites - WPSIFI, WPSPAD1, WPSPAD2
- Braemai - Item 193 LLEP
- Church of St John the Evangelist -State SHR 01702; Item 112 LLEP
- Cottage and Stone Barn - Item 196 LLEP
- Cottage - Item 195 LLEP
- Former Wallerawang Public School -Item 225 LLEP
- Meadowside - Item 192 LLEP
- Old Wallerawang School (former National School) - Item 113 LLEP
- Stone Viaduct Cox's River - State SHR 01064; Item 440 LLEP
- The Cottage - Item 191 LLEP
- Uniting Church - Item 195 LLEP
- Wallerawang Chimney Stack A (State)

This archival recording confirms with the guideline *How to Prepare Archival Recording of Heritage Items* (Heritage Office 1998).

## **STRATEGY 10: INTERPRETATION STRATEGY**

The formulation of appropriate interpretive strategies relies upon the future use of the study area is known and public and private access being available. At present, the study area does not have an established future use and is closed for both private and public use. At this stage, it is not possible to formulate interpretive strategies. Based on the history and significance the following items should be considered as part of the future development of the site:

The Heritage Interpretation Plan (HIP) will aim to provide strategies and detailed advice for interpreting the heritage values of the study area. The objectives will be to:

- Facilitate the understanding and appreciation of the history of the study area.
- Communicate the meaning of the cultural significance of the study area to residents and passing members of the community.
- Ensure that the proposed interpretive infrastructure is sustainable to ensure its survival in the long-term.

The HIP will need to be formulated to address the Burra Charter (Australia ICOMOS 2013a), NSW Heritage Office guideline (NSW Heritage Office 2005) and ICOMOS Interpretation practice note (Australia ICOMOS 2013b).

## 6. COMPLIANCE MANAGEMENT

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### 2.6 ROLES AND RESPONSIBILITIES

The Liberty Industrial-organizational structure roles and responsibilities are outlined in Table 4-3.

### 2.7 AUDITING

Both internal and external audits will be undertaken to assess the effectiveness of the environmental controls, and other relevant approvals licenses and guidelines.

### 2.8 INCIDENTS

Should any incident occur that results in the actual or potential impacts on known heritage items and/or archaeological items that are discovered unexpected, the Lithgow City Council and other relevant government agencies will be notified per Strategies 2 and 3.

### 2.9 REPORTING

The reporting requirements and responsibilities of heritage-related issues should be documented following the environmental management process dictated in the DA.

## 7. REVIEW AND IMPROVEMENT

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Opportunities for the improvement of this CHMP will continue through the ongoing evaluation of the environmental management of the site during the demolition process against the SEE. The purpose of this is to:

- Identify opportunities for the improvement of environmental management and performance.
- Determine the reasons for any nonconformances or differences.
- Development and implementation of a plan of corrective and preventative actions to non-conformances and deficiencies in this CHMP.
- Document any changed procedures resulting from the improvement of processes.
- Revise the objectives and targets of this CHMP accordingly.

## 8. REFERENCES

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Aurecon 2018, *Wallerawang Power Station Demolition; Statement of Environmental Effects*.

Australia ICOMOS 2013a, *The Burra Charter: the Australia ICOMOS Charter for Places of Cultural Significance*, Australia ICOMOS, Burwood, VIC.

Australia ICOMOS 2013b, 'Practice Note: Interpretation'.

Australian and New Zealand Environment Council 1990, *Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration*, <<https://www.environment.nsw.gov.au/resources/noise/anzecblasting.pdf>>.

Heritage Office 1998, *How to prepare archival records of heritage items*, Heritage Office, Sydney, viewed 30 January 2019, <[http://www.heritage.nsw.gov.au/docs/info\\_archivalrecords.pdf](http://www.heritage.nsw.gov.au/docs/info_archivalrecords.pdf)>.

Heritage Office 2006, *Photographic recording of heritage items using film or digital capture.*, Heritage Office, Parramatta, NSW.

NSW Heritage Office 2005, 'Heritage Information Series: Interpreting Heritage Places and Items Guidelines.'