

# MANAGEMENT PLAN

## HISTORIC HERITAGE MANAGEMENT PLAN

### MAC-ENC-MTP-046



Version: 4.0| Released: 24/02/2022

Key Contact: Mark Nolan-Principal Approvals

## Table of Contents

<b>1. Preface</b>	<b>2</b>
<b>2. Legislation, Standards and Regulations</b>	<b>2</b>
<b>3. Purpose</b>	<b>3</b>
<b>4. Roles and Responsibilities</b>	<b>3</b>
<b>5. Consultation</b>	<b>4</b>
<b>6. Historic Heritage Assessments</b>	<b>4</b>
6.1. Summary of Previous Assessments and Plans	4
6.2. Impact Assessment	4
<b>7. Historic Heritage Sites and Relics within the Mt Arthur EA Boundary</b>	<b>4</b>
<b>8. Management and Mitigation Measures</b>	<b>7</b>
8.1 Conservation Management Plans	7
8.2 Relocation Plans	7
8.3 Beer Homestead Relocation Plan	7
8.4 Hospital Building Relocation	8
8.5 Programs/Procedures	8
8.5.1 Photographic and archival recording of potentially affected heritage items	8
8.5.2 Protection and monitoring of heritage items outside of disturbance area	8
8.5.3 Monitoring, notification and managing the effects of blasting on potentially affected heritage items	10
8.5.4 Additional archaeological excavation and/or recording of any significant heritage items requiring demolition	10
<b>9 Incident/Complaint Response</b>	<b>10</b>
<b>10 Plan Performance and Continual Improvement</b>	<b>11</b>
10.1 Plan Performance	11
10.2 Continual Improvement	11
<b>11 Reporting</b>	<b>11</b>
<b>12 Review</b>	<b>11</b>
<b>13 References</b>	<b>12</b>
13.1 External Documents	12
13.2 Mt Arthur Coal Internal Documents	12

## 1. Preface

Hunter Valley Energy Coal Pty Ltd (HVEC) operates the Mt Arthur Coal Mine Complex (Mt Arthur Coal) which consists of approved open cut and underground mining operations, a rail loop and associated rail loading facilities, in accordance with the Mt Arthur Coal Open Cut Consolidation Project Approval (09\_0062 MOD 1) dated 26 September 2014 (Project Approval). The operations are located in the Upper Hunter Valley, NSW, approximately five kilometres south west of Muswellbrook.

A full project description, including baseline data, history of operations, current operating philosophy and mining methods is provided in the Mt Arthur Coal Consolidation Project Environmental Assessment (EA) (Hansen Bailey, 2009) and Mt Arthur Coal Open Cut Modification Environmental Assessment (Resource Strategies, 2013).

## 2. Legislation, Standards and Regulations

Requirements and commitments associated with Historic Heritage are defined within the following key statutory approvals (the Approvals):

- Mt Arthur Coal Mine Open Cut Consolidation Project Modification 1 (09\_0062 MOD 1); and
- Mt Arthur Underground project approval 06\_0091 dated 2 December 2008.

A list of the relevant conditions of the Approval and where they are addressed in this Historic Heritage Management Plan (HHMP) is found in Appendix 4, Table 4.

The Approvals and subsequent amendments were assessed under the Environmental Planning and Assessment Act 1979 (NSW) (EP&A Act.).

Historic Heritage is managed to comply with the Heritage Act 1977. In New South Wales the protection and management of historic heritage is regulated under the Heritage Act 1977 (Heritage Act). The Heritage Act protects the natural and cultural history of NSW with emphasis on non-indigenous cultural heritage through protection provisions and the establishment of a Heritage Council.

The Heritage Act provides blanket protection for subsurface relics and for heritage items of state significance listed on the State Heritage Register (SHR). Under this act an historic 'relic' is defined as:

*Any deposit, artefact, object or material evidence that:*

- (a) relates to the settlement of the area that comprises New South Wales, not being Aboriginal settlement, and*
- (b) is of State or local heritage significance*

Under the Heritage Act 'a place, building, work, relic, moveable object or precinct' may have State and/or local 'significance' relating to historical, scientific, cultural, social, archaeological, architectural, natural or aesthetic value of the item.

The term 'historic feature' is used by heritage managers as a general term to describe any place, building, work, relic, moveable object or precinct with known or potential historic heritage significance.

In NSW, assessments of heritage significance are guided by the principles of the Burra Charter (1999) (the Australian ICOMOS Charter for places of Cultural significance) and the Heritage Office's publication Assessing Heritage significance (2001).

- The Heritage Office of NSW considers that an item will be considered to have State (or local) heritage significance if, in the opinion of the Heritage Council of NSW, it meets one or more of the following criteria:
- An item is important in the course, or pattern, of NSW's cultural or natural history.
- An item has strong or special association with the life or works of a person, or group of persons, of importance in NSW's cultural or natural history.
- An item is important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement in NSW.
- An item has strong or special association with a particular community or cultural group in NSW for social, cultural or spiritual reasons.
- An item has potential to yield information that will contribute to an understanding of NSW's cultural or natural history.
- An item possesses uncommon, rare or endangered aspects of NSW's cultural or natural history.
- An item is important in demonstrating the principal characteristics of a class of NSW's:
  - Cultural or natural places; or

- ii. Cultural or natural environments.

The Act defers to local planning instruments under the Environmental Planning & Assessment Act 1979 for the protection of items of local significance (“items of the environmental heritage”).

### 3. Purpose

This Historic Heritage Management Plan (HHMP), formerly referred to as the European Heritage Management Plan, has been prepared for Hunter Valley Energy Coal Pty Ltd.’s Mt Arthur Coal Complex to fulfil the historic heritage conditions and commitments of the modified Project Approval (PA) 09\_0062 dated 26 September 2014, and project approval 06\_0091 dated 2 December 2008. This HHMP specifically addresses the consent requirements of Schedule 3, Condition 45, clause (c) of PA 09\_0062 and Schedule 3, Condition 12 of PA 06\_0091, which are presented in Appendix 1.

The primary objective of this HHMP is to provide a framework to coordinate and manage the historic heritage items affected or potentially affected by the operation.

The objectives of this management plan are:

- To comply with the conditions associated with historic heritage management as outlined in the Project Approvals;
- Develop programs and procedures for managing historic heritage items affected or potentially affected by the operation, and identify, where required, individual conservation management plans and relocation plans as required;
- To mitigate the impacts of mine operations on Historic heritage; and
- To comply with the requirements of the *Heritage Act 1977*.

### 4. Roles and Responsibilities

Role	Responsibilities
<b>Principal Approvals:</b>	<ul style="list-style-type: none"> <li>• Develop and periodically review the Historic Heritage Management Plan.</li> <li>• Provide advice on implementation of the Plan.</li> </ul>
<b>Specialist Land and Property</b>	<ul style="list-style-type: none"> <li>• Implementation of Plan</li> </ul>

## 5. Consultation

This HHMP has been prepared in consultation with the Heritage NSW and the Department of Planning and Environment (DPE), local historical organisations, relevant landowners and Muswellbrook Shire Council (MSC) – see Appendix 3.

## 6. Historic Heritage Assessments

### 6.1. Summary of Previous Assessments and Plans

Comprehensive historic heritage assessments of land directly and potentially affected by mining activities and associated facilities and infrastructure have been conducted during the environmental assessment phases over the life of the project. The most recent historic heritage assessment is found in Appendix E Aboriginal and Non Indigenous Cultural Heritage Assessment (Resource Strategies 2013), Mt Arthur Coal Open Cut Modification', with further information provided in Appendix G 'Noise Assessment' (Resource Strategies 2013).

Earlier historic heritage assessments include Appendix L 'Non-Aboriginal Cultural Heritage Impact Assessment of the Mt Arthur Coal Consolidation Project Environmental Assessment (Hansen Bailey 2009), Appendix I (Carter 2000) of the Mount Arthur North Coal Project Environmental Impact Statement, Appendix 8 Umwelt (2008), of the Mt Arthur Underground Project Environmental Assessment, and specific assessments for the development of Conservation Management Plans (CMP) for Edinglassie, Rous Lench, Balmoral Homesteads, Belmont Homestead and Edderton Homestead Complex.

### 6.2. Impact Assessment

Assessments of historic heritage were undertaken by RPS Australia (2013), Archaeology Australia (2009) and Umwelt (2007) to determine the potential impacts of the open cut and underground mining projects on heritage items identified within the Mt Arthur Coal Complex Environmental Assessment (EA) boundary. The assessments were undertaken in accordance with the NSW Heritage Office guidelines for heritage impact studies (NSW Heritage Office, 2001). Specific impacts on historic heritage items are summarised in Table 1 (Section 8 below), as set out in Section 8.8 Non-Aboriginal Heritage of the EA (Hansen Bailey 2009), and Section 5.4.2 Historic Heritage of Underground EA (Umwelt 2007). These impacts were considered in the EA for Mt Arthur Coal and will be mitigated using the strategies described in Section 9 below.

An additional assessment of blasting on Edinglassie Homestead and Rous Lench was also undertaken as part of the EA process; refer to Appendix G 'Noise and Blasting Assessment' (Resource strategies 2013), of the Mt Arthur Coal Open Cut Environmental Assessment. The noise and blasting assessment concluded that structural impacts from blasting were likely to be negligible.

Assessment results illustrate that thirteen heritage sites were identified as having a potential to be impacted by the projects.

## 7. Historic Heritage Sites and Relics within the Mt Arthur EA Boundary

Table 1 summarises all historic heritage sites and relics recorded within or in close proximity to the Mt Arthur Coal Complex. The figure in Appendix 2 illustrates the locations of the heritage items in relation to the Mt Arthur Coal Complex operations and boundaries.

**Table 1: Summary of historic heritage items impacted by the Mt Arthur Operation and management actions**

Item Name	Location	Within EA Boundary	Significance	Impact	Management Action (see Table 2 for a program for protection and monitoring of heritage items outside the disturbance area of the site)
<b>Edinglassie Homestead</b>	Denman Road	X	State	Possible impact from blasting (Mod 1 2009 concludes impacts as negligible).	Blasting is now well away from the Homestead. Development Consent blasting limits apply. Conservation Management Plan in place.
<b>Rous Lench Homestead</b>	Denman Road	X	State	Possible impact from blasting (Mod 1 2009 concludes impacts as negligible).	Blasting is now well away from the Homestead. Development Consent blasting limits apply. Conservation Management Plan in place.
<b>Balmoral Homestead</b>	Denman Road	X	Local – high	Possible impact from blasting (Mod 1 2009 concludes impacts as negligible).	Blasting is now well away from the Homestead. Development Consent blasting limits apply.
<b>Edderton Homestead Complex</b>	1477 Edderton Road Portion 6 Parish of Wynn	✓	Local - moderate	Potential impact by underground project on some of the complex (No impact on Edderton Homestead).	Draft CMP to be finalised prior to it being affected by subsidence.
<b>Edderton Catena Heritage Site</b>	Within Mt Arthur Coal Complex* (Portion 54 Parish Wynn)	✓	Local - low	Potential impact by underground project.	Full archival recording prior to destruction of the site by subsidence remediation works.
<b>Mills Cottage</b>	Edderton Road	✓	Local - low	Potential impact by underground project.	Full archival recording prior to mining impact. Structural condition inspection by qualified engineer prior to mining. Following undermining, structural condition inspection and recommended remedial works by qualified engineer. If site is found structurally sound it will be left in situ, if found unsafe the site may be demolished.
<b>'Ruins' Site</b>	Edderton Road	✓	Local - low	Potential subsidence impact by underground project.	Prior to impact archival recording and dilapidation survey will be undertaken.

Item Name	Location	Within EA Boundary	Significance	Impact	Management Action (see Table 2 for a program for protection and monitoring of heritage items outside the disturbance area of the site)
Hospital Building	Edderton Road	✓	Local - high	Unlikely to be impacted by the current open cut mine plan.	Prior to open cut impact a Management Plan is to be developed, identifying an appropriate alternative location, provide ongoing management and include a full archival recording.
Belmont Homestead Complex	721 Edderton Road	✓	Local - moderate	Site to be impacted by underground project.	The site is approved to be demolished, subject to mitigation measures as outlined in section 9.3. Archival recording is required prior to any disturbance.
Beer Homestead – slab hut	721 Edderton Road	✓	Local - moderate	Impacted by open cut and underground projects. To be relocated prior to impacts.	Before mining impact a detailed relocation plan including a landscape study and architectural report to determine the most sympathetic method for relocation (See relocation Plan Section 9.2.1).
Farm and Farmhouse	550 Edderton Road	✓	Local - low	Potential impact by underground project.	Site was avoided by Edderton Road realignment.
Fence and yard Site	Off Denman Road	✓	Local - low	Impact avoided.	Site was avoided by Edderton Road realignment.
Windmill, tank stand and trough	North of Mount Arthur	✓	Local - low	Impact avoided.	Site was avoided by Edderton Road realignment.

## 8. Management and Mitigation Measures

There are several mitigation measures that will be implemented to manage the impacts of the project on heritage items listed in Section 7, they include:

1. Implementation of historic heritage management plans as required under Schedule 3, Condition 45A of PA 09\_0062, and Schedule 3, Condition 12 of PA 06\_0091.
2. Avoidance of heritage items where required;
3. Implementation of procedures to minimise impacts on heritage items;
4. Archival recordings and relocation of heritage items;
5. Archival recording and demolition of heritage items.

Table 1 summarises the management actions identified for Historic Heritage Sites in the EA's.

In addition to the mitigation measures or management actions, summarised in Table 1, the following specific management measures will be implemented in accordance with Schedule 3, Condition 45A, clause (b) of PA 09\_0062, and Schedule 3, Condition 12 of PA 06\_0091 as discussed below in Sections 8.1 to 8.3.

### 8.1 Conservation Management Plans

A Conservation Management Plan (CMP) has been finalised for Eddinglassie and Rouse homesteads. In addition to the implementation of the CMP, Mt Arthur Coal will continue to implement the following lease arrangements on the lessee to undertake the following:

- Maintain the properties, including the buildings and grounds, in appropriate condition, consistent with the requirements of the NSW Heritage Council;
- Report any damage to the buildings or grounds immediately to Mt Arthur Coal;
- Seek written approval from Mt Arthur Coal prior to repairing any major damage, except in emergency situations. Any major work on a state listed building requires approval from the Heritage Office;
- Not use the buildings or grounds in a manner likely to cause deterioration or damage to the buildings or grounds;

For additional monitoring and management measures for the Edinglassie Homestead and Rous Lench, please refer to Section 9.3.3 Monitoring, notifying and managing the effects of blasting on potentially affected heritage items, of this HHMP. Appendix 4 contains a summary of management actions from the Conservation Management Plans.

The current draft CMPs for the Belmont Homestead Complex, including the slab hut, and Edderton Homestead Complex will be finalised prior to underground mining impacts on these sites, in accordance with Schedule 2 Condition 12 of PA 06\_0091, to guide ongoing management.

### 8.2 Relocation Plans

All heritage structures will be preserved in situ where possible in order to maintain their historic context. If modelling indicates that mining operations will have a significant impact on the structures listed below, they will be removed as detailed in the following sections. Prior to the relocation of a heritage structure, a relocation plan will be submitted to Department of Planning & Infrastructure. The Department, in consultation with the Heritage Branch, will approve the relocation plan before a heritage structure can be relocated.

### 8.3 Beer Homestead Relocation Plan

The Beer Homestead will remain in its current location for as long as possible before mining impacts necessitate its removal.

Upon planned impact to the Beer Homestead, a detailed plan for the relocation of the Homestead will be developed in accordance with Schedule 3, Condition 45A, clause (b), of Project Approval 09\_0062, and NSW Heritage Office guidelines on archival recording (refer to Section 9.3.1).

The detailed plan will be prepared by appropriately qualified consultants and will include the development of a landscape study to determine the most appropriate location; an archival recording of the structure prior to relocation; and the preparation of an architectural report to determine the most sympathetic method for the relocation of the Beer Homestead. The detailed plan and relocation will occur prior to significant impacts from Mt Arthur Coal underground operations.

## 8.4 Hospital Building Relocation

In accordance with Schedule 2, Condition 12, sub-clause (c) of Project Approval 06\_00911 a relocation plan for the Hospital Building will be developed and implemented prior to any underground mining impact on this building.

## 8.5 Programs/Procedures

In accordance with Schedule 3, Condition 45, clause (c), sub clause 3 of the PA 09\_0062, and Schedule 3, Condition 12 of PA 06\_0091, programs and procedures relating to additional photographic and archival recording, protection and monitoring, notifying and managing blasting, and additional archaeological excavation will be developed and implemented, as outlined below.

### 8.5.1 Photographic and archival recording of potentially affected heritage items

Prior to carrying out operations that could affect identified heritage items, Mt Arthur Coal mine will record the items in accordance with the following NSW Heritage Office guidelines:

- NSW Heritage Office (1998) Heritage Information Series - How to Prepare Archival Records of Heritage Items, Third Edition;
- NSW Heritage Office (2006) Heritage Information Series - Photographic Recording of Heritage Items Using Film or Digital Capture; and
- NSW Heritage Office (2004) Guidelines for Photographic Recording of Heritage Items.

Appropriately qualified consultants will be contracted to undertake the photographic records and prepare the reports for archiving in accordance with relevant government authorities, based on the heritage significance of the items.

### 8.5.2 Protection and monitoring of heritage items outside of disturbance area

A program for the protection and monitoring of heritage items outside of the disturbance area of the site is contained in Table 2.

**Table 2: Program for protection and monitoring of heritage items outside the disturbance area of the site.**

Heritage Item	Program Action	Timing	Responsibility
Eddinglassie Homestead	Separate program contained in the Conservation Management Plan and shown in Appendix 4	See Conservation Management Plan	As outlined in the Conservation Management Plan
Rous Lench Homestead	Separate program contained in the Conservation Management Plan and shown in Appendix 4	See Conservation Management Plan	As outlined in the Conservation Management Plan
Balmoral Homestead	Maintenance actions contained with lease agreement. Annual Inspections with Property Agent	Annual Inspections	Specialist Land
Edderton Catena Heritage site	Area to be signposted.	During 2021	Specialist Land
Mills Cottage	Not impacted by Open Cut project. No action required.	No Action required	N/A
'Ruins' Site	Not impacted by Open Cut project. No action required.	No Action required	N/A
Hospital Building	Condition Report to be completed in 2021. Inspected/monitored annually from 2021 to assess against the Condition Report. Appropriate yard fencing and heritage signage installed 2021. Curtilage maintained to minimise bushfire risk.	Inspected Annually  Yard maintained as required and assessed at least quarterly	Specialist Land



Heritage Item	Program Action	Timing	Responsibility
	Regular inspections (at least quarterly) to assess any further actions.		
Farm and Farmhouse – 550 Edderton Road	Not impacted by Open Cut project. No action required.	No Action required	N/A
Windmill, tank-stand and trough (assessed as little significance)	Not impacted by Open Cut project. No action required.	No Action required	N/A
Fence and Yards (assessed as little significance)	Not impacted by Open Cut project. No action required.	No Action required	N/A

### 8.5.3 Monitoring, notification and managing the effects of blasting on potentially affected heritage items

The EA identified three heritage items that could potentially be impacted by blasting undertaken at Mt Arthur Coal, they include:

- The Edinglassie Homestead;
- Rous Lench; and
- The Balmoral Homestead.

Mt Arthur Coal owns Edinglassie, Rous Lench and Balmoral properties. The following procedures and programs have been developed to monitor, assess and manage the properties:

- Operation of blast monitoring equipment at Edinglassie Homestead to measure vibration and overpressure from all Mt Arthur Coal blasts, in accordance with Mt Arthur Coal's Blast Management Plan, the Project Approval and Environmental Protection Licence 11457;
- Design all blasts at Mt Arthur Coal to maintain ground vibration levels at or below 10mm/s and overpressure levels at or below 120dBL at Edinglassie homestead.
- Conduct structural inspections of homesteads, if any exceedances of the above blasting limits occur;
- Conduct annual pest inspections of Edinglassie Homestead and Rous Lench properties;
- Carry out actions recommended in the pest inspections;
- Conduct building inspections as required based on the recommendations of the structural engineers report to monitor the structural integrity of both homesteads and surrounding buildings;
- Carry out reasonable necessary structural repairs, consistent with the requirements of the NSW Heritage Council, to maintain the structural integrity of both buildings, as recommended in the building inspection reports; and
- Report all monitoring results and actions carried out in the AEMR.

### 8.5.4 Additional archaeological excavation and/or recording of any significant heritage items requiring demolition

In addition to all programs, procedures and Conservation Management Plans outlined in Section 8 of this HHMP, any significant heritage items listed in Table 1 that require demolition in accordance with the Project Approval will have additional archaeological excavation undertaken in compliance with NSW Heritage Office guidelines.

Significant heritage items that have been approved for demolition will be recorded in accordance with Section 8.3.1 Photographic and archival recording of potentially affected heritage items, of this HHMP.

## 9 Incident/Complaint Response

All complaints and disputes are received, handled, responded to and recorded in accordance with procedure MAC-ENC-PRO-042 Community Complaints Handling, Response and Reporting. In addition, the procedure ensures that, where necessary, incidents are appropriately reported in accordance with legal and other requirements. Mt Arthur Coal ensures that all complaints are followed up with the complainant within 48 hours during business hours. If Mt Arthur Coal's response to the complaint is not considered acceptable by the complainant, Mt Arthur Coal will continue to liaise with the complainant to achieve a mutually acceptable outcome.

In the event of an incident that results in material harm to a State listed heritage item, the following protocol will be followed:

1. Check and validate the incident or data which indicates a non-compliance with criterion or conditions.
2. Notify the DPE in writing, as soon as practicable after awareness of the incident.
3. A preliminary investigation will be undertaken to establish the cause(s) and determine whether changes to the Historic heritage management system are required. This will involve the consideration of the incident in conjunction with:
  - (a) Activities being undertaken at the time;
  - (b) Baseline monitoring results;
  - (c) On-going maintenance, general monitoring and blast results for the heritage item or property;

- (d) Comparison of results with heritage items at nearby locations;
- (e) Changes to the land use/activities being undertaken on and surrounding the property / heritage items;
- (f) The prevailing and preceding meteorological conditions (if incident relates to blasting results; and
- (g) Climatic conditions.

A detailed preliminary investigation report would be compiled and submitted to the Heritage Branch of NSW within 7 days of becoming aware of the incident.

4. If the preliminary investigation report recommends further detailed investigations these would be conducted in consultation with the Heritage Branch of DPE.
5. Remedial/compensatory measures will be developed in consultation with the Heritage Branch of DPE, and other regulatory authorities and implemented in response to the outcomes of the investigations.
6. Confirmatory monitoring would be implemented to measure the effectiveness of remedial measures.

## 10 Plan Performance and Continual Improvement

### 10.1 Plan Performance

The performance of the HHMP, programs and documents will be primarily reported annually in the Annual Review, in accordance with Schedule 5 Condition 3 of the Project Approval. The Annual Review must:

- Describe the works that were carried out in the past year, and the works that are proposed to be carried out over the next year;
- Include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against
  - The relevant statutory requirements, limits or performance measures/criteria;
  - The monitoring results of previous years; and
  - The relevant predictions in the EA;
- Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
- Identify any trends in the monitoring data over the life of the project;
- Identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and
- Describe what measures will be implemented over the next year to improve the environmental performance of the project.

### 10.2 Continual Improvement

Mt Arthur Coal strives to continually improve environmental and social performance by applying the principles of best practice to mining operations and community consultation. Improvements to the HHMP will be adopted and implemented, where they are identified as safe, cost-effective and practicable.

## 11 Reporting

Mt Arthur Coal will report on the performance of the HHMP in the Annual Environmental Management Report (AEMR), which will be posted on the company website.

## 12 Review

This HHMP will be reviewed, and if necessary revised to the satisfaction of the Director-General (in consultation with relevant government agencies) in accordance with Condition 4 of Schedule 5 of the Project Approval:

- Within 3 months of the submission of an:
  - Annual review under Condition 3, Schedule 5 of the Project Approval;
  - Incident report under Condition 7, Schedule 5 of the Project Approval;
  - Independent Environmental Audit report under Condition 9, Schedule 5 of the Project Approval;
  - Modification to the conditions of the Project Approval.
- When there are changes to project approval or licence conditions relating to Historic heritage;
- Following significant incidents at Mt Arthur Coal relating to Historic heritage;
- Following the conduct of an independent environmental audit which requires changes to the Historic Heritage Management Plan; or
- If there is a relevant change in technology or legislation.

The HHMP may also be reviewed where the described management is no longer appropriate.

## 13 References

### 13.1 External Documents

- Bill Jordan and Associates (2009), Edinglassie Homestead & Rous Lench Blast Vibration Vulnerability – Assessment for Mt Arthur Coal.
- Carter, C. (South East Archaeology) (2000), A European Heritage Investigation of the Proposed Mount Arthur North Coal Mine, Near Muswellbrook, Upper Hunter Valley, New South Wales. A Report to Dames and Moore. Appendix I in Dames and Moore 2000 Mount Arthur North Coal Project. Environmental Impact Statement. A Report to Coal Operations Australia Limited.
- Dames and Moore (2000), Mount Arthur North Coal Project. Environmental Impact Statement. A Report to Coal Operations Australia Limited.
- Department of Planning, Minister of Planning's Project Approval document (dated 24 September 2010), Application Number 09\_0062, Mt Arthur Coal Mine – Open Cut Consolidation Project.
- Hansen Bailey (2009), Mt Arthur Coal Consolidation Project Environmental Assessment. Prepared for Hunter Valley Energy Coal Pty Ltd.
- NSW Heritage Office (1998), Heritage Information Series - How to Prepare Archival Records Of Heritage Items, Third Edition.
- NSW Heritage Office (2006), Heritage Information Series - Photographic Recording of Heritage Items Using Film or Digital Capture.
- NSW Heritage Office (2004), Guidelines for Photographic Recording of Heritage Items 2004.
- NSW Heritage Office (2001), NSW Heritage Office guidelines for Heritage Impact Studies
- Umwelt (2007) Historic Heritage Assessment Mt Arthur Underground Project, report to Mt Arthur Coal, Vol. 4, Appendix 8
- Umwelt (2008), Mt Arthur Underground Project Environmental Assessment. Prepared for Mt Arthur Coal.
- URS Australia Pty Limited (2000) The Mount Arthur North Coal Project, Environmental Impact Statement. Prepared for Coal Operations Australia Limited.
- Wilkinson Murray Pty Limited (2009), Mt Arthur Coal – Consolidation Project, Noise and Blasting Impact Assessment.

### 13.2 Mt Arthur Coal Internal Documents

- MAC-ENC-MPT-015 Blast Management Plan
- MAC-ENC-PRO-042 Community Complaints Handling, Response and Reporting

## Version Management

**Note:**

- **Major** versions (1.0, 2.0 etc.) are for changes after a significant event / incident or for a periodic review of the document.
- **Minor** versions (1.1, 1.2 etc.) are for small changes to a page or pages within a document.

Date	Version Control		Page(s)	Details
	Major	Minor		
18/03/2011	1.0		All	Draft provided to DP&I and DECCW for comment
17/05/2012	2.0		All	Revisions addressing DP&I comments
18/09/2012	3.0		All	Approved by DP&I 18/09/2012
10/04/2021	4.0		All	Review updates, revisions and document reformatting
24/02/2022		4.1	All	Updated Department Names, Approved by DPE 24/02/2022

|

Appendix 1: Project Approval and EPL Requirements

Consent/Licence	Schedule: Condition	Condition/Requirement	Management Plan Section															
Open Cut Consolidation Project Approval	3.10	<p><b>Blast Impact Assessment Criteria</b>                      10. The Proponent shall ensure that blasts on site do not cause exceedances of the criteria in Table 8.                      Table 8: <i>Blasting impact assessment criteria</i></p> <table border="1" data-bbox="595 475 1836 707"> <thead> <tr> <th data-bbox="595 475 891 539">Location</th> <th data-bbox="891 475 1184 539">Air blast overpressure (dB(Lin Peak))</th> <th data-bbox="1184 475 1480 539">Ground vibration (mm/s)</th> <th data-bbox="1480 475 1836 539">Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td data-bbox="595 539 891 671" rowspan="2">Residence on privately owned land</td> <td data-bbox="891 539 1184 576">120</td> <td data-bbox="1184 539 1480 576">10</td> <td data-bbox="1480 539 1836 576">0%</td> </tr> <tr> <td data-bbox="891 576 1184 671">115</td> <td data-bbox="1184 576 1480 671">5</td> <td data-bbox="1480 576 1836 671">5% of the total number of blasts over a period of 12 months</td> </tr> <tr> <td data-bbox="595 671 891 707">Public Infrastructure</td> <td data-bbox="891 671 1184 707">133</td> <td data-bbox="1184 671 1480 707">10</td> <td data-bbox="1480 671 1836 707">0%</td> </tr> </tbody> </table>	Location	Air blast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance	Residence on privately owned land	120	10	0%	115	5	5% of the total number of blasts over a period of 12 months	Public Infrastructure	133	10	0%	6.2
Location	Air blast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance															
Residence on privately owned land	120	10	0%															
	115	5	5% of the total number of blasts over a period of 12 months															
Public Infrastructure	133	10	0%															
Open Cut Consolidation Project Approval	3:45	<p><b>HERITAGE</b>  <b>Heritage Management Plan</b>                      45A. The Proponent shall prepare and implement a Historic Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>13.2.1 Be prepared in consultation with the Heritage Branch, Council, local historical organisations and relevant landowners;</p> <p>13.2.2 Include the following for the management of other historic heritage on site:</p> <ul style="list-style-type: none"> <li>• Conservation management plan for the Edinglassie and Rous Lench homesteads;</li> <li>• A detailed plan for the relocation of the Beer Homestead, including provision for a landscape study to determine the most appropriate location and an architectural report to determine the most sympathetic method for relocation; and</li> <li>• A program/procedures for:                             <ul style="list-style-type: none"> <li>○ Photographic and archival recording of potentially affected heritage items;</li> <li>○ Protection and monitoring of heritage items outside the project disturbance area;</li> <li>○ Monitoring, notifying and managing the effects of blasting on potentially affected heritage items; and</li> <li>○ Additional archaeological excavation and/or recording of any significant heritage items requiring demolition.</li> </ul> </li> </ul>	5 8.1 8.3 8.5.1 8.5.2 8.5.3 8.5.4															

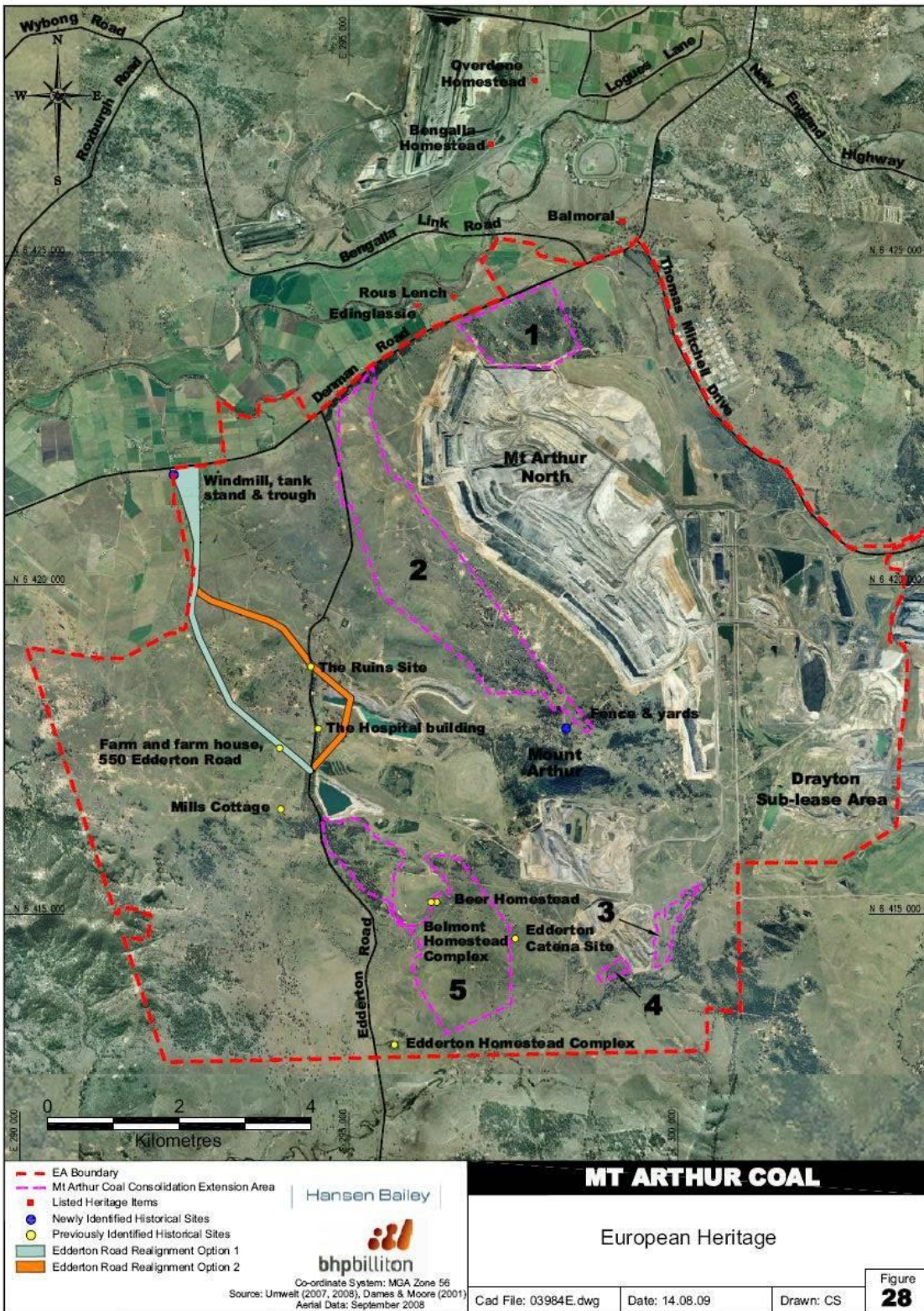
Consent/Licence	Schedule: Condition	Condition/Requirement	Management Plan Section
Open Cut Consolidation Project Approval	5:2	<p><b>Management Plan Requirements</b></p> <p>2. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <ul style="list-style-type: none"> <li>(a) Detailed baseline data;</li> <li>(b) A description of:                             <ul style="list-style-type: none"> <li>• The relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>• Any relevant limits or performance measures/criteria;</li> <li>• The specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;</li> </ul> </li> <li>(c) A description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</li> <li>(d) A program to monitor and report on the:                             <ul style="list-style-type: none"> <li>• Impacts and environmental performance of the project;</li> <li>• Effectiveness of any management measures (see c above);</li> </ul> </li> <li>(e) A contingency plan to manage any unpredicted impacts and their consequences;</li> <li>(f) A program to investigate and implement ways to improve the environmental performance of the project over time;</li> <li>(g) A protocol for managing and reporting any:                             <ul style="list-style-type: none"> <li>• Incidents;</li> <li>• Complaints;</li> <li>• Non-compliances with statutory requirements; and</li> <li>• Exceedances of the impact assessment criteria and/or performance criteria; and</li> </ul> </li> <li>(h) A protocol for periodic review of the plan.</li> </ul>	<p>Section 1 Table 1 Appendix 1</p> <p>Section 8 Section 8 Section 8</p> <p>10.0 &amp; 11.0</p> <p>Section 10 Section 10</p> <p>Section 9 Section 10</p> <p>Section 11 Section 9 Section 9 Section 9 Section 9 Section 12</p>
Open Cut Consolidation Project Approval	5:3	<p><b>Annual Review</b></p> <p>3. By the end of June each year, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:</p> <ul style="list-style-type: none"> <li>(a) Describe the works that were carried out in the past year, and the works that are proposed to be carried out over the next year;</li> <li>(b) Include a comprehensive review of the monitoring results and complaints records of the Project over the past year, which includes a comparison of these results against the                             <ul style="list-style-type: none"> <li>• The relevant statutory requirements, limits or performance measures/criteria;</li> <li>• The monitoring results of previous years; and</li> <li>• The relevant predictions in the EA;</li> </ul> </li> </ul>	<p>11.0 Refer to EMS</p>

Consent/Licence	Schedule: Condition	Condition/Requirement	Management Plan Section
		(c) Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) Identify any trends in the monitoring data over the life of the project; (e) Identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and (f) Describe what measures will be implemented over the next year to improve the environmental performance of the project.	
Open Cut Consolidation Project Approval	5:4	<b>Revision of Strategies, Plans and Programs</b> 4. Within 3 months of the submission of an: (a) Annual review under condition 3 above; (b) Incident report under condition 7 below; (c) Audit under condition 9 below; and (d) Any modification to the conditions of this approval, the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary. <i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i>	Section 12.
Open Cut Consolidation Project Approval	5:7	<b>REPORTING</b> <b>Incident Reporting</b> 7. The Proponent shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Section 9
Open Cut Consolidation Project Approval	5:8	<b>Regular Reporting</b> 8. The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval, and to the satisfaction of the Director-General.	11.0
Open Cut Consolidation Project Approval	5:11	<b>ACCESS TO INFORMATION</b> 11. From the end of December 2010, the Proponent shall: (a) make the following information publicly available on its website: <ul style="list-style-type: none"> <li>• A copy of all current statutory approvals for the project;</li> <li>• A copy of the current environmental management strategy and associated plans and programs;</li> </ul>	Plan available at BHP Mt Arthur Coal website



Consent/Licence	Schedule: Condition	Condition/Requirement	Management Plan Section
		<ul style="list-style-type: none"> <li>• A summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval;</li> <li>• A complaints register, which is to be updated on a monthly basis;</li> <li>• A copy of the minutes of CCC meetings;</li> <li>• A copy of any Annual Reviews (over the last 5 years);</li> <li>• A copy of any Independent Environmental Audit, and the Proponent's response to the recommendations in any audit;</li> <li>• Any other matter required by the Secretary; and</li> </ul> <p>(b) Keep this information up to date, to the satisfaction of the Secretary.</p>	
Underground Project Approval	2:12	<p><b>Non-Aboriginal Heritage</b></p> <p>12. Notwithstanding condition 12 of schedule 2, the Non-Aboriginal Heritage Management Plan must:</p> <p>(a) Be prepared in consultation with the Heritage Office, Council, and local historical organisations;</p> <p>(b) Be submitted prior to carrying out any operations that could affect identified heritage items;</p> <p>(c) Include:</p> <ul style="list-style-type: none"> <li>• conservation management plans for the Belmont Homestead and Edderton Homestead complexes;</li> <li>• Details of the Hospital Building relocation;</li> <li>• A program/procedures for: <ul style="list-style-type: none"> <li>○ Photographic and archival recording of potentially affected heritage items, based on additional heritage research;</li> <li>○ Baseline dilapidation surveys of all potentially affected heritage items;</li> <li>○ Monitoring and managing the effects of subsidence on potentially affected heritage items; and</li> <li>○ Additional archaeological excavation and/or recording of any significant heritage items requiring demolition.</li> </ul> </li> </ul> <p><i>Note: The Non-Aboriginal Heritage Management Plan may form part of the Archaeology and Cultural Heritage Management Plan, as referred to in the Mount Arthur North mine consent (DA 144-05-2000).</i></p>	6.0  Section 8

Appendix 2: Map of Locations of Heritage Items



### Appendix 3: Regulatory Correspondence and Consultation

---



Sarah Bailey  
Manager Approvals, Land, Access & Heritage  
Hunter Valley Energy Coal Pty Ltd  
500 Thomas Mitchell Drive  
Muswellbrook NSW 2333

24/02/2022

Dear Ms Bailey

**Mt Arthur Coal – Open Cut Extension (MP 09\_0062) and  
Mount Arthur Coal Mine Underground Project (MP 09\_0091)  
Historic Heritage Management Plan**

I refer to the Historic Heritage Management Plan (HHMP) submitted in accordance with Condition 45A of Schedule 3 of MP 09\_0062 for the Mt Arthur Open Cut Extension, and Condition 12 of Schedule 3 of MP 06\_0091 for the Mount Arthur Coal Mine Underground Project.

The Department has carefully reviewed the document and is satisfied that it meets the requirements of the conditions of consent, subject to the following changes:

- Since lodgement of the HHMP, the Department has changed its name to the Department of Planning and Environment (DPE). Please update all references to the Department in the HHMP accordingly.

Accordingly, the Secretary has approved the HHMP (Revision 4, dated April 2021).

Please ensure that the approved plan is placed on the project website at the earliest convenience. If you wish to discuss the matter further, please contact Sarah Clibborn on 88376095 or via email at [sarah.clibborn@planning.nsw.gov.au](mailto:sarah.clibborn@planning.nsw.gov.au).

Yours sincerely

A handwritten signature in black ink, appearing to read 'Joe Fittell'.

Joe Fittell  
Team Leader  
Resource Assessments

As nominee of the Secretary

## Appendix 4: Management Actions from Conservation Plans

### PURPOSE

This management program outlines the management measures that will be undertaken in order to maintain the Edinglassie property in a condition appropriate to its heritage significance, according to the details in the Edinglassie Conservation Management Plan, the Mt Arthur Coal Open Cut Consolidation Project Approval, and appropriate legislation.

### OBJECTIVE

The objective of this program is to document the actions that are required to be taken in order to maintain the Edinglassie property, and outline the responsibilities of various personnel in relation to the maintenance of Edinglassie.

### SCOPE

This management program applies to the Edinglassie complex, comprising the Edinglassie homestead, all associated outbuildings, and the Rous-Lench homestead.

### ROLES AND RESPONSIBILITIES

Roles and responsibilities are outlined in the table below. Responsibilities for ensuring this management plan is delivered is shared between the Specialist Property, Mt Arthur Coal, and the licencees of the Edinglassie complex. This is outlined in the tables in section 6.

### PROCEDURE

Action plans are detailed in the following tables (1-3). The tables document actions in the following manner:

Ongoing Actions	These actions are to be completed on an ongoing basis at least annually in order to ensure the ongoing maintenance and safety of the Edinglassie complex.
Short to medium term actions	Actions undertaken over the next 1-5 years to ensure the Edinglassie complex is maintained effectively and does not fall into disrepair
Medium to long term actions	Those actions that are envisaged to be required in the medium to long term (6-15 years) in order to maintain the Edinglassie complex in its current state.
Optimal Heritage Outcomes	Optimal heritage outcomes are not required to be undertaken. These actions are documented for consideration, and would add significant value if undertaken. If in the future, extensive works to Edinglassie were to occur, then these outcomes could be considered.



<b>Table 1: Ongoing Actions – to be completed on an annual basis</b>			
<b>Item</b>	<b>Action</b>	<b>Timing</b>	<b>Responsibility</b>
<b>Pest Control</b>	Monitoring of existing permanent ground stations. Termite and pest report on all buildings.	As recommended by Pest specialist	Specialist Property
<b>Maintain vegetation, including mowing and weed control</b>	Maintain lawns and gardens.	As required.	Licensee
<b>Inspections of all Inventory items</b>	Inspect property and note condition at time of inspection. Complete any minor repairs and maintenance that may be required as a result of the inspection outcome.	Annually	Specialist Property
<b>Onsite Sewage System</b>	Inspect to ensure system is working adequately.	Six monthly	Specialist Property
<b>Fire Protection</b>	Inspect to ensure smoke detectors are adequate and working, and change batteries in all alarms.	Six Monthly	Licensee
<b>Catalogue Items</b>	Review the catalogue of loose items, check they are still stored where listed in the catalogue, and assess whether they require maintenance. Maintain items and update catalogue listing as required.	Annually	Specialist Property
<b>Annual Inspection</b>	Engage a suitably qualified engineer to carry out annual structural inspection of Edinglassie homestead. Ensure that the roof integrity is assessed as part of this inspection. <i>Note that this requirement may be reviewed as blasting activities move away from the homestead.</i>	Annually or as recommended by structural engineer, or upon valid blasting exceedance at Edinglassie monitor.	Specialist Property
	Do annual general condition report including condition of all structures and assessment of general condition, painted surfaces, plumbing and drainage, flooring quality, internal fittings, cabinetry, etc., and implement action plan as appropriate.	Annual	Specialist Property
<b>Maintenance of buildings</b>	Ensure gutters on all buildings are kept free and clear of debris.	Monthly	Specialist Property/Licensee

<b>Table 1: Ongoing Actions – to be completed on an annual basis</b>			
<b>Item</b>	<b>Action</b>	<b>Timing</b>	<b>Responsibility</b>
<b>Use of Property</b>	Consider the occupation of appropriate dwellings to assist in long term conservation. This is preferably through residential use, however an adaptive re-use with minimal impact would also be appropriate, if other factors (such as mining impacts) allow.	Annually	Specialist Property / Environment and Community Manager

<b>Table 2 – short to medium term actions (1-5 years)</b>			
<b>Item</b>	<b>Action</b>	<b>Timing</b>	<b>Responsibility</b>
<b>Complex</b>	Establish a catalogue of loose items, documenting condition, storage location and maintenance requirements.	Complete	Specialist Property
<b>Homestead</b>	Document and construct safe access to the cellar space.	Complete	Specialist Property
	Repair water damage to ceiling in Bed 3 and Stair 2	December 2012	Specialist Property
	Repair loose balustrade to Stair 1	December 2012	Specialist Property
	In butler's pantry: repair and conserve timber floor; document and undertake completion of new ceiling; restore missing timber cupboard joinery, if found.	June 2014	Specialist Property
<b>Servants Quarters</b>	Ensure yard taps are discharging into yard sinks, and that storm water is being diverted away from the building.	Completed	Specialist Property
<b>Meat Safe Creamery</b>	Maintain paint finish, particularly to exterior. Investigation of paint type appropriate for subsequent coverage should be done prior to any work.	June 2014	Specialist Property
<b>Water Tower</b>	Inspect water tank (structural engineer), and action any recommendations for conservation.	June 2013  As required / determined after inspection.	Specialist Property
	Reconstruct missing windows to existing detail.	June 2014	Specialist Property

<b>Table 2 – short to medium term actions (1-5 years)</b>			
<b>Item</b>	<b>Action</b>	<b>Timing</b>	<b>Responsibility</b>
	Remove Cat Claw creeper vine from structure, and reassess structural integrity.	December 2012	Specialist Property
	Repair window sash to working order, and re-glaze to match existing.	June 2013	Specialist Property
<b>Tool Shed</b>	Remove Cat Claw creeper vine from structure, and re-assess physical fabric	June 2013	Specialist Property
<b>Carport</b>	Remove creeper vine from structure.	June 2013	Specialist Property
	Repair loose areas of timber.	June 2013	Specialist Property
<b>Dovecote</b>	Remove creeper vine from structure.	June 2013	Specialist Property
	Repair loose areas of timber.	June 2013	Specialist Property
<b>Hayshed &amp; Silo</b>	Reconstruct and repair weatherboards and other timber joinery where necessary.	Complete	Specialist Property
	Inspect and Restore and repair loose roofing materials where necessary, including roof sheeting, guttering and downpipes. Do not use PVC.	Annual	Specialist Property
<b>Rous Lench</b>	Commission a suitably qualified person to investigate rising damp throughout, and action those recommendations considered necessary to preserve the building.	June 2013	Specialist Property
	Commission a suitably qualified person to assess masonry cracking, and action recommendations considered necessary to preserve the building.	June 2013	Specialist Property
	In conjunction with a heritage professional, consider removal of the concrete to the veranda.	June 2014	Specialist Property
<b>Log Structure (Rous Lench)</b>	Remove Cat Claw creeper from the structure, mindful not to let removal cause any damage or dislodgement of fabric. Seek advice on method of removal from a suitably qualified person.	June 2015	Specialist Property
	Clear interior of overgrowth and rubbish, mindful of the existence of significant moveable heritage items.	June 2015	Specialist Property
	Commission assessment by structural engineer, and action any recommendations.	June 2015	Specialist Property

<b>Table 2 – short to medium term actions (1-5 years)</b>			
<b>Item</b>	<b>Action</b>	<b>Timing</b>	<b>Responsibility</b>
<b>Stable 4</b>	Ensure water from yard taps is adequately drained away from the building.	June 2014	Specialist Property
	Timber in need of re-paint. Maintain existing or similar colour scheme.	June 2015	Specialist Property
<b>Gardeners Cottage</b>	Clear overgrowth to cottage and garage and re-inspect to assess management recommendations.	June 2015	Specialist Property
	Make safe by way of fencing. <i>(Depending on management recommendations following assessment (see above), this fencing may be temporary or permanent. If permanent, fencing should be recommended by heritage architect)</i>	June 2015	Specialist Property

<b>Table 3: medium to long term actions (6 to 15 years)</b>			
<b>Item</b>	<b>Action</b>	<b>Timing</b>	<b>Responsibility</b>
	Consider re-paving veranda to manage lifting pavers.	June 2018	Specialist Property
<b>Butchery &amp; Hanging Safe</b>	Explore further the provenance of the rear northern section of the building.	June 2019	Specialist Property
<b>Carport</b>	Repaint all previously painted areas.	June 2020	Specialist Property
<b>Dovecote</b>	Repaint all previously painted areas.	June 2020	Specialist Property
<b>Tractor Shed</b>	Reconstruct weatherboards where necessary.	June 2020	Specialist Property
<b>Stable 3</b>	Repaint exterior, including repair of any deteriorating timber and rusting door frames	June 2020	Specialist Property
<b>Rous Lench</b>	Investigate options for less intrusive hot water delivery at this site.	June 2019	Specialist Property
<b>Former School Masters Cottage</b>	Undertake a detailed condition report, with conservation recommendations, i.e. opening of verandas.	June 2018	Specialist Property